

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: P454082

Luminaire Tested: **GALN-SA5A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14894 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 154
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: 24 FT

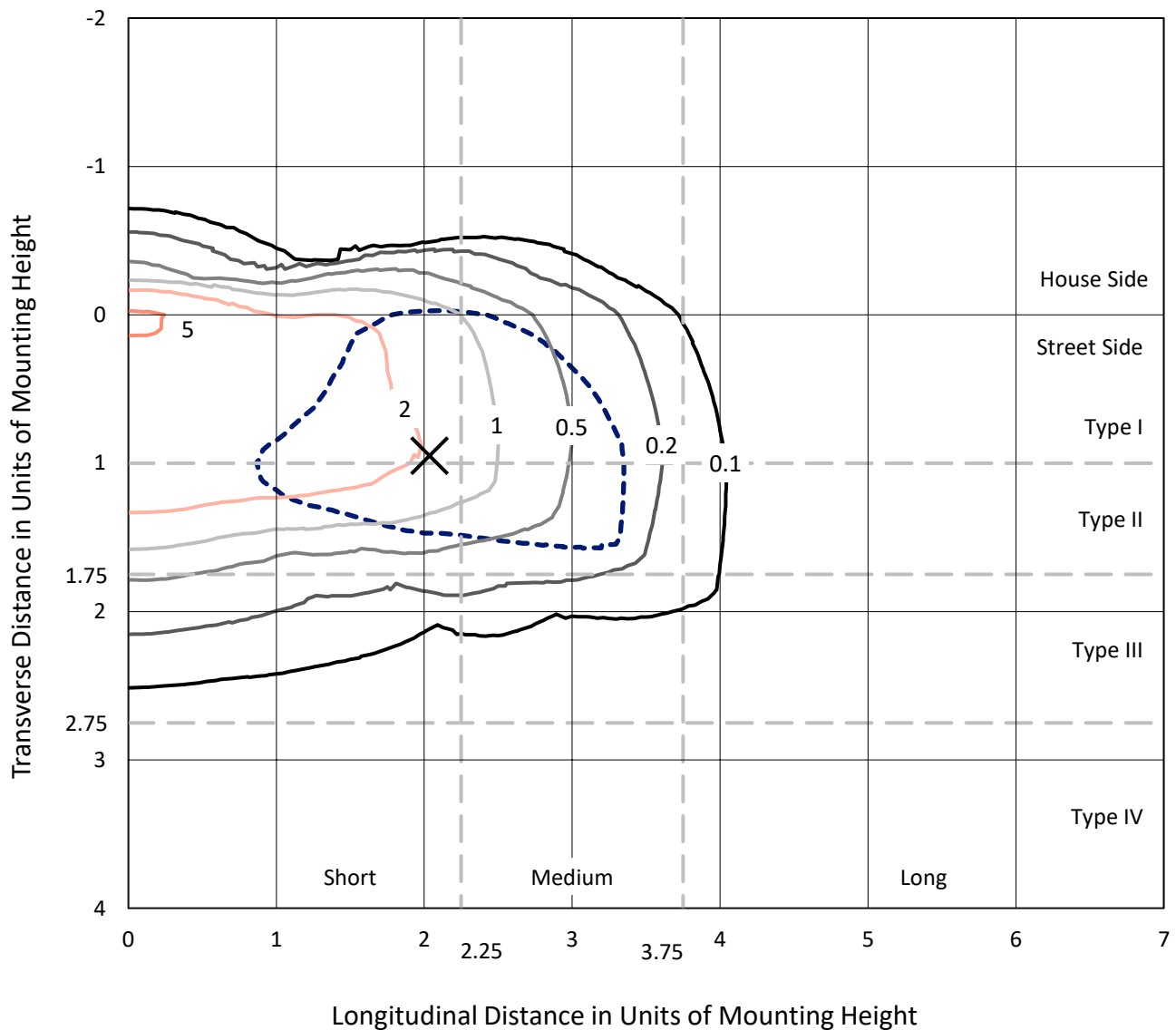


REPORT NUMBER: P454082

CATALOG NUMBER: GALN-SA5A-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

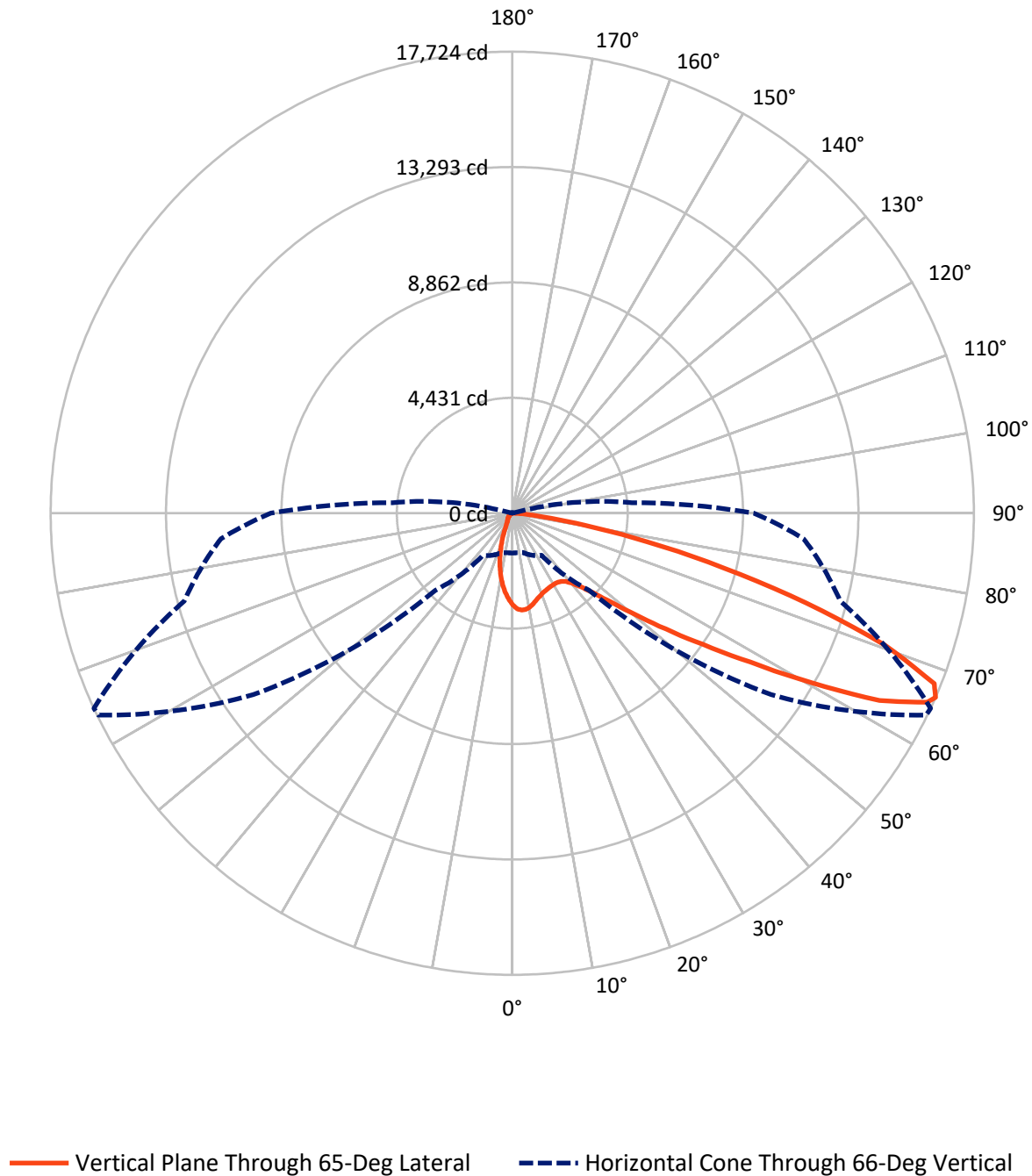


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

REPORT NUMBER: P454082

CATALOG NUMBER: GALN-SA5A-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454082

CATALOG NUMBER: GALN-SA5A-830-U-SL2-HSS

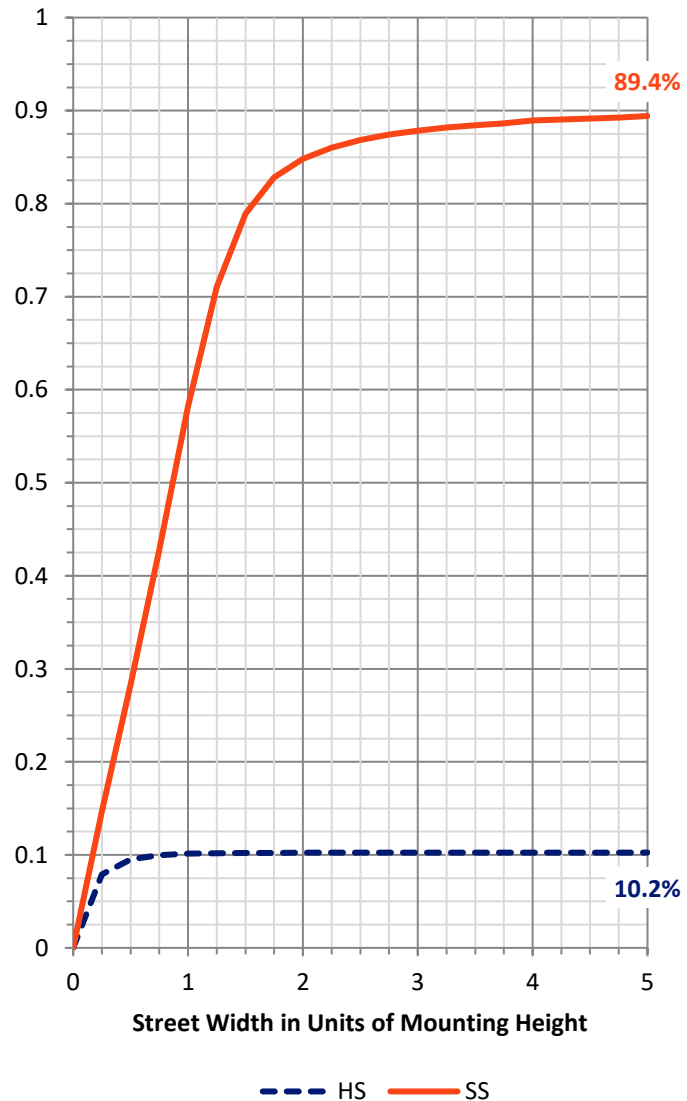
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1540.2	0.0	1540.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13353.8	0.0	13353.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	14894.0	0.0	14894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	1.9
10°-20°	629.4	4.2
20°-30°	901.6	6.1
30°-40°	1316.8	8.8
40°-50°	2208.1	14.8
50°-60°	3685.0	24.7
60°-70°	3911.5	26.3
70°-80°	1771.5	11.9
80°-90°	181.3	1.2
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°	14894.0	100.0
0°-180°	14894.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454082

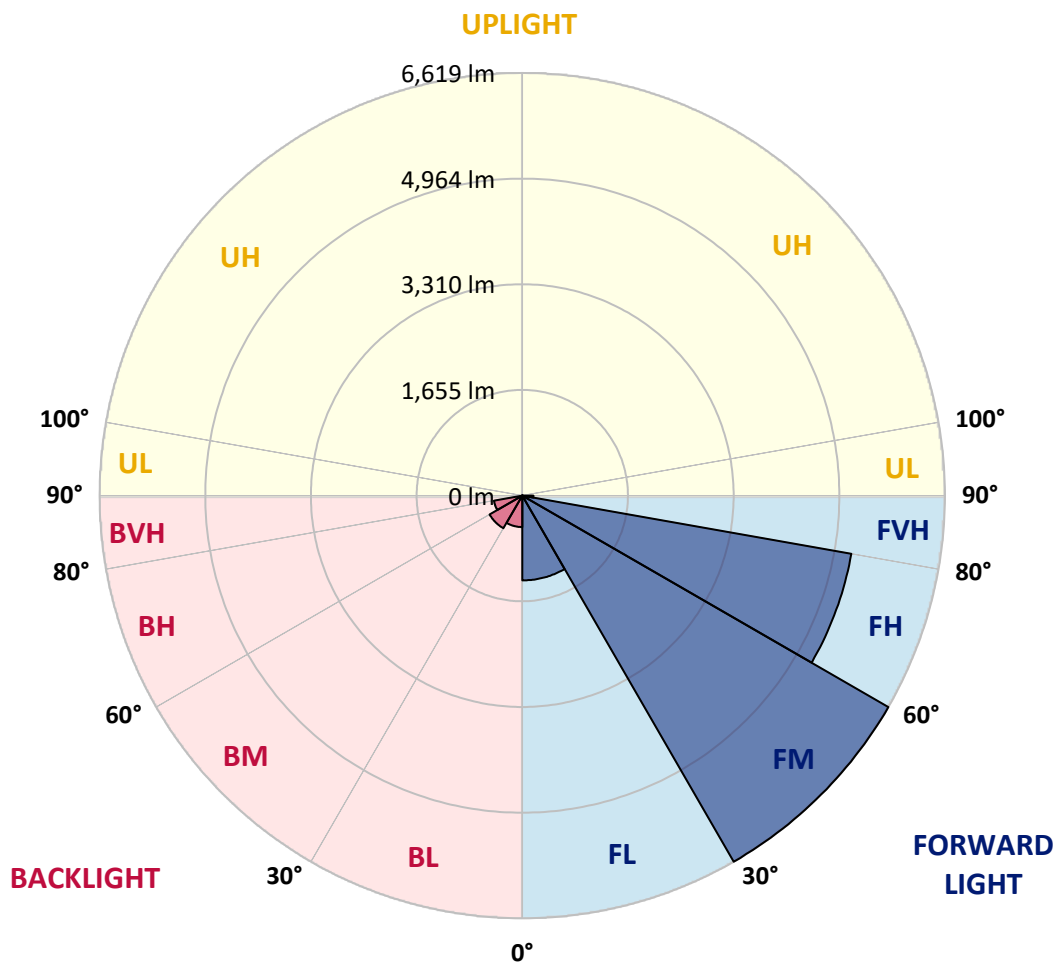
CATALOG NUMBER: GALN-SA5A-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1327.1	8.9			
FM	(30°-60°)	6619.2	44.4			
FH	(60°-80°)	5231.9	35.1			G3/7500
FVH	(80°-90°)	175.5	1.2			G2/225
BL	(0°-30°)	492.7	3.3	B1/500		
BM	(30°-60°)	590.7	4.0	B1/1000		
BH	(60°-80°)	451.1	3.0	B1/500		G1/500
BVH	(80°-90°)	5.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





REPORT NUMBER: P454082

CATALOG NUMBER: GALN-SA5A-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9
2.5°	3722.0	3726.1	3731.1	3738.1	3743.2	3728.1	3707.0	3682.8	3677.8	3626.5	3564.1
5°	3522.9	3528.9	3573.2	3597.3	3651.6	3700.9	3732.1	3736.1	3734.1	3685.8	3586.2
7.5°	3239.2	3256.3	3299.5	3341.8	3443.4	3536.9	3647.6	3725.1	3730.1	3717.0	3593.3
10°	3008.8	3019.9	3042.0	3125.5	3210.0	3352.9	3507.8	3653.6	3665.7	3718.0	3587.2
12.5°	2828.8	2844.8	2872.0	2936.4	3038.0	3172.8	3348.8	3545.0	3570.1	3698.9	3570.1
15°	2703.0	2711.1	2738.2	2801.6	2900.2	3024.9	3203.0	3431.3	3453.5	3673.8	3567.1
17.5°	2643.7	2652.7	2671.8	2722.1	2803.6	2919.3	3093.3	3339.8	3367.9	3657.7	3578.2
20°	2659.8	2667.8	2668.8	2695.0	2750.3	2847.9	3012.8	3254.3	3290.5	3647.6	3596.3
22.5°	2751.3	2752.3	2740.2	2728.2	2747.3	2817.7	2963.6	3200.0	3237.2	3645.6	3617.4
25°	2888.1	2891.1	2871.0	2828.8	2790.5	2826.7	2952.5	3164.7	3197.9	3640.6	3630.5
27.5°	3077.2	3076.2	3070.2	2999.8	2891.1	2867.0	2961.5	3145.6	3173.8	3626.5	3635.5
30°	3341.8	3333.7	3320.7	3241.2	3075.2	2964.6	2999.8	3133.6	3159.7	3606.4	3622.5
32.5°	3602.3	3632.5	3630.5	3555.1	3347.8	3138.6	3079.2	3149.7	3168.8	3593.3	3603.3
35°	3906.1	3905.1	3982.6	3954.4	3712.0	3360.9	3215.0	3203.0	3218.1	3602.3	3594.3
37.5°	4187.8	4214.0	4334.7	4363.8	4142.5	3674.8	3407.2	3317.6	3322.7	3663.7	3616.4
40°	4538.9	4589.2	4769.2	4866.8	4671.7	4140.5	3690.9	3527.9	3528.9	3814.6	3699.9
42.5°	4991.6	5071.0	5239.0	5402.0	5297.4	4691.8	4116.4	3860.9	3858.9	4080.2	3891.0
45°	5541.8	5597.1	5788.3	6046.8	5980.4	5461.3	4736.0	4376.9	4350.8	4515.7	4230.1
47.5°	6016.6	6092.1	6286.2	6581.0	6882.8	6400.9	5476.4	5086.1	5069.0	5208.8	4811.5
50°	6223.9	6290.3	6494.5	6907.9	7639.2	7634.2	6579.0	6121.3	6092.1	6167.5	5710.8
52.5°	5996.5	6058.9	6265.1	6780.2	7995.4	9137.1	8176.4	7419.9	7384.7	7288.2	6785.2
55°	5217.9	5269.2	5574.0	6165.5	7858.5	10139.0	10377.5	9024.4	8887.6	8512.4	8001.4
57.5°	4154.6	4128.4	4317.6	5004.6	7055.8	10475.0	12636.8	11023.3	10778.8	9570.7	9030.5
60°	2879.1	2959.5	3036.0	3488.7	5305.4	9892.6	14042.2	13536.2	13214.3	10611.8	10016.3
62.5°	2116.5	2169.9	2220.1	2429.4	3335.8	7898.8	14290.6	16117.5	15831.8	11717.4	10956.9
65°	1673.9	1677.9	1698.1	1904.3	2198.0	5136.4	13096.6	17573.1	17499.6	12781.7	11338.1
66°	1525.0	1526.0	1557.2	1778.5	1972.7	4182.8	12139.9	17683.7	17724.0	13037.2	11226.5
67.5°	1332.9	1328.9	1374.1	1598.5	1796.6	3015.9	10427.8	17235.1	17473.5	13233.4	10825.1
70°	1033.1	1028.1	1083.4	1340.9	1654.8	2011.9	6931.0	14798.6	15182.9	12832.0	9577.7
72.5°	688.1	692.1	786.7	1058.3	1579.4	1771.5	4169.7	11257.7	11800.9	10596.8	7534.6
75°	401.4	408.4	516.1	786.7	1371.1	1689.0	2360.0	8027.5	8374.6	7317.3	4693.8
77.5°	210.2	213.3	288.7	519.1	1051.2	1568.3	1572.3	5128.4	5291.3	3556.1	1858.0
80°	111.7	108.6	154.9	312.9	723.3	1377.2	1275.6	2715.1	2822.7	1056.3	469.8
82.5°	42.3	46.3	82.5	205.2	427.5	988.9	1098.5	1200.1	1162.9	232.4	197.2
85°	8.0	10.1	35.2	121.7	215.3	413.4	809.8	588.5	545.2	87.5	113.7
87.5°	1.0	2.0	10.1	29.2	31.2	139.8	239.4	163.0	140.8	32.2	47.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454082

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9
2.5°	3533.9	3506.8	3416.2	3326.7	3235.2	3152.7	3096.3	3004.8	2981.7	2948.5	2929.3
5°	3526.9	3463.5	3289.5	3099.4	2922.3	2731.2	2585.3	2444.5	2369.0	2330.8	2316.7
7.5°	3506.8	3406.2	3134.6	2836.8	2553.1	2267.4	2019.0	1829.8	1708.1	1624.6	1568.3
10°	3466.5	3327.7	2954.5	2545.1	2116.5	1739.3	1424.4	1185.0	999.9	941.6	943.6
12.5°	3425.3	3240.2	2753.3	2221.2	1690.0	1214.2	880.2	691.1	602.6	573.4	567.4
15°	3387.1	3156.7	2556.1	1907.3	1258.5	786.7	567.4	501.0	476.8	471.8	470.8
17.5°	3366.9	3079.2	2345.9	1548.2	878.2	534.2	454.7	436.6	429.5	424.5	422.5
20°	3349.8	3011.8	2144.7	1212.2	600.6	437.6	407.4	390.3	378.2	373.2	370.2
22.5°	3337.8	2942.4	1936.5	938.6	459.7	388.3	361.1	339.0	321.9	315.9	311.8
25°	3319.7	2866.0	1726.2	686.1	387.3	345.0	313.9	287.7	265.6	254.5	252.5
27.5°	3293.5	2779.5	1495.9	508.0	346.0	306.8	268.6	236.4	214.3	202.2	203.2
30°	3251.3	2688.9	1265.5	403.4	312.9	267.6	226.3	195.2	174.0	165.0	164.0
32.5°	3201.0	2579.3	1054.2	346.0	282.7	232.4	189.1	162.0	145.9	138.8	137.8
35°	3153.7	2468.6	839.0	310.8	251.5	200.2	158.9	135.8	123.7	117.7	118.7
37.5°	3127.5	2370.0	653.9	282.7	226.3	172.0	136.8	116.7	105.6	100.6	99.6
40°	3144.6	2289.6	520.1	257.5	198.2	147.9	117.7	100.6	89.5	82.5	82.5
42.5°	3225.1	2254.4	419.5	233.4	172.0	127.8	102.6	86.5	74.4	67.4	68.4
45°	3470.6	2291.6	351.1	211.3	147.9	110.7	88.5	71.4	60.4	55.3	54.3
47.5°	3878.0	2431.4	303.8	188.1	126.8	94.6	74.4	59.4	48.3	44.3	43.3
50°	4590.2	2720.1	268.6	165.0	107.6	80.5	61.4	47.3	38.2	34.2	34.2
52.5°	5570.0	3349.8	243.4	138.8	90.5	68.4	50.3	38.2	30.2	27.2	26.2
55°	6594.1	4013.8	230.4	116.7	75.4	56.3	40.2	30.2	23.1	20.1	19.1
57.5°	7578.9	4534.9	215.3	94.6	60.4	43.3	31.2	23.1	16.1	14.1	13.1
60°	8523.5	4956.4	183.1	75.4	47.3	31.2	23.1	16.1	11.1	9.1	9.1
62.5°	9368.5	5201.8	143.9	60.4	36.2	22.1	15.1	12.1	8.0	6.0	6.0
65°	9467.1	4882.9	108.6	46.3	26.2	14.1	9.1	9.1	6.0	4.0	4.0
66°	9268.9	4612.3	95.6	42.3	23.1	12.1	8.0	7.0	5.0	3.0	3.0
67.5°	8826.3	4150.6	82.5	36.2	19.1	9.1	6.0	6.0	4.0	2.0	2.0
70°	7626.2	3390.1	65.4	27.2	14.1	7.0	4.0	4.0	3.0	2.0	2.0
72.5°	5812.4	2531.0	53.3	20.1	10.1	5.0	3.0	3.0	3.0	2.0	2.0
75°	3505.8	1363.1	41.2	15.1	9.1	4.0	2.0	3.0	4.0	3.0	2.0
77.5°	1291.6	463.7	32.2	12.1	7.0	4.0	2.0	2.0	4.0	3.0	3.0
80°	316.9	120.7	23.1	10.1	7.0	4.0	2.0	2.0	4.0	4.0	4.0
82.5°	146.9	51.3	16.1	9.1	7.0	4.0	2.0	2.0	3.0	4.0	4.0
85°	84.5	24.1	13.1	10.1	7.0	4.0	2.0	2.0	3.0	4.0	4.0
87.5°	34.2	12.1	12.1	10.1	8.0	5.0	2.0	2.0	2.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)