

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: P522846

Luminaire Tested: **GALN-SA7B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31517 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 286
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



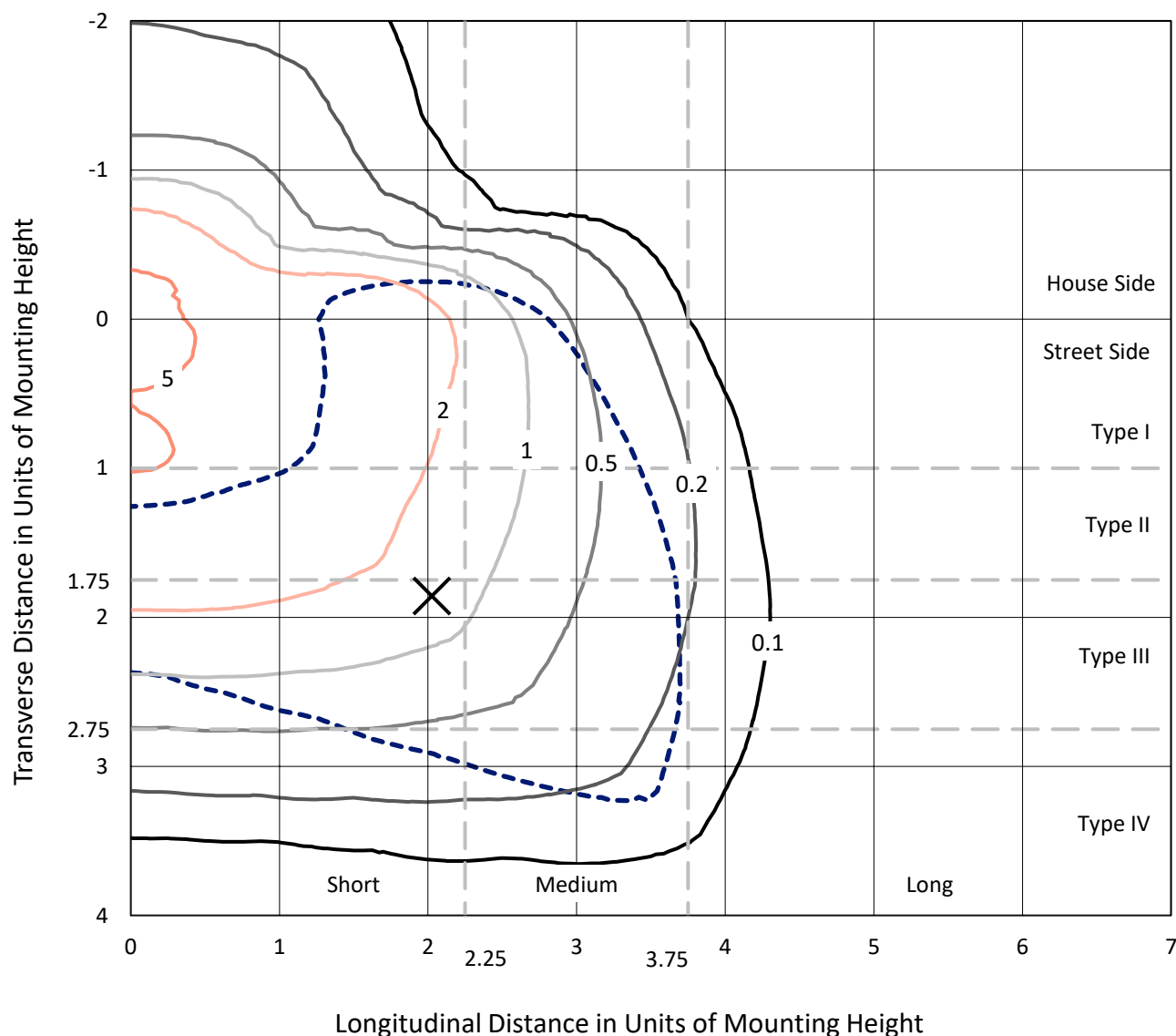
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

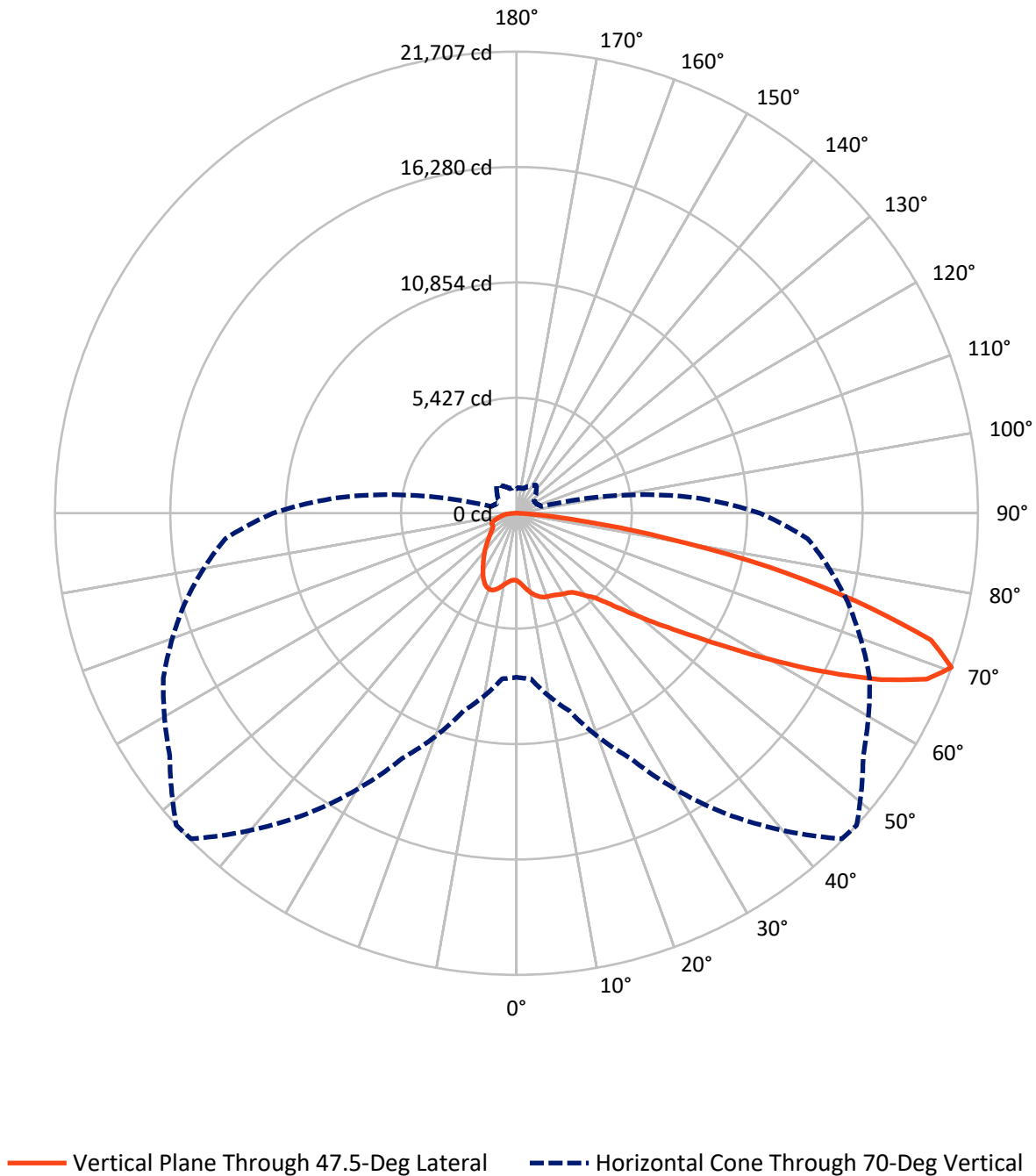


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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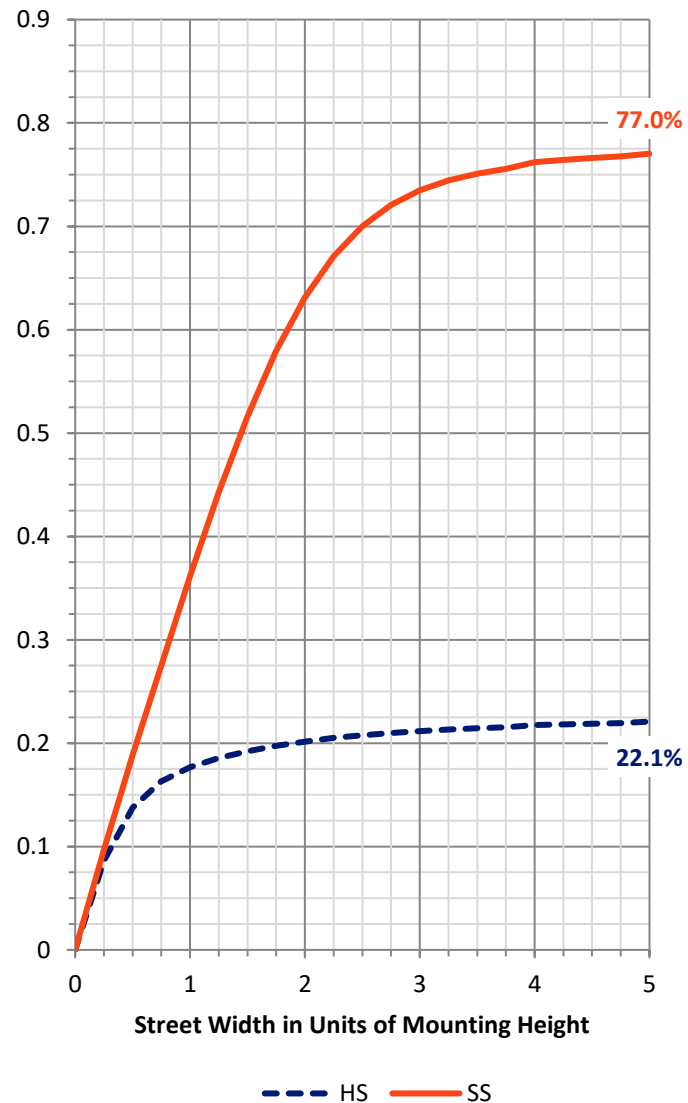
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7136.0	0.0	7136.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24380.9	0.0	24380.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	31517.0	0.0	31517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	1.0
10°-20°	1090.3	3.5
20°-30°	1813.1	5.8
30°-40°	2569.9	8.2
40°-50°	3793.7	12.0
50°-60°	6570.8	20.8
60°-70°	9281.4	29.4
70°-80°	5335.5	16.9
80°-90°	736.2	2.3
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°	31517.0	100.0
0°-180°	31517.0	100.0

Coefficient of Utilization



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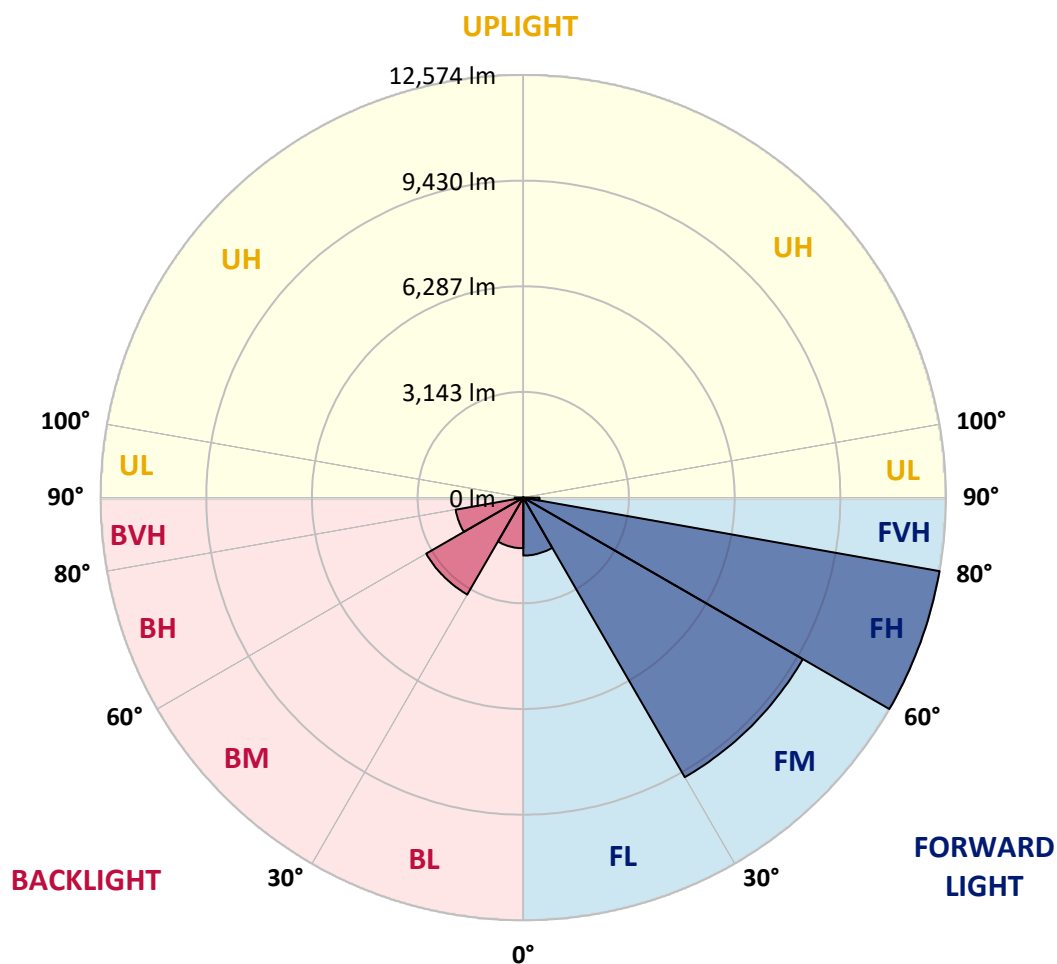
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1723.5	5.5			
FM	(30°-60°)	9602.6	30.5			
FH	(60°-80°)	12574.0	39.9			G5
FVH	(80°-90°)	480.9	1.5			G3/500
BL	(0°-30°)	1506.1	4.8	B3/2500		
BM	(30°-60°)	3331.7	10.6	B3/5000		
BH	(60°-80°)	2043.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	255.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9
2.5°	3368.0	3356.2	3354.5	3329.2	3315.7	3290.4	3280.3	3256.7	3228.0	3199.3	3172.4
5°	3632.8	3632.8	3621.0	3585.6	3529.9	3472.6	3447.3	3401.7	3320.8	3255.0	3199.3
7.5°	3904.3	3907.7	3884.1	3831.8	3752.5	3659.8	3636.2	3568.7	3454.0	3357.9	3275.2
10°	4138.7	4138.7	4106.7	4035.9	3936.4	3835.2	3811.6	3735.7	3607.5	3487.7	3379.8
12.5°	4317.5	4317.5	4275.3	4182.6	4074.7	3983.6	3956.6	3884.1	3764.3	3631.1	3494.5
15°	4433.9	4425.5	4378.2	4273.7	4169.1	4089.8	4071.3	4010.6	3900.9	3766.0	3612.5
17.5°	4438.9	4435.6	4390.0	4302.3	4211.3	4157.3	4145.5	4105.0	4019.0	3890.8	3728.9
20°	4341.1	4347.9	4317.5	4255.1	4211.3	4187.7	4182.6	4169.1	4108.4	3988.6	3826.7
22.5°	4236.6	4248.4	4219.7	4186.0	4182.6	4206.2	4209.6	4212.9	4174.2	4057.8	3909.4
25°	4211.3	4219.7	4191.0	4160.7	4179.2	4241.6	4255.1	4268.6	4238.2	4140.4	4007.2
27.5°	4339.4	4332.7	4277.0	4211.3	4223.1	4307.4	4325.9	4341.1	4325.9	4241.6	4128.6
30°	4702.0	4680.1	4568.8	4376.5	4315.8	4374.9	4393.4	4435.6	4435.6	4373.2	4260.2
32.5°	5309.2	5267.0	5063.0	4685.2	4474.4	4438.9	4457.5	4526.6	4562.1	4513.2	4390.0
35°	6046.2	6002.4	5710.6	5202.9	4764.4	4567.1	4562.1	4639.6	4734.1	4624.5	4464.2
37.5°	6786.6	6741.1	6390.3	5820.2	5187.8	4837.0	4806.6	4833.6	4874.1	4673.4	4567.1
40°	7527.0	7473.0	7166.1	6510.0	5705.5	5194.5	5115.2	4993.8	4976.9	4833.6	4766.1
42.5°	8260.6	8211.7	8056.5	7284.1	6326.2	5543.6	5422.2	5213.1	5277.1	5191.1	5132.1
45°	9001.0	9004.4	8839.1	8152.7	7075.0	6187.9	6024.3	5697.1	5848.9	5816.8	5850.6
47.5°	9657.1	9648.6	9589.6	8995.9	8004.3	7017.6	6806.8	6427.4	6687.1	6805.1	7063.2
50°	10292.9	10287.8	10291.2	9952.2	9083.6	8004.3	7771.5	7373.5	7958.7	8368.6	8830.7
52.5°	11203.6	11232.3	11028.2	10938.8	10395.8	9169.7	8913.3	8501.8	9461.4	10107.4	11009.7
55°	12117.7	12094.1	11933.9	12026.6	11768.6	10549.2	10281.1	9953.9	11134.5	11841.1	13197.1
57.5°	12655.7	12664.1	12827.7	13281.4	13463.6	12269.5	12026.6	11773.7	13014.9	13515.8	15143.3
60°	13139.7	13178.5	13649.1	14505.8	15000.0	14382.7	14166.8	13920.6	14740.3	14939.3	16833.2
62.5°	13291.5	13411.3	14232.6	15514.4	16497.6	16767.5	16499.3	15956.2	16382.9	16305.4	17978.4
65°	12534.3	12697.9	14170.2	15892.2	17835.0	19030.8	18860.4	17851.9	17782.8	17315.6	18165.6
67.5°	10540.8	10704.4	12595.0	15099.5	18388.2	20990.5	20820.2	19234.9	18632.8	17410.0	16748.9
70°	7712.5	7815.4	9623.3	12713.1	17276.8	21648.3	21707.3	19909.5	18329.2	16126.6	13752.0
72.5°	4444.0	4671.7	5938.3	8943.7	14114.6	19985.4	20395.2	18506.3	16409.9	13453.4	9614.9
75°	1910.8	1915.9	2745.7	4933.1	9559.2	16064.2	16460.5	15340.7	12886.8	9302.9	5133.8
77.5°	909.0	925.9	1207.6	2202.6	5262.0	11099.0	12168.3	10837.6	8242.1	4469.3	1939.5
80°	590.3	602.1	738.7	1092.9	2580.4	6435.8	7181.2	6252.0	3636.2	1597.1	836.5
82.5°	357.5	360.9	494.2	667.9	1420.1	2914.3	3435.5	2713.6	1551.6	956.3	492.5
85°	217.6	219.2	300.2	413.2	861.8	1006.9	1033.8	1025.4	910.7	625.7	263.1
87.5°	104.6	107.9	155.2	195.6	339.0	312.0	295.1	342.4	430.1	337.3	113.0
90°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9	3163.9
2.5°	3160.6	3155.5	3143.7	3138.6	3135.3	3136.9	3135.3	3135.3	3136.9	3136.9	3136.9
5°	3175.7	3167.3	3148.7	3148.7	3158.9	3182.5	3204.4	3221.3	3239.8	3238.1	3238.1
7.5°	3241.5	3226.3	3204.4	3211.2	3236.4	3273.6	3312.3	3349.4	3386.5	3389.9	3388.2
10°	3337.6	3322.5	3298.8	3307.3	3347.8	3403.4	3452.3	3506.3	3546.8	3558.6	3555.2
12.5°	3447.3	3416.9	3396.7	3420.3	3484.4	3558.6	3605.8	3646.3	3674.9	3691.8	3685.1
15°	3558.6	3529.9	3506.3	3555.2	3632.8	3701.9	3725.5	3732.3	3737.3	3754.2	3750.8
17.5°	3666.5	3627.7	3619.3	3683.4	3757.6	3787.9	3774.5	3745.8	3723.9	3737.3	3735.7
20°	3762.6	3732.3	3728.9	3793.0	3821.7	3793.0	3735.7	3685.1	3646.3	3649.6	3648.0
22.5°	3853.7	3830.1	3833.5	3860.5	3814.9	3717.1	3622.7	3553.5	3511.4	3519.8	3524.8
25°	3954.9	3931.3	3939.7	3895.9	3745.8	3575.4	3438.8	3379.8	3362.9	3379.8	3391.6
27.5°	4086.5	4071.3	4066.2	3897.6	3622.7	3366.3	3211.2	3189.2	3204.4	3241.5	3260.1
30°	4228.1	4228.1	4201.1	3868.9	3454.0	3115.0	2980.1	2983.5	3035.8	3088.0	3106.6
32.5°	4364.7	4393.4	4309.1	3791.3	3236.4	2870.5	2767.6	2771.0	2816.5	2880.6	2897.5
35°	4477.7	4560.4	4401.8	3649.6	2980.1	2664.7	2587.1	2541.6	2543.3	2592.2	2605.7
37.5°	4632.9	4786.4	4455.8	3438.8	2706.9	2489.3	2401.6	2322.3	2270.1	2249.8	2249.8
40°	4902.7	5128.7	4469.3	3126.8	2448.8	2322.3	2197.5	2103.1	2001.9	1910.8	1894.0
42.5°	5359.8	5644.8	4442.3	2767.6	2216.1	2138.5	2017.1	1900.7	1760.7	1632.6	1622.4
45°	6169.3	6316.0	4369.8	2394.9	2008.7	1961.4	1843.4	1716.9	1568.5	1453.8	1445.4
47.5°	7466.3	7258.8	4273.7	2064.3	1819.8	1806.3	1715.2	1568.5	1420.1	1340.8	1332.4
50°	9360.2	8743.0	4260.2	1824.8	1668.0	1674.7	1600.5	1465.6	1335.7	1270.0	1259.8
52.5°	11640.4	10535.7	4349.6	1656.2	1534.7	1560.0	1522.9	1398.1	1283.4	1227.8	1217.7
55°	13853.1	12148.1	4403.5	1524.6	1409.9	1457.2	1462.2	1357.7	1253.1	1197.4	1190.7
57.5°	15649.3	13362.4	4164.0	1404.9	1302.0	1374.5	1411.6	1334.0	1237.9	1195.7	1189.0
60°	16899.0	13935.8	3482.7	1298.6	1222.7	1308.7	1393.1	1335.7	1275.0	1280.1	1283.4
62.5°	17297.0	13681.1	2612.4	1219.4	1168.8	1286.8	1423.4	1404.9	1342.5	1381.3	1388.0
65°	16637.6	12628.7	1894.0	1157.0	1121.5	1302.0	1514.5	1455.5	1318.9	1347.5	1347.5
67.5°	14429.9	10879.8	1474.0	1099.6	1067.6	1330.7	1605.6	1450.4	1263.2	1296.9	1266.6
70°	11446.5	8415.8	1227.8	1035.5	1010.2	1288.5	1614.0	1398.1	1197.4	1204.2	1146.8
72.5°	7596.1	5533.5	1055.8	974.8	922.5	1158.6	1544.9	1330.7	1133.3	1094.6	1037.2
75°	3722.2	2759.2	920.8	898.9	807.8	1008.5	1450.4	1266.6	1064.2	1003.5	971.4
77.5°	1442.0	1173.8	785.9	802.8	703.3	888.8	1325.6	1175.5	973.1	890.5	865.2
80°	699.9	666.2	644.3	669.6	578.5	757.3	1210.9	1096.2	888.8	797.7	760.6
82.5°	435.1	411.5	494.2	521.1	445.2	691.5	1148.5	1028.8	782.5	661.1	630.8
85°	220.9	236.1	330.6	355.9	318.8	549.8	946.1	772.4	565.0	468.9	472.2
87.5°	84.3	113.0	173.7	187.2	170.3	290.1	521.1	450.3	362.6	246.2	227.7
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)