

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P387175

Luminaire Tested: **GPC-SA2D-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GPC-SA2D-830-U-SLL
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11309 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

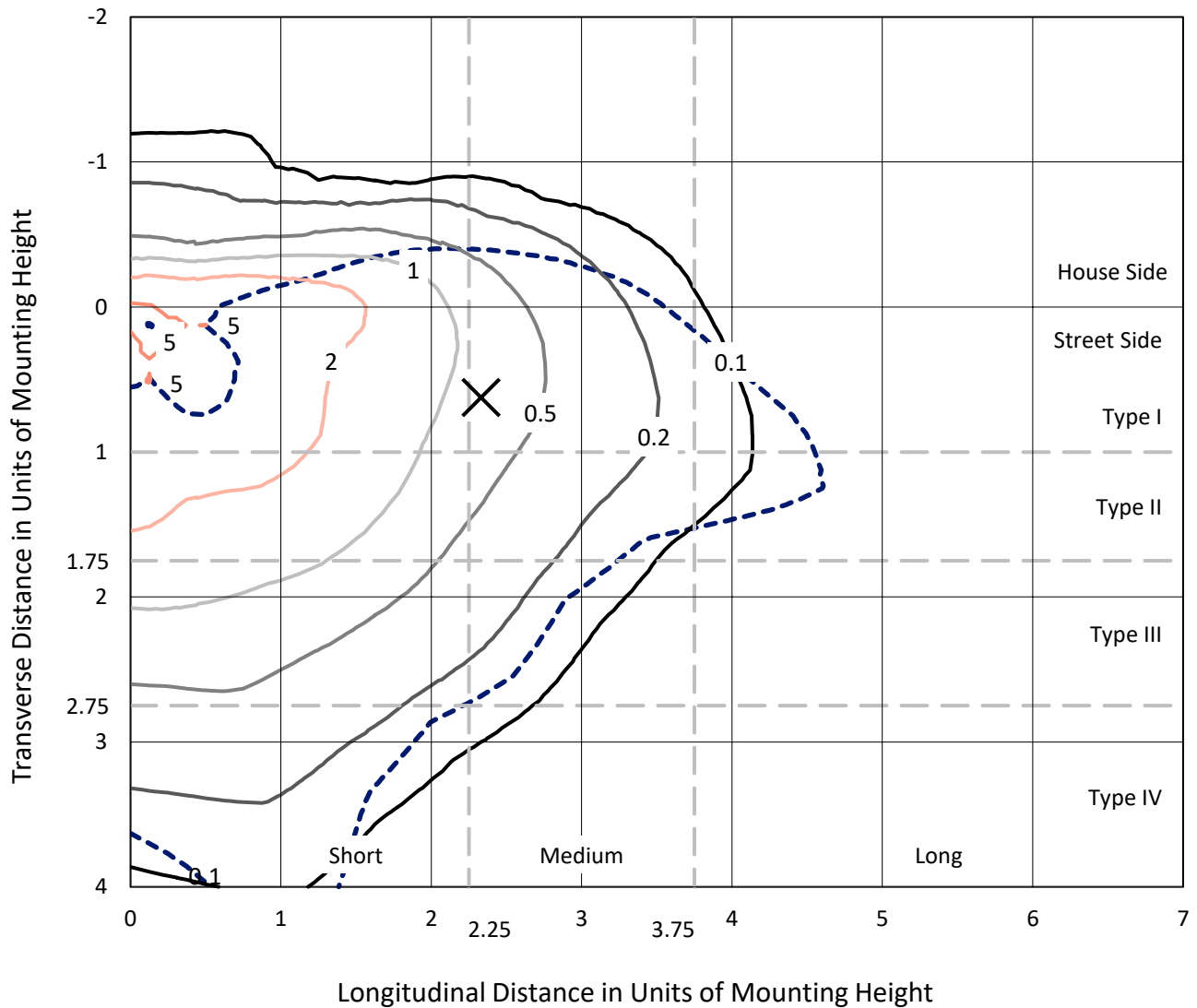
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

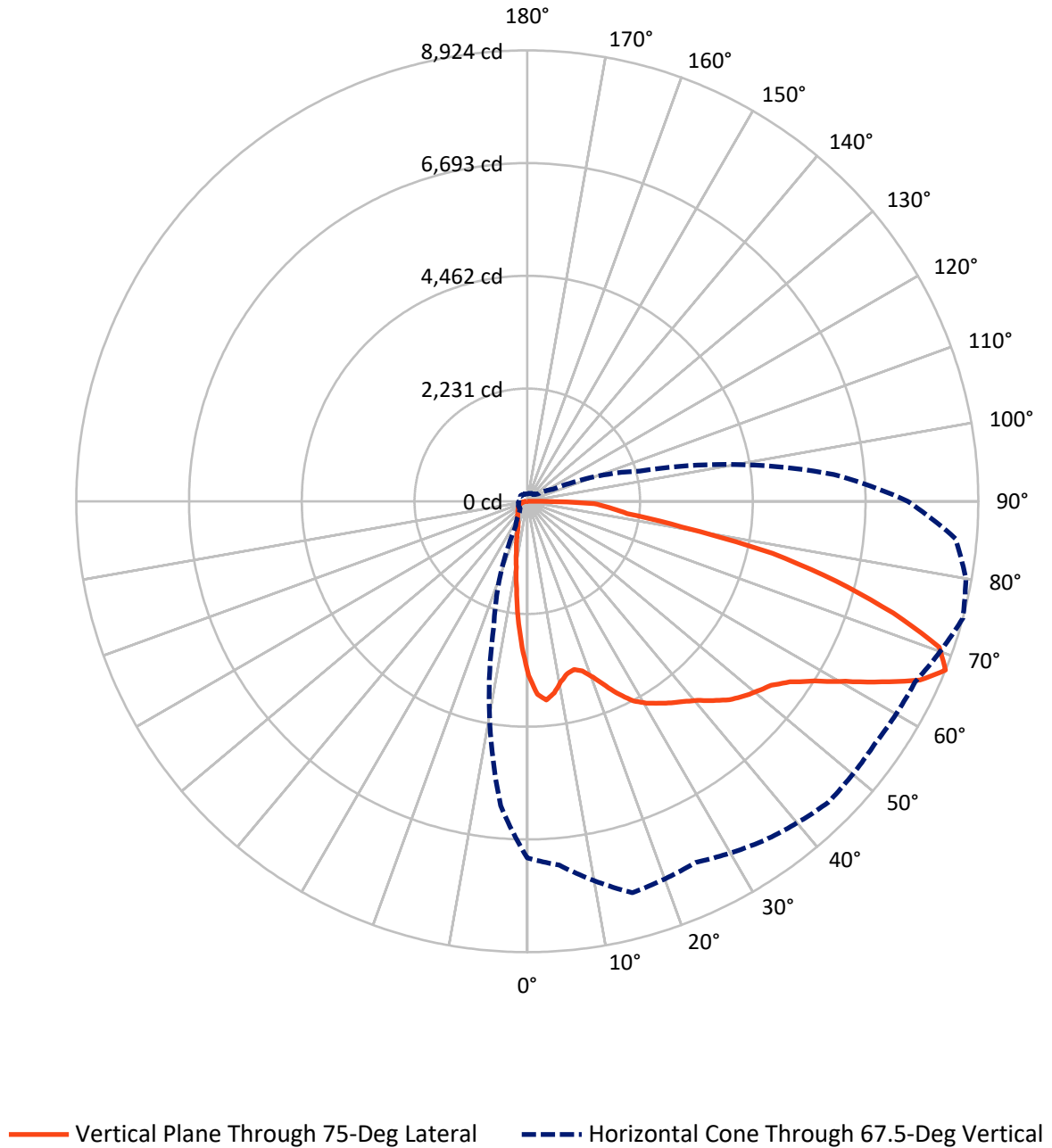
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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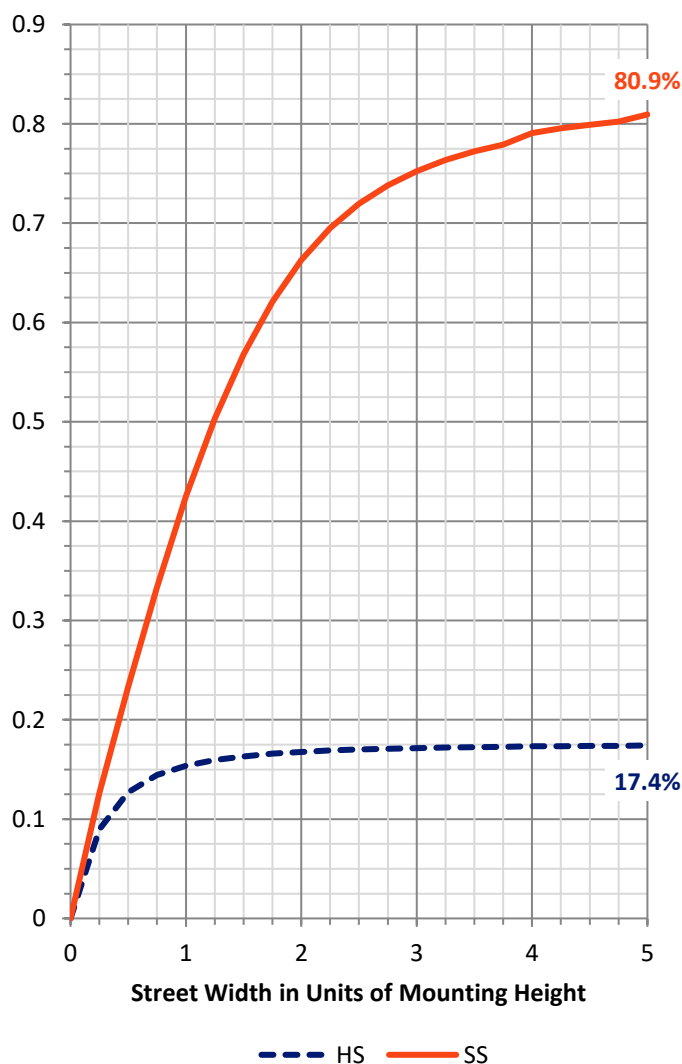
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1991.8	0.0	1991.8
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9317.2	0.0	9317.2
	% Fixture	82.4	0.0	82.4
Total	Lumens	11309.0	0.0	11309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	2.4
10°-20°	552.4	4.9
20°-30°	785.6	6.9
30°-40°	1132.1	10.0
40°-50°	1595.4	14.1
50°-60°	2217.9	19.6
60°-70°	2682.1	23.7
70°-80°	1648.6	14.6
80°-90°	429.0	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11309.0	100.0
0°-180°	11309.0	100.0

Coefficient of Utilization

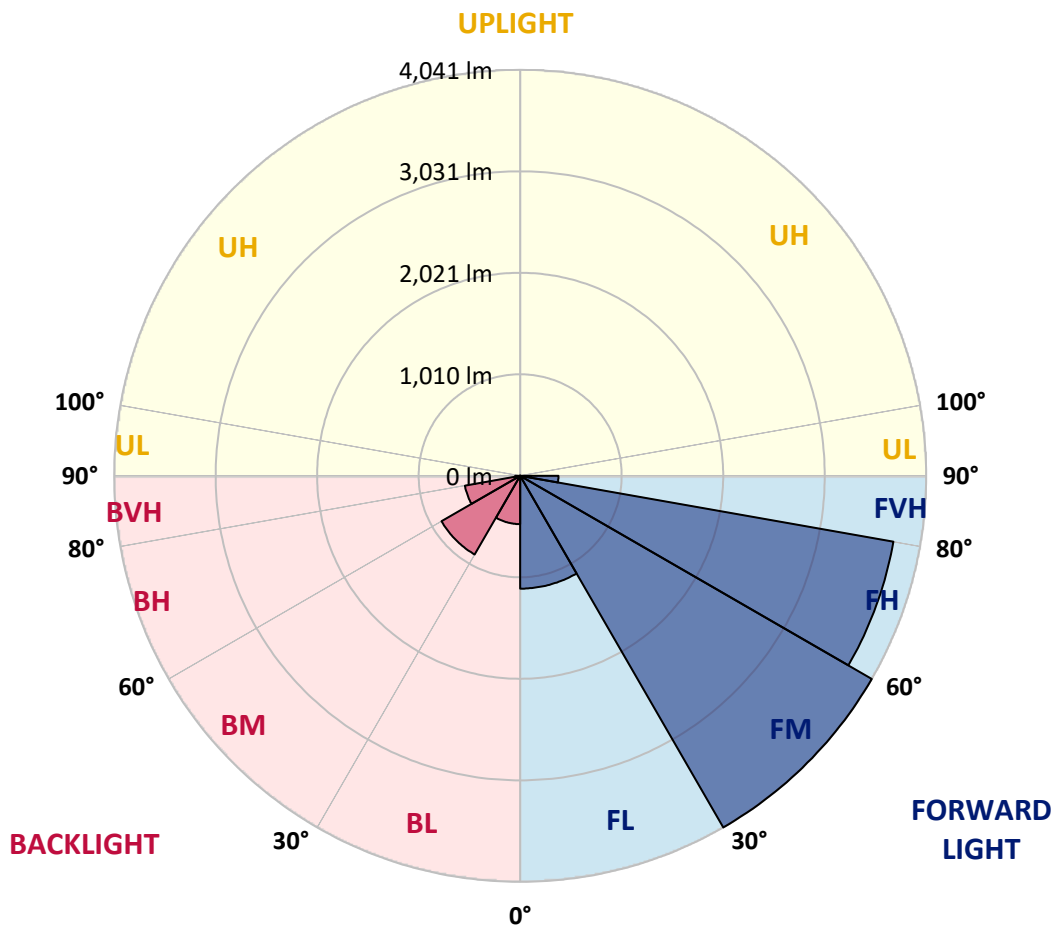


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.9	9.9			
FM (30°-60°)	4041.2	35.7			
FH (60°-80°)	3772.3	33.4			G2/5000
FVH (80°-90°)	380.8	3.4			G3/500
BL (0°-30°)	481.0	4.3	B1/500		
BM (30°-60°)	904.1	8.0	B1/1000		
BH (60°-80°)	558.4	4.9	B2/1000		G2/1000
BVH (80°-90°)	48.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3
2.5°	3672.3	3720.7	3754.2	3787.2	3812.9	3838.3	3875.3	3912.4	3919.6	3926.4	3912.0
5°	3650.6	3768.6	3869.0	3968.9	4061.6	4154.3	4209.9	4265.5	4276.8	4288.1	4253.3
7.5°	3416.9	3590.9	3765.0	3939.1	4098.7	4258.3	4355.5	4452.3	4474.4	4496.1	4439.2
10°	3151.0	3353.6	3567.4	3781.3	3991.5	4201.8	4342.4	4483.0	4511.0	4539.1	4468.1
12.5°	2948.9	3170.0	3398.3	3626.6	3848.7	4070.2	4215.8	4361.4	4396.2	4431.0	4379.5
15°	2871.1	3113.5	3328.2	3543.0	3736.5	3929.6	4049.0	4167.9	4182.3	4196.4	4188.2
17.5°	2948.9	3216.1	3410.5	3604.5	3709.8	3814.7	3862.7	3910.1	3926.0	3941.3	3962.1
20°	3176.3	3464.8	3601.8	3738.3	3733.8	3728.8	3705.8	3682.3	3678.2	3674.1	3732.9
22.5°	3501.0	3836.0	3890.7	3945.0	3817.9	3690.9	3613.5	3535.8	3520.4	3504.6	3567.0
25°	3882.1	4238.9	4228.9	4218.5	3976.6	3734.3	3586.9	3439.5	3422.3	3405.1	3458.5
27.5°	4296.7	4637.6	4572.5	4507.4	4178.7	3850.0	3636.1	3422.3	3405.1	3387.9	3434.9
30°	4620.9	4930.2	4825.7	4721.3	4349.2	3977.1	3723.0	3468.9	3440.8	3412.3	3470.2
32.5°	4895.4	5158.5	5018.3	4878.2	4487.5	4096.9	3822.0	3547.1	3503.2	3459.4	3536.7
35°	5181.1	5386.4	5189.3	4991.7	4611.0	4229.8	3939.1	3647.9	3594.1	3540.3	3646.5
37.5°	5502.6	5673.1	5390.0	5106.5	4749.8	4393.0	4114.5	3835.5	3780.4	3725.2	3860.9
40°	5842.2	5984.1	5606.6	5229.0	4901.7	4574.3	4357.3	4139.8	4087.4	4034.5	4199.1
42.5°	6139.2	6242.8	5808.2	5373.7	5084.8	4795.4	4642.6	4489.3	4488.9	4488.0	4654.8
45°	6363.0	6453.0	5976.4	5499.4	5263.4	5026.9	4947.4	4867.8	4931.5	4995.3	5146.3
47.5°	6548.9	6609.9	6117.5	5624.7	5467.8	5310.9	5322.6	5334.4	5464.2	5593.9	5691.1
50°	6761.4	6712.1	6245.5	5778.4	5730.0	5681.6	5787.4	5892.8	6042.0	6190.8	6256.8
52.5°	6991.5	6860.8	6419.1	5976.9	6031.2	6085.4	6300.6	6515.9	6666.4	6817.0	6841.8
55°	7405.2	7204.9	6738.3	6271.2	6375.7	6479.7	6795.7	7111.3	7228.9	7346.4	7355.5
57.5°	7871.4	7693.7	7185.5	6677.3	6789.4	6901.5	7266.4	7630.8	7757.9	7884.5	7866.9
60°	8050.9	8059.5	7610.0	7160.2	7273.2	7386.2	7741.6	8097.0	8243.0	8388.6	8349.7
62.5°	7870.0	8082.1	7842.0	7601.5	7704.1	7806.3	8154.4	8502.6	8652.2	8801.9	8734.1
65°	7512.4	7722.6	7830.2	7937.8	7971.8	8005.7	8330.8	8655.4	8770.2	8884.6	8850.3
67.5°	7057.5	7227.5	7624.5	8021.0	7952.8	7884.5	8036.9	8189.2	8307.2	8425.3	8405.8
70°	6530.8	6733.3	7262.8	7792.3	7456.8	7120.8	7058.0	6995.1	7122.6	7249.7	7171.0
72.5°	5586.2	5891.9	6456.6	7020.9	6402.8	5784.7	5570.0	5355.2	5516.6	5678.0	5552.8
75°	4219.4	4625.0	5248.9	5872.5	5135.0	4397.6	4110.9	3824.2	3963.0	4101.9	4015.9
77.5°	2934.4	3443.1	4057.5	4672.0	3922.4	3172.2	2959.3	2745.9	2787.5	2828.6	2814.1
80°	2000.7	2335.3	2764.0	3192.1	2693.0	2193.8	2210.5	2226.8	2207.4	2187.5	2216.4
82.5°	1254.7	1490.3	1821.2	2151.8	1886.8	1621.8	1773.8	1925.7	1851.1	1776.0	1804.1
85°	706.7	850.5	1174.2	1497.5	1395.8	1293.6	1382.7	1471.3	1355.5	1239.8	1290.9
87.5°	134.7	224.3	649.7	1074.7	975.7	876.7	761.9	647.0	493.7	340.5	497.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3
2.5°	3897.5	3889.8	3882.1	3854.5	3826.5	3784.9	3750.5	3690.9	3658.3	3609.0	3559.7
5°	4218.1	4169.2	4120.4	4036.3	3951.7	3857.7	3749.6	3629.8	3539.4	3421.8	3304.3
7.5°	4382.2	4268.2	4153.9	3992.4	3830.6	3685.0	3514.1	3354.9	3219.3	3066.4	2913.6
10°	4397.1	4226.2	4054.8	3845.0	3634.8	3458.0	3261.3	3084.5	2921.8	2746.3	2570.4
12.5°	4327.5	4145.7	3963.5	3732.5	3501.0	3300.2	3088.6	2890.6	2710.2	2517.1	2323.6
15°	4180.1	4034.9	3889.3	3672.8	3456.2	3253.6	3048.4	2813.7	2609.8	2412.2	2214.2
17.5°	3982.5	3913.8	3844.6	3688.1	3531.2	3355.8	3156.9	2881.5	2642.8	2428.0	2213.2
20°	3791.2	3816.6	3841.4	3779.0	3716.6	3576.0	3402.4	3093.1	2788.4	2507.6	2226.4
22.5°	3628.9	3750.5	3871.7	3920.1	3968.0	3883.5	3747.8	3390.2	2986.9	2620.2	2253.5
25°	3511.4	3713.0	3914.7	4075.6	4236.1	4198.6	4094.2	3751.0	3250.0	2782.5	2314.5
27.5°	3482.0	3729.3	3976.6	4226.2	4475.3	4510.1	4481.2	4131.2	3563.8	2984.2	2404.1
30°	3528.1	3778.6	4028.6	4332.4	4635.8	4774.6	4813.5	4448.2	3922.4	3219.3	2515.7
32.5°	3614.0	3859.5	4105.0	4436.0	4766.5	4976.3	5100.2	4738.0	4172.4	3396.5	2620.2
35°	3752.8	3982.5	4212.2	4556.7	4901.2	5172.5	5398.6	5037.3	4394.4	3520.4	2645.9
37.5°	3996.1	4193.6	4391.2	4709.5	5027.4	5379.2	5718.7	5367.0	4634.5	3639.8	2644.6
40°	4363.6	4503.4	4642.6	4911.6	5180.2	5622.9	6081.3	5734.5	4899.9	3769.1	2638.3
42.5°	4821.7	4893.6	4965.0	5178.0	5390.9	5877.4	6410.5	6094.0	5153.1	3889.3	2625.6
45°	5296.9	5315.9	5334.9	5469.1	5603.0	6079.1	6634.8	6363.9	5374.2	3993.8	2612.9
47.5°	5787.9	5722.8	5657.7	5711.0	5764.4	6233.7	6794.8	6568.8	5596.2	4109.5	2622.4
50°	6322.8	6141.5	5960.2	5932.1	5904.1	6388.3	6983.4	6829.2	5863.0	4278.2	2693.4
52.5°	6866.3	6567.4	6268.5	6157.8	6046.5	6572.8	7233.4	7153.4	6243.7	4539.5	2834.9
55°	7364.5	6984.3	6604.0	6454.8	6305.6	6855.0	7538.6	7629.5	6731.5	4873.7	3015.4
57.5°	7848.8	7417.9	6987.0	6848.6	6710.3	7269.6	7925.2	8056.8	7224.4	5194.2	3163.7
60°	8310.9	7884.5	7457.7	7346.9	7235.7	7785.0	8343.0	8247.1	7478.5	5344.3	3209.8
62.5°	8666.3	8327.1	7988.0	7929.7	7870.9	8306.3	8664.0	8173.0	7317.1	5196.5	3075.9
65°	8815.9	8622.8	8429.3	8484.0	8538.3	8700.6	8744.0	7955.9	6809.7	4782.3	2754.9
67.5°	8385.9	8425.3	8464.6	8694.3	8923.5	8811.8	8506.2	7528.2	6087.7	4195.4	2303.2
70°	7091.9	7327.9	7563.5	8106.9	8650.0	8402.2	7869.1	6760.5	5218.6	3519.5	1819.9
72.5°	5427.1	5692.5	5957.5	6764.1	7570.3	7341.9	6689.0	5552.8	4184.1	2810.5	1436.5
75°	3929.6	4229.4	4528.7	5418.5	6308.3	5991.4	5003.4	3975.7	3178.1	2145.4	1112.3
77.5°	2799.2	3000.0	3200.7	4079.7	4958.2	4441.9	3330.5	2675.3	2199.7	1491.2	782.2
80°	2245.3	2183.9	2122.4	2612.0	3101.7	3015.8	2202.8	1718.1	1522.4	999.2	476.1
82.5°	1831.6	1681.5	1531.4	1762.0	1992.6	1979.9	1528.7	1260.6	1133.1	694.5	255.9
85°	1341.5	1281.4	1221.2	1425.2	1629.1	1455.0	1035.4	801.2	883.5	511.4	139.3
87.5°	654.3	747.4	840.1	1080.6	1320.7	991.6	314.2	155.5	215.2	141.5	67.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175
 CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175
 CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3
2.5°	3523.1	3486.0	3444.0	3401.9	3354.0	3305.6	3277.1	3248.2	3217.0	3185.8	3150.5
5°	3226.5	3148.7	3060.6	2972.4	2885.1	2797.9	2750.8	2703.8	2654.1	2603.9	2560.5
7.5°	2800.6	2687.1	2565.0	2442.5	2334.0	2225.0	2157.6	2089.8	2028.3	1966.4	1914.4
10°	2425.8	2281.1	2158.5	2035.6	1953.7	1871.9	1809.9	1748.0	1688.3	1628.2	1570.7
12.5°	2178.9	2034.2	1956.4	1878.7	1810.8	1743.0	1671.6	1599.7	1517.8	1435.6	1375.4
15°	2082.6	1951.0	1864.6	1777.8	1687.0	1595.6	1507.9	1420.2	1323.4	1226.7	1158.4
17.5°	2041.0	1868.7	1748.0	1626.8	1507.0	1387.2	1285.4	1183.7	1077.9	972.1	902.9
20°	1997.1	1767.9	1606.0	1443.7	1290.0	1136.2	1020.9	905.6	811.1	716.6	663.7
22.5°	1957.3	1660.7	1457.7	1254.2	1072.5	890.7	777.7	664.2	606.3	548.5	527.2
25°	1941.1	1567.1	1317.5	1068.0	876.3	684.1	603.6	523.1	501.0	478.4	467.5
27.5°	1943.8	1483.5	1199.5	915.1	742.4	569.7	514.5	459.4	445.8	431.8	425.0
30°	1954.2	1392.6	1088.3	784.0	641.6	499.2	463.4	427.3	412.8	398.3	389.7
32.5°	1965.9	1311.2	1002.4	693.1	576.9	460.3	430.9	401.1	387.0	373.0	364.4
35°	1945.6	1244.8	943.6	642.5	535.3	427.7	402.9	377.5	362.2	346.8	338.7
37.5°	1911.2	1177.8	898.0	617.6	508.2	398.3	380.3	361.7	345.9	329.6	321.9
40°	1880.0	1121.3	864.0	606.3	493.3	379.8	364.4	349.1	332.8	316.0	307.0
42.5°	1854.7	1083.3	830.6	577.8	479.7	381.2	359.5	337.3	321.5	305.6	295.7
45°	1835.7	1058.5	804.4	550.3	467.1	383.9	356.3	328.7	312.9	296.6	284.9
47.5°	1833.9	1045.4	785.8	526.3	443.1	359.5	348.2	336.8	313.8	290.3	276.7
50°	1858.8	1024.1	764.1	503.7	420.0	336.4	351.8	366.7	327.4	287.6	270.4
52.5°	1910.8	986.6	729.8	472.9	392.0	310.6	334.6	358.1	324.2	289.8	267.7
55°	1973.6	931.4	677.8	423.7	354.9	285.8	307.0	327.8	306.6	284.9	258.2
57.5°	2012.9	861.8	612.2	362.6	313.3	264.1	276.3	288.0	279.4	270.8	243.7
60°	1989.4	769.1	538.5	307.5	276.7	246.0	243.7	241.0	253.7	266.3	235.1
62.5°	1874.6	673.2	473.4	273.5	250.5	227.0	222.0	216.6	237.4	257.7	224.7
65°	1680.6	606.3	432.2	258.2	232.4	206.6	201.2	195.8	202.1	208.4	193.1
67.5°	1434.2	565.2	408.7	252.3	221.1	189.4	183.1	176.8	175.4	174.1	168.6
70°	1180.1	539.9	393.4	246.9	208.9	170.5	164.6	158.7	156.9	154.6	150.6
72.5°	986.6	536.7	391.6	246.4	198.9	151.5	146.0	140.6	138.4	135.6	132.5
75°	808.0	503.7	371.7	239.6	185.4	130.7	125.7	120.7	118.9	116.7	113.9
77.5°	599.5	416.9	312.4	208.0	158.7	109.4	104.4	99.0	98.6	97.7	95.4
80°	388.8	301.6	223.4	145.1	115.7	85.9	81.8	77.3	77.8	78.2	76.4
82.5°	216.1	175.9	136.5	97.2	79.1	61.0	59.2	57.0	58.3	59.2	57.0
85°	113.9	88.6	73.2	57.9	45.7	33.5	33.5	33.0	34.8	36.6	34.8
87.5°	49.3	31.2	26.7	21.7	12.2	2.3	2.7	2.7	3.6	4.5	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175

CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3
2.5°	3114.8	3081.8	3048.4	3011.7	3018.5	2990.5	2962.4	2944.8	2927.2	2921.8	2916.3
5°	2517.1	2479.6	2441.6	2407.7	2437.1	2417.2	2397.3	2394.6	2391.4	2391.4	2390.9
7.5°	1862.4	1822.1	1781.4	1753.4	1782.4	1778.7	1775.1	1794.6	1814.0	1829.8	1845.2
10°	1513.3	1464.5	1415.2	1373.6	1366.4	1345.6	1324.3	1328.9	1332.9	1350.1	1367.3
12.5°	1315.3	1257.0	1198.6	1149.8	1127.6	1093.3	1058.5	1036.8	1015.1	1017.3	1019.1
15°	1089.7	1033.1	976.2	934.1	920.1	893.4	866.8	839.6	812.1	800.7	789.0
17.5°	833.3	788.1	742.4	714.4	714.4	706.7	699.0	685.5	671.4	660.1	648.4
20°	610.8	586.9	562.5	550.7	554.3	554.8	554.8	561.6	568.3	564.7	561.1
22.5°	505.5	496.9	488.3	483.3	485.2	485.6	486.1	492.4	498.3	502.8	506.9
25°	456.2	450.8	445.4	443.6	447.6	448.1	448.1	452.1	456.2	460.7	465.3
27.5°	417.8	415.5	413.3	410.1	414.2	414.2	413.7	418.2	422.3	426.4	430.0
30°	381.2	382.1	382.5	381.6	384.3	386.1	387.5	390.7	393.4	396.5	399.7
32.5°	355.4	354.0	352.7	351.8	357.6	360.8	364.0	367.1	369.9	371.2	372.6
35°	330.5	327.4	324.2	321.9	327.4	331.4	335.5	341.4	346.8	347.7	348.6
37.5°	313.8	309.7	305.6	302.9	305.2	307.0	308.8	315.1	321.5	325.1	328.3
40°	298.0	293.9	289.8	287.6	288.9	289.4	289.8	293.0	295.7	302.5	308.8
42.5°	285.3	280.3	275.4	272.6	273.5	274.5	274.9	274.5	274.0	280.3	286.7
45°	272.6	267.2	261.8	258.6	259.1	259.1	259.1	258.2	256.8	260.0	263.1
47.5°	262.7	256.4	250.0	246.9	246.0	245.1	244.2	243.7	242.8	245.1	246.9
50°	252.7	246.0	238.7	235.1	232.9	232.0	231.0	230.6	229.7	232.0	233.8
52.5°	245.1	236.9	228.8	222.9	220.6	219.3	217.9	218.4	218.4	219.3	219.7
55°	231.5	224.3	216.6	212.5	208.4	207.5	206.6	208.0	208.9	208.9	208.9
57.5°	216.6	209.8	202.6	199.8	196.2	196.2	195.8	197.6	198.9	199.8	200.8
60°	203.5	195.8	188.1	185.8	184.5	184.0	183.6	185.8	187.6	189.4	191.3
62.5°	191.3	183.1	175.0	172.3	171.8	172.3	172.3	174.5	176.3	178.1	180.0
65°	177.7	169.6	161.0	158.3	159.2	160.5	161.9	163.7	165.0	166.8	168.6
67.5°	162.8	156.0	148.8	146.0	146.5	148.3	150.1	151.5	152.4	154.2	156.0
70°	146.5	140.6	134.7	132.9	132.5	134.7	136.5	137.5	138.4	140.6	142.4
72.5°	128.9	123.9	118.9	117.6	118.0	119.4	120.7	122.1	123.0	125.2	127.1
75°	110.8	106.3	101.7	100.8	101.7	103.1	104.4	105.3	106.3	109.0	111.2
77.5°	93.1	88.2	82.7	82.3	83.6	85.0	85.9	87.3	88.6	92.2	95.9
80°	74.6	69.2	63.3	62.8	64.2	65.6	66.9	68.3	69.6	74.2	78.2
82.5°	54.7	48.4	42.0	41.1	45.7	47.0	48.4	50.6	52.4	56.5	60.6
85°	33.0	26.7	20.3	19.9	24.0	26.2	28.5	31.2	33.5	37.1	40.7
87.5°	3.6	1.8	0.0	0.0	0.5	2.3	4.1	6.3	8.6	12.2	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175
 CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175

CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3
2.5°	2896.4	2876.1	2896.9	2917.2	2925.8	2934.4	2912.3	2889.7	2924.9	2959.7	2968.8
5°	2372.9	2354.3	2368.3	2381.9	2351.6	2321.3	2318.1	2314.5	2340.8	2367.0	2371.0
7.5°	1839.3	1833.4	1846.6	1859.7	1821.2	1782.4	1763.4	1744.4	1750.7	1757.0	1756.1
10°	1371.4	1375.0	1391.2	1407.1	1377.2	1347.4	1334.3	1321.2	1335.6	1349.7	1362.8
12.5°	1027.3	1035.0	1052.1	1068.9	1056.7	1044.0	1045.4	1046.7	1063.4	1079.7	1094.2
15°	798.0	807.1	819.3	831.0	831.5	831.5	843.2	854.6	853.2	851.8	861.8
17.5°	660.6	672.3	673.7	675.1	675.5	676.0	675.1	674.1	667.4	660.6	668.3
20°	565.6	569.7	573.3	576.5	572.4	567.9	556.6	545.3	540.8	536.2	543.5
22.5°	514.5	521.8	518.2	514.1	505.9	497.4	488.8	479.7	479.3	478.4	482.4
25°	471.6	477.5	471.1	464.8	458.9	453.0	447.2	441.3	440.8	440.4	442.2
27.5°	435.9	441.3	435.4	429.5	424.6	419.6	415.1	410.5	409.6	408.7	409.2
30°	405.1	410.1	405.1	399.7	396.1	392.0	388.8	385.7	385.2	384.8	384.8
32.5°	377.5	382.5	378.9	375.3	372.1	368.9	366.7	364.4	362.2	359.9	354.9
35°	353.6	358.6	356.3	353.6	350.0	346.3	342.3	337.8	331.9	325.5	322.8
37.5°	333.2	338.2	335.9	333.7	328.7	323.7	316.5	308.8	307.0	304.7	304.3
40°	317.0	324.6	320.1	315.1	307.5	299.8	296.2	292.5	291.6	290.7	289.8
42.5°	298.9	310.6	302.5	294.3	287.1	279.9	279.0	278.1	277.6	277.2	277.2
45°	276.3	288.9	280.8	272.2	268.1	264.1	264.1	264.1	264.5	264.5	265.4
47.5°	255.0	262.7	258.6	254.6	252.3	250.0	250.5	250.9	252.3	253.2	255.5
50°	236.9	239.6	240.5	241.0	239.6	238.3	239.2	239.6	241.0	241.9	243.7
52.5°	223.8	227.9	227.9	227.4	227.4	227.4	228.3	229.2	230.6	232.0	233.8
55°	215.2	221.1	219.3	217.5	217.9	217.9	218.8	219.7	221.1	222.0	224.7
57.5°	207.1	213.4	211.6	209.8	209.8	209.8	210.2	210.7	212.1	213.0	214.8
60°	197.6	203.9	202.1	199.8	200.3	200.8	201.2	201.2	202.1	202.6	202.6
62.5°	186.3	192.6	190.8	188.5	189.9	190.8	190.8	190.8	191.7	192.2	190.8
65°	174.5	180.4	178.6	176.8	178.6	180.0	180.9	181.3	180.9	180.4	179.0
67.5°	161.9	167.7	165.9	163.7	165.9	167.7	169.6	170.9	169.6	168.2	166.4
70°	148.3	154.2	151.9	149.7	151.9	154.2	156.0	157.8	156.0	154.2	153.7
72.5°	133.8	140.6	137.9	135.2	137.9	140.6	141.5	142.4	141.1	139.7	138.8
75°	118.0	124.8	122.5	119.8	122.1	124.3	124.8	125.2	125.2	124.8	122.1
77.5°	101.3	106.7	105.3	104.0	105.3	106.7	106.7	106.7	107.2	107.2	103.5
80°	81.4	84.6	85.0	85.5	85.9	86.4	85.9	85.5	84.6	83.6	81.4
82.5°	60.6	60.6	64.2	67.4	67.4	66.9	66.5	65.6	63.8	61.5	56.5
85°	38.4	36.2	42.0	47.5	47.5	47.0	46.1	44.8	41.1	37.1	33.0
87.5°	13.1	10.9	16.7	22.6	23.1	23.1	22.2	21.3	17.6	13.6	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175
 CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175
 CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3
2.5°	2982.3	2988.2	2993.6	3038.0	3081.8	3133.4	3184.9	3224.2	3263.1	3303.4	3343.6
5°	2385.1	2392.3	2399.5	2453.3	2506.7	2578.6	2650.5	2712.4	2774.4	2847.2	2919.9
7.5°	1767.9	1783.7	1799.1	1856.5	1913.5	1990.8	2067.7	2148.6	2229.1	2324.0	2419.0
10°	1388.5	1418.4	1447.8	1506.5	1565.3	1641.7	1717.7	1802.2	1886.8	1980.4	2073.5
12.5°	1124.0	1163.8	1203.2	1273.7	1344.2	1435.6	1526.4	1620.5	1714.1	1796.4	1878.7
15°	888.0	931.4	974.4	1049.0	1123.6	1224.0	1323.9	1426.5	1528.7	1627.3	1725.8
17.5°	692.7	728.4	763.7	827.0	889.8	987.0	1084.2	1191.9	1299.5	1419.7	1539.6
20°	558.9	573.8	588.7	634.4	679.6	758.7	837.4	947.2	1057.1	1200.9	1344.7
22.5°	489.7	497.4	504.6	526.7	548.5	599.5	650.2	747.4	844.2	1001.0	1157.5
25°	448.1	454.0	459.8	474.3	488.8	513.2	537.6	605.9	674.1	828.3	982.1
27.5°	410.5	419.6	428.2	435.0	441.3	458.0	474.3	519.1	563.8	707.6	850.9
30°	383.4	386.6	389.7	400.1	410.1	427.3	444.5	475.7	506.9	628.5	749.7
32.5°	351.8	356.3	360.8	371.7	382.5	398.3	414.2	439.5	464.4	568.3	671.9
35°	323.3	327.8	332.3	343.2	353.6	370.8	387.5	408.7	429.5	520.0	610.4
37.5°	305.6	310.2	314.7	324.2	333.2	350.4	367.1	383.9	400.1	483.8	567.4
40°	290.7	295.3	299.8	308.8	317.4	334.1	350.4	364.4	378.4	456.7	534.9
42.5°	277.6	282.6	287.6	296.6	305.2	320.1	335.0	353.6	371.7	433.2	494.2
45°	266.8	271.7	276.3	286.2	296.2	310.6	325.1	350.9	376.6	420.9	465.3
47.5°	256.8	262.2	267.2	278.1	288.9	307.0	324.6	346.3	367.6	411.5	455.3
50°	247.3	253.7	260.0	273.1	285.8	316.0	345.9	349.1	351.8	403.8	455.3
52.5°	238.3	245.5	252.7	269.0	284.9	320.1	355.4	344.1	332.3	389.3	446.3
55°	229.2	235.6	241.4	261.3	281.2	307.0	332.8	317.9	302.5	362.2	421.9
57.5°	217.0	223.8	230.1	251.4	272.6	290.7	308.4	294.8	280.8	331.4	381.6
60°	204.4	212.1	219.7	246.9	273.5	270.4	266.8	264.1	260.9	297.1	333.2
62.5°	193.1	201.2	209.3	244.6	279.9	258.2	236.5	238.7	240.5	267.2	293.9
65°	181.8	189.9	197.6	215.2	232.9	224.3	215.7	219.3	222.5	248.7	274.9
67.5°	169.1	176.3	183.1	189.0	194.9	195.8	196.7	200.3	203.9	235.1	265.9
70°	155.1	161.0	166.8	170.9	174.5	176.3	177.7	182.2	186.7	220.6	254.6
72.5°	139.3	144.2	148.8	152.4	156.0	157.3	158.3	162.8	167.3	203.5	239.6
75°	122.1	126.1	129.8	132.9	136.1	137.9	139.7	142.9	146.0	185.4	224.3
77.5°	103.1	107.2	110.8	113.5	115.7	117.6	118.9	123.0	127.1	160.1	192.6
80°	80.5	85.5	90.0	92.2	94.0	94.5	94.5	98.1	101.7	125.2	148.3
82.5°	57.0	62.4	67.4	69.2	71.0	71.0	71.0	75.1	79.1	95.0	110.3
85°	33.5	39.3	44.8	46.6	48.4	49.3	49.7	51.5	52.9	64.2	75.1
87.5°	10.4	15.4	19.9	20.8	21.7	23.5	25.3	25.8	25.8	33.5	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175
 CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175

CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3	3445.3
2.5°	3389.7	3435.8	3489.6	3543.0	3588.7	3634.3	3672.3
5°	3012.6	3105.3	3218.8	3331.9	3432.7	3533.5	3650.6
7.5°	2538.8	2658.6	2805.6	2952.5	3094.9	3236.9	3416.9
10°	2195.6	2317.2	2472.8	2627.9	2787.9	2947.5	3151.0
12.5°	1977.7	2076.2	2226.8	2377.4	2565.5	2753.1	2948.9
15°	1833.9	1941.5	2088.0	2234.5	2440.2	2645.9	2871.1
17.5°	1680.6	1821.2	2008.9	2196.5	2440.2	2683.5	2948.9
20°	1520.1	1695.1	1938.3	2181.6	2509.9	2837.7	3176.3
22.5°	1360.1	1562.6	1874.6	2186.1	2615.2	3043.8	3501.0
25°	1215.8	1449.6	1835.7	2221.4	2768.5	3315.1	3882.1
27.5°	1106.4	1361.4	1819.9	2277.9	2962.9	3647.9	4296.7
30°	1009.2	1268.7	1800.9	2333.1	3150.1	3966.7	4620.9
32.5°	925.1	1178.3	1764.3	2349.8	3280.8	4211.7	4895.4
35°	859.1	1107.8	1702.8	2297.8	3362.6	4427.4	5181.1
37.5°	802.1	1036.8	1632.7	2228.6	3435.4	4642.2	5502.6
40°	747.8	960.8	1572.6	2183.9	3535.8	4887.7	5842.2
42.5°	696.3	898.4	1524.2	2149.9	3628.9	5107.4	6139.2
45°	657.9	850.5	1481.2	2111.5	3689.0	5266.6	6363.0
47.5°	638.9	822.0	1458.2	2093.9	3749.2	5404.0	6548.9
50°	636.2	817.0	1484.4	2151.8	3879.4	5606.6	6761.4
52.5°	635.7	825.2	1559.9	2294.6	4121.3	5947.5	6991.5
55°	626.2	830.1	1649.9	2469.2	4445.9	6422.3	7405.2
57.5°	597.3	813.0	1742.6	2671.7	4789.1	6906.1	7871.4
60°	552.5	771.4	1819.0	2866.1	5019.7	7172.8	8050.9
62.5°	496.5	698.6	1844.3	2989.6	5013.4	7037.2	7870.0
65°	448.5	622.2	1761.1	2899.6	4759.7	6619.4	7512.4
67.5°	406.0	545.7	1553.1	2560.0	4303.5	6046.5	7057.5
70°	375.3	495.6	1285.0	2074.4	3732.5	5390.0	6530.8
72.5°	355.8	471.6	1047.6	1623.2	3028.9	4434.2	5586.2
75°	329.2	434.1	822.0	1209.5	2318.1	3426.8	4219.4
77.5°	279.4	365.8	619.4	873.1	1701.0	2528.4	2934.4
80°	215.7	282.6	425.9	569.2	1170.6	1772.0	2000.7
82.5°	153.7	197.1	258.2	319.2	777.7	1235.7	1254.7
85°	95.0	114.8	147.9	180.9	514.5	848.2	706.7
87.5°	51.1	61.0	78.2	95.0	164.6	234.2	134.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387175
 CATALOG NUMBER: GPC-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

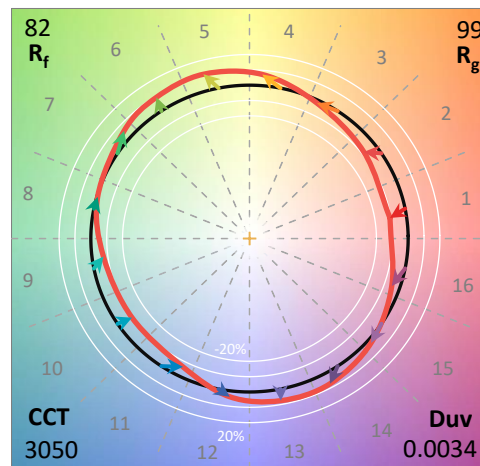
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

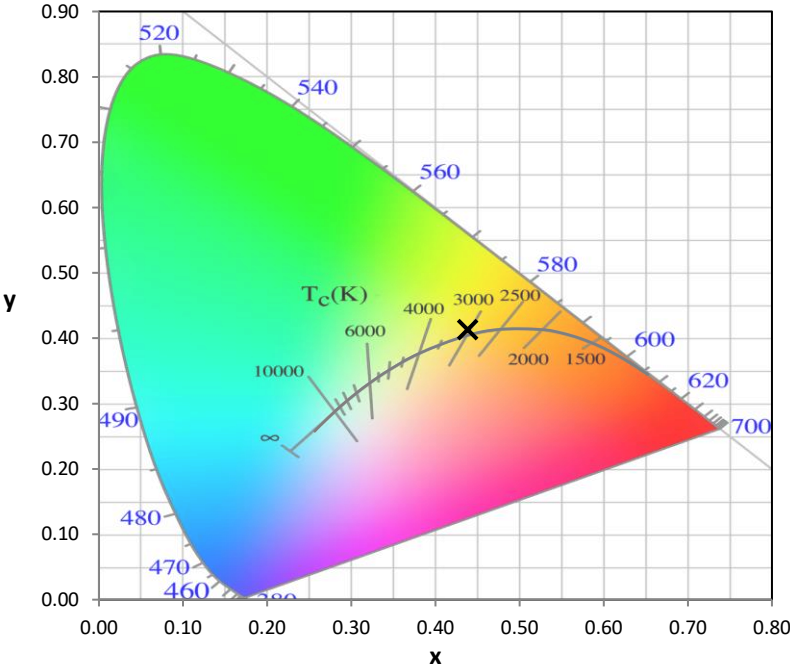
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

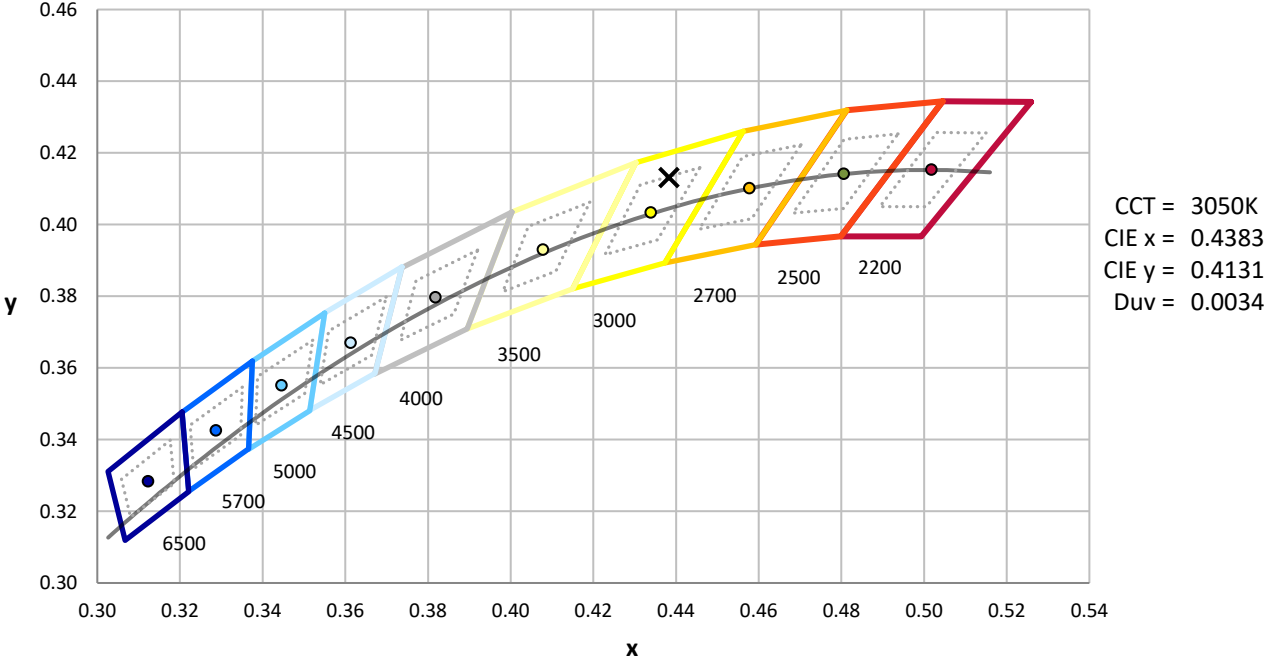
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



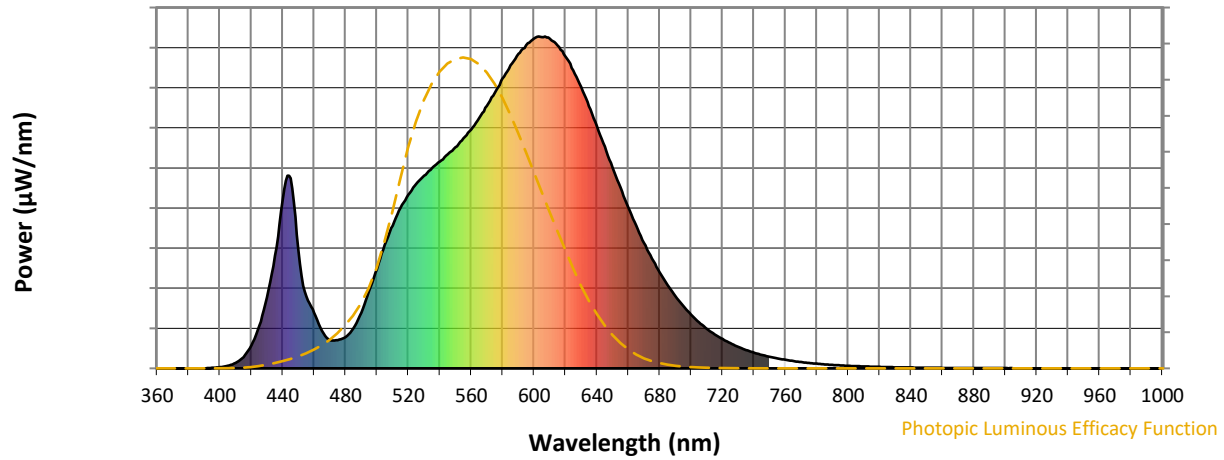
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

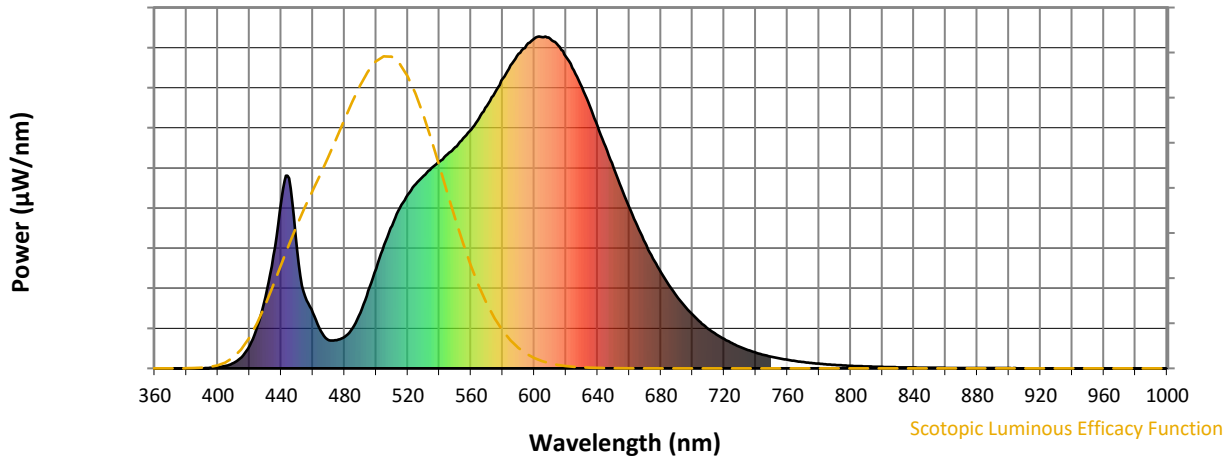


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



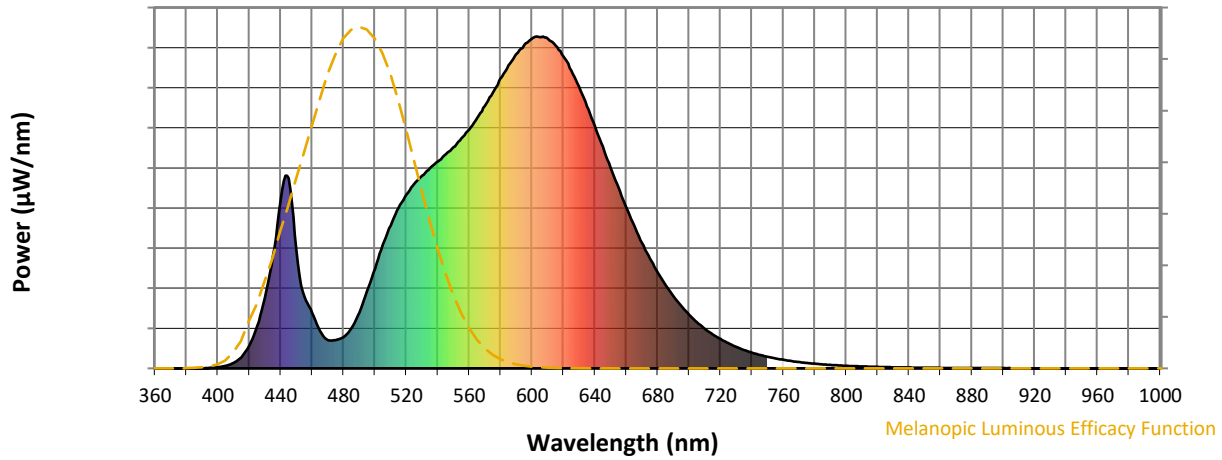
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



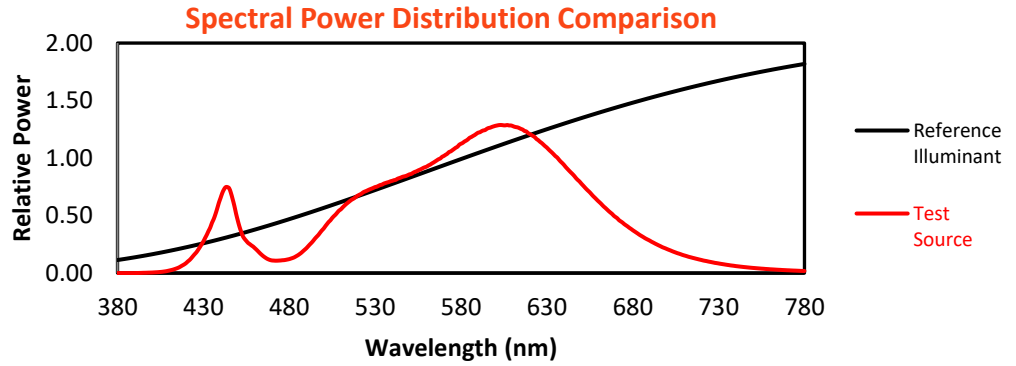
Melanopic Lumens: NR

M/P: 2.32

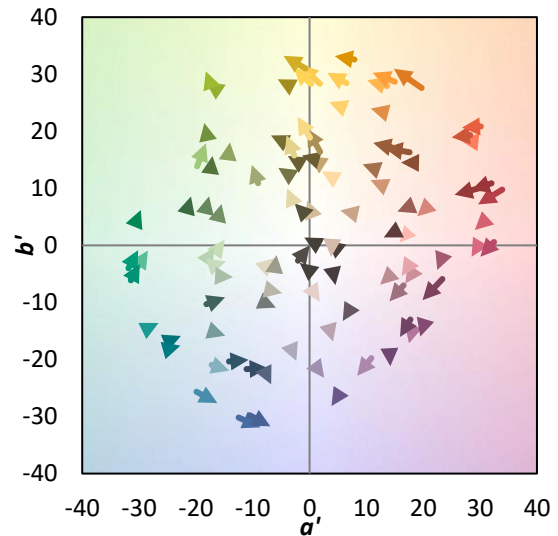
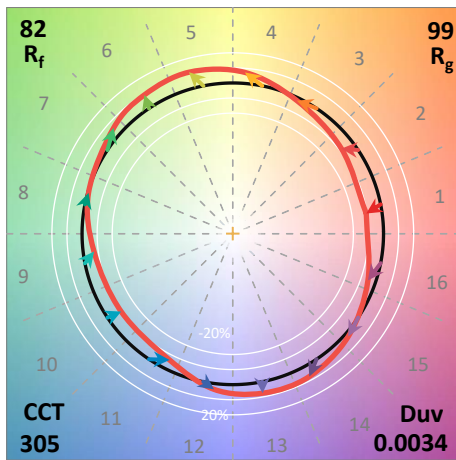
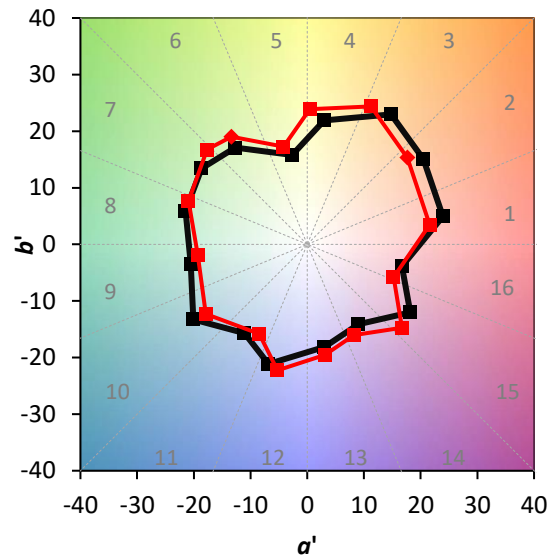
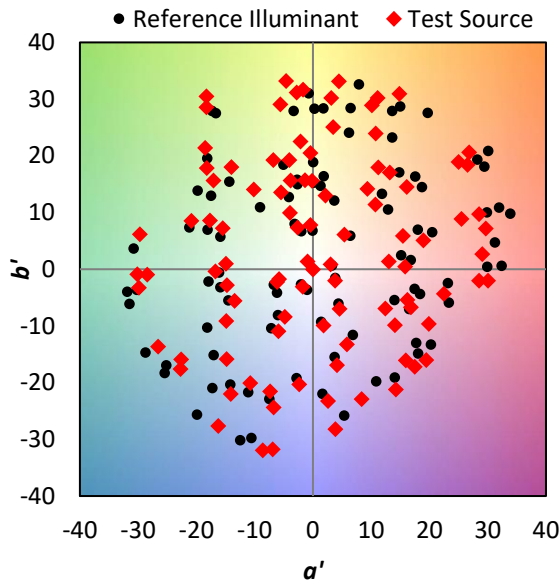
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

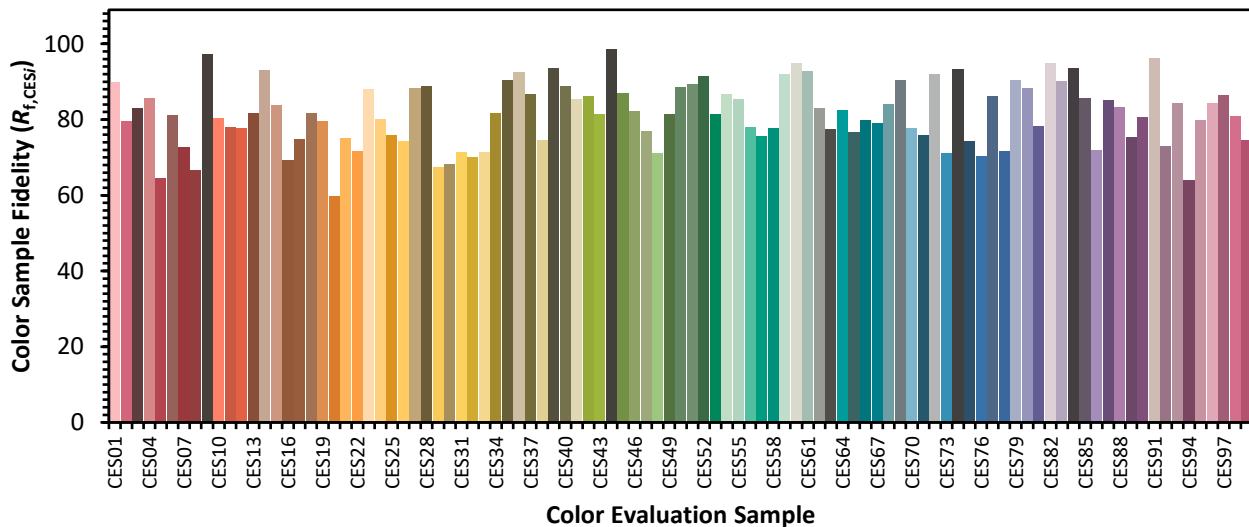


Color Vector Graphics

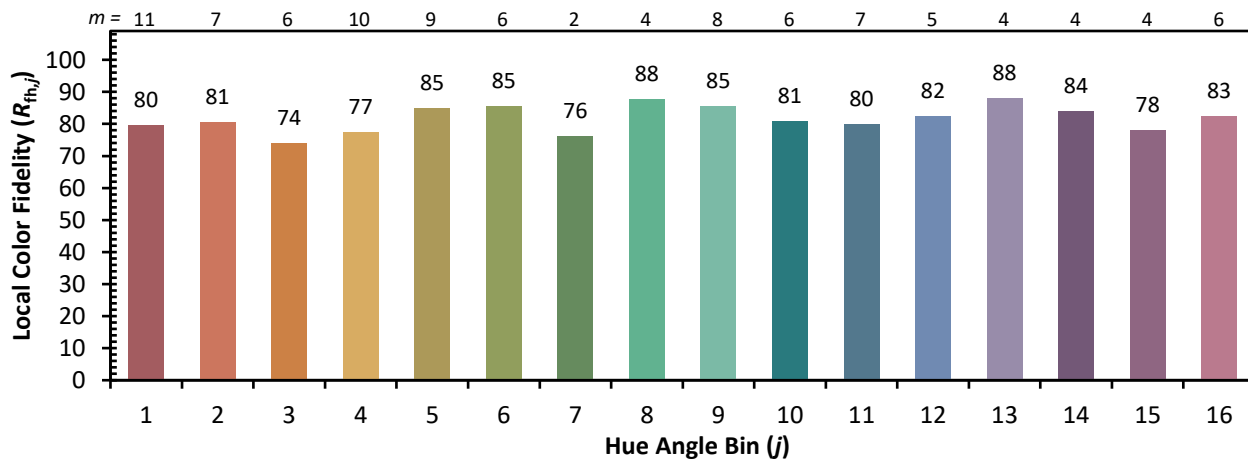
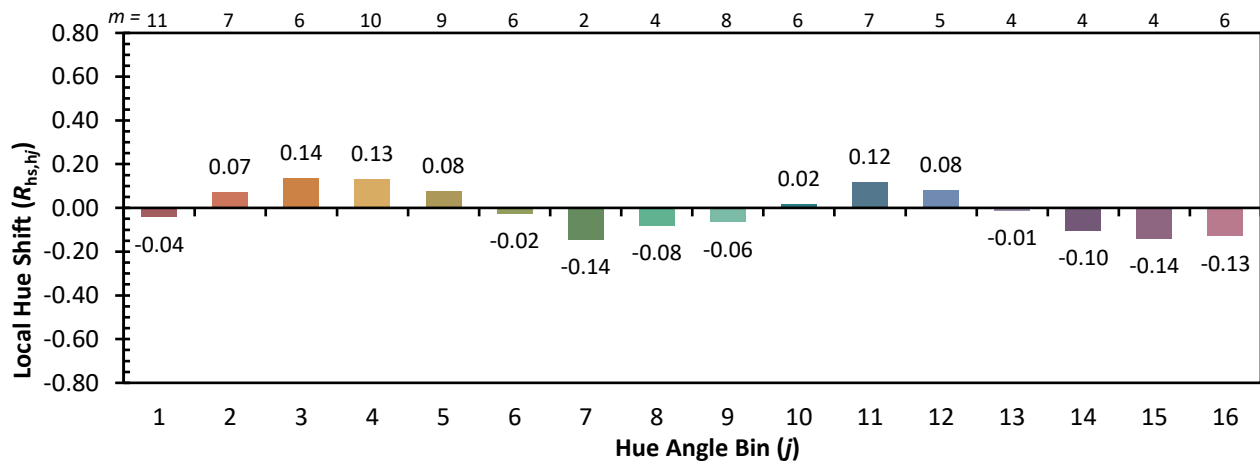
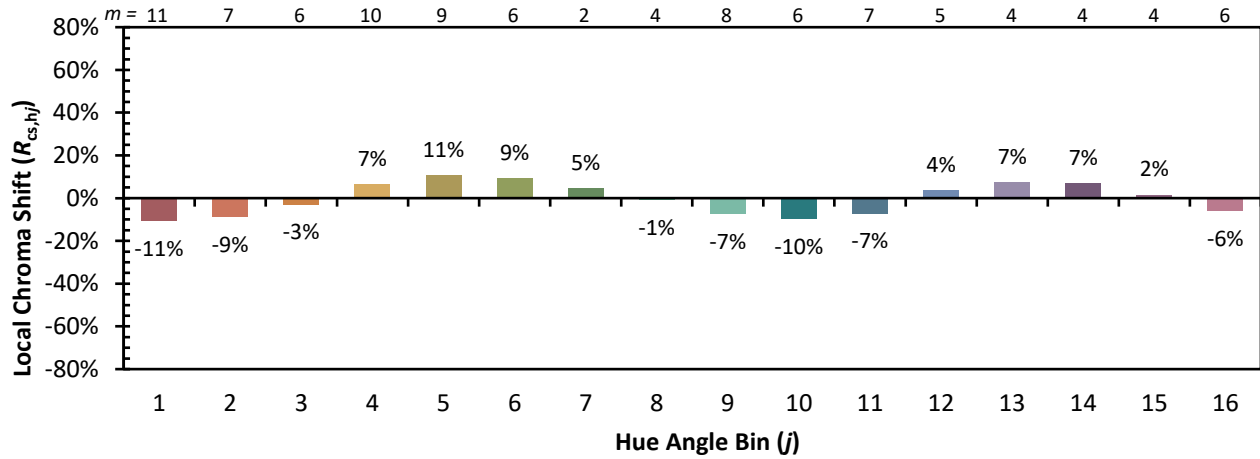


Individual Sample Fidelity Index ($R_{f,i}$)

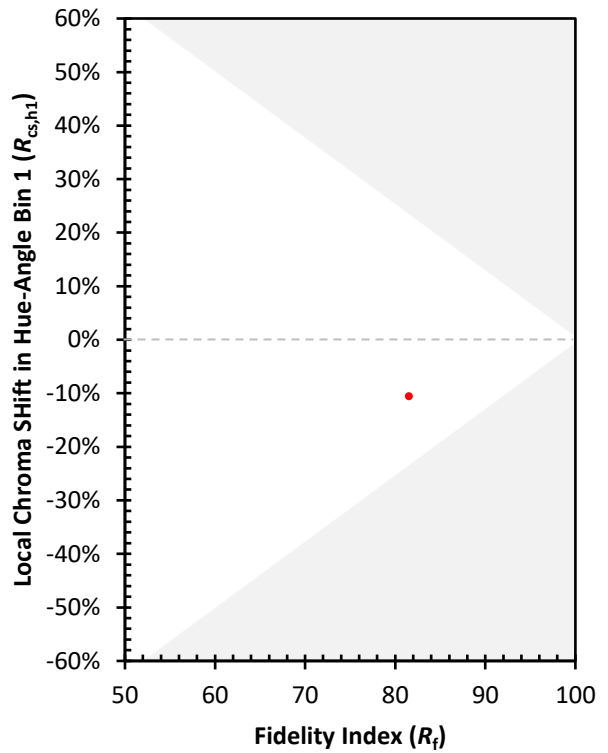
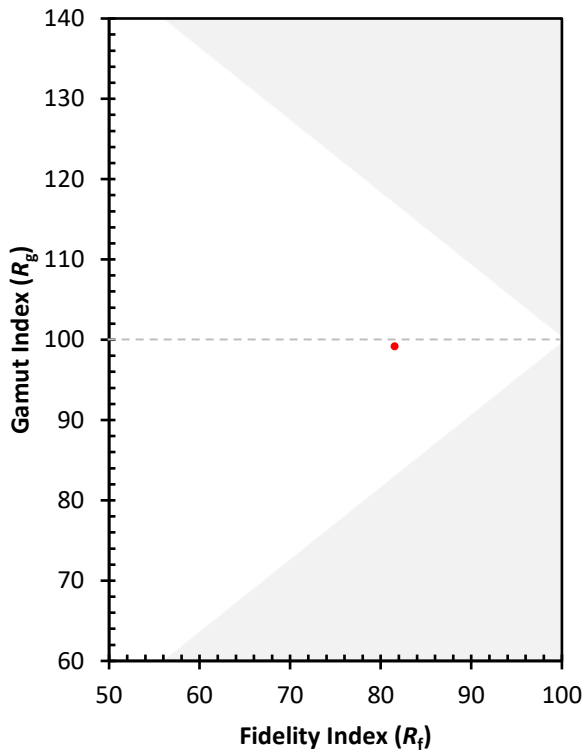
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)