

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: P455958

Luminaire Tested: **GALN-SA7A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25256 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): 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

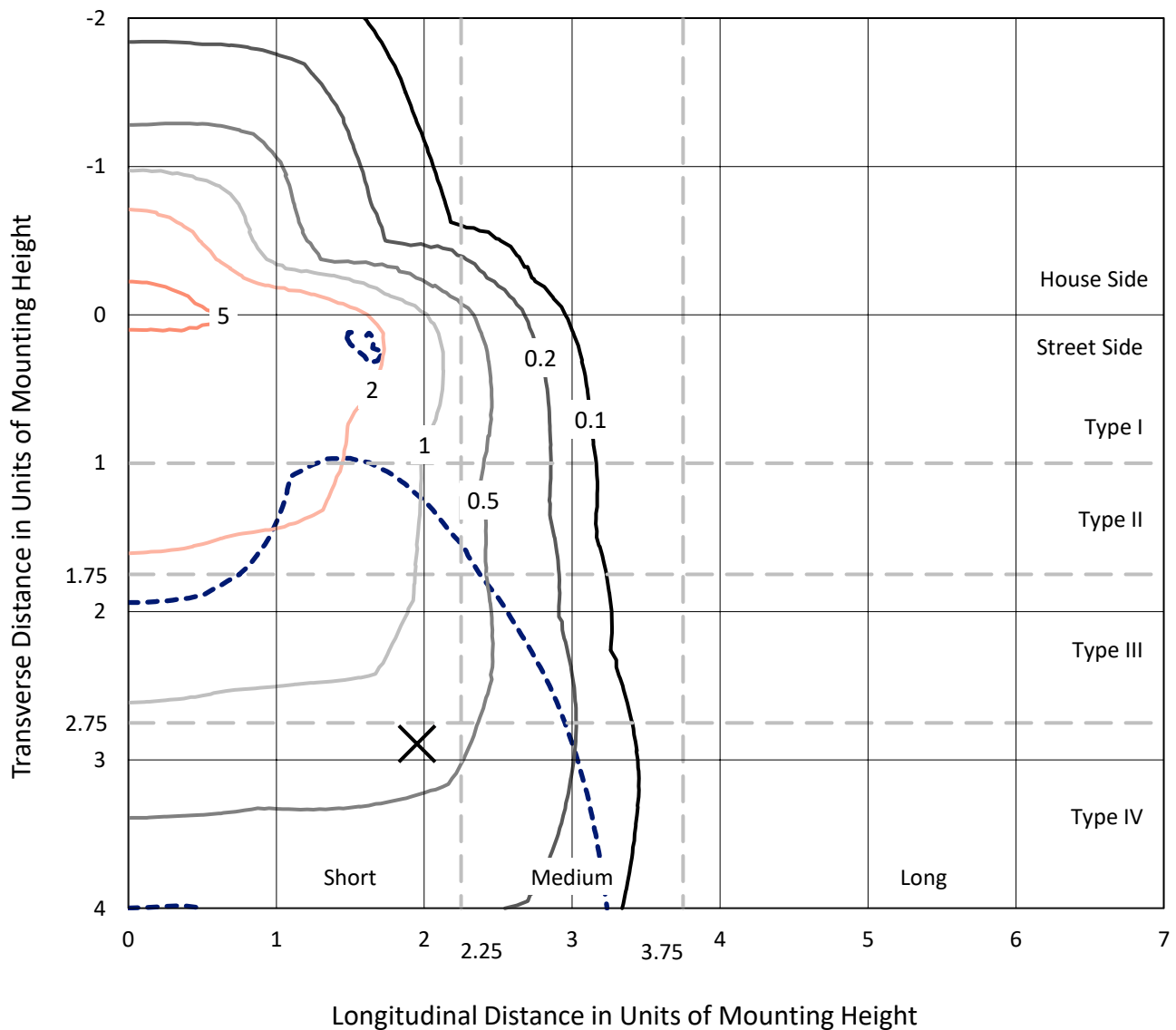


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

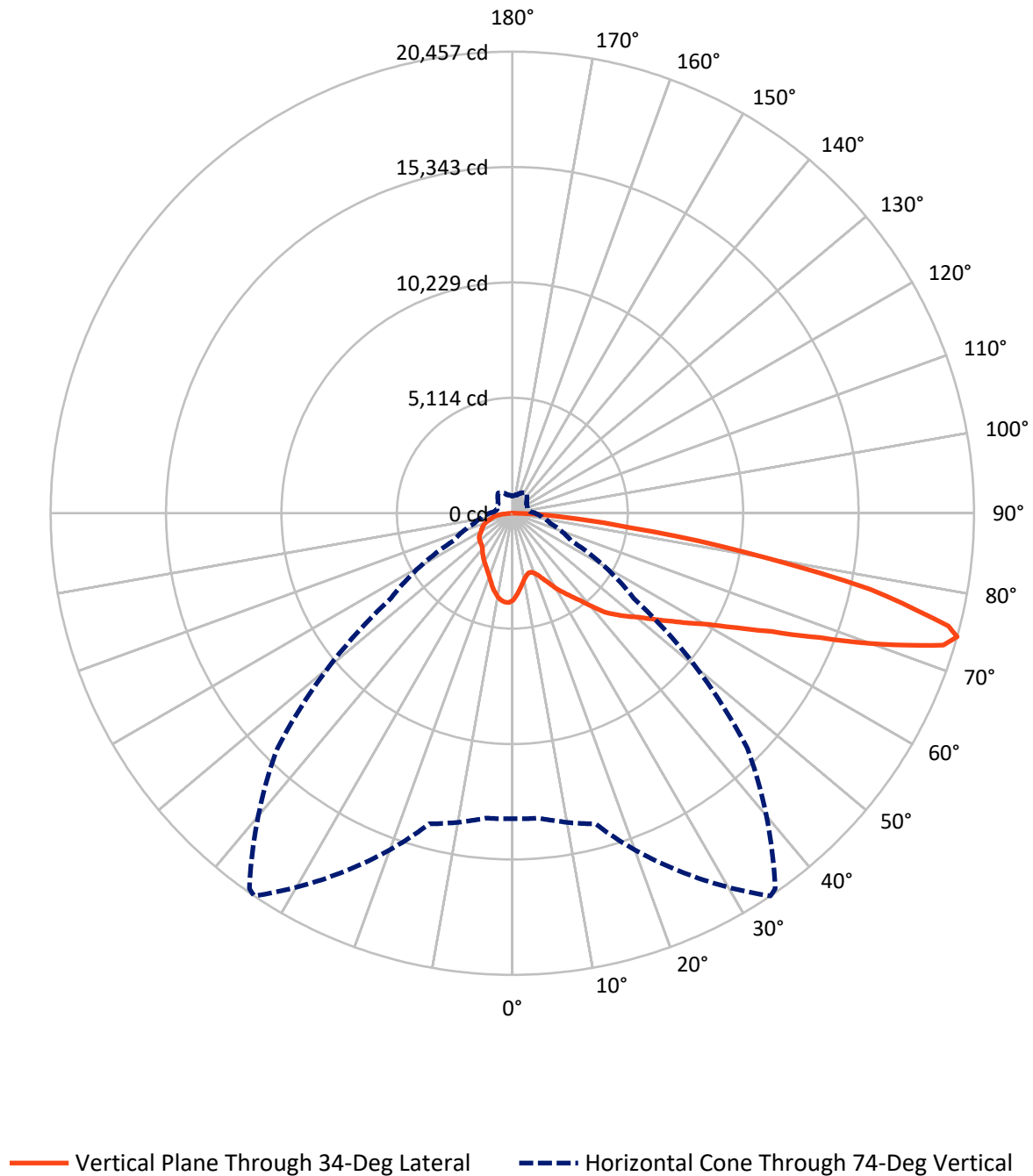


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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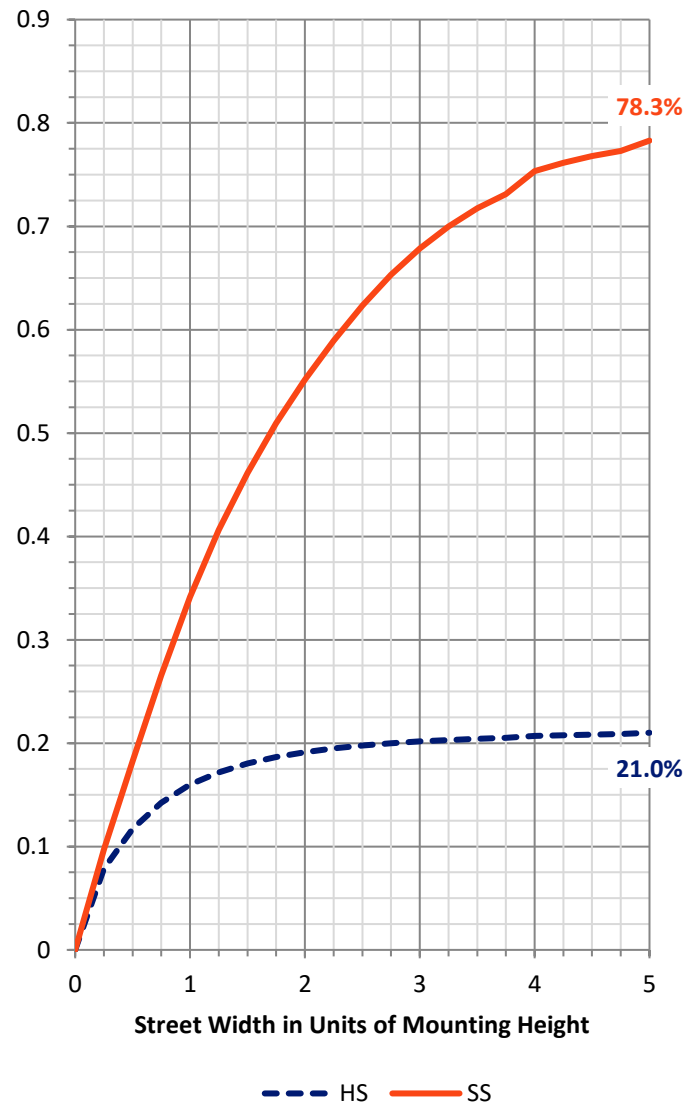
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5374.7	0.0	5374.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	19881.3	0.0	19881.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	25256.0	0.0	25256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	1.4
10°-20°	960.0	3.8
20°-30°	1582.8	6.3
30°-40°	2370.9	9.4
40°-50°	3446.6	13.6
50°-60°	4814.1	19.1
60°-70°	6027.0	23.9
70°-80°	4983.8	19.7
80°-90°	720.1	2.9
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°	25256.0	100.0
0°-180°	25256.0	100.0

Coefficient of Utilization



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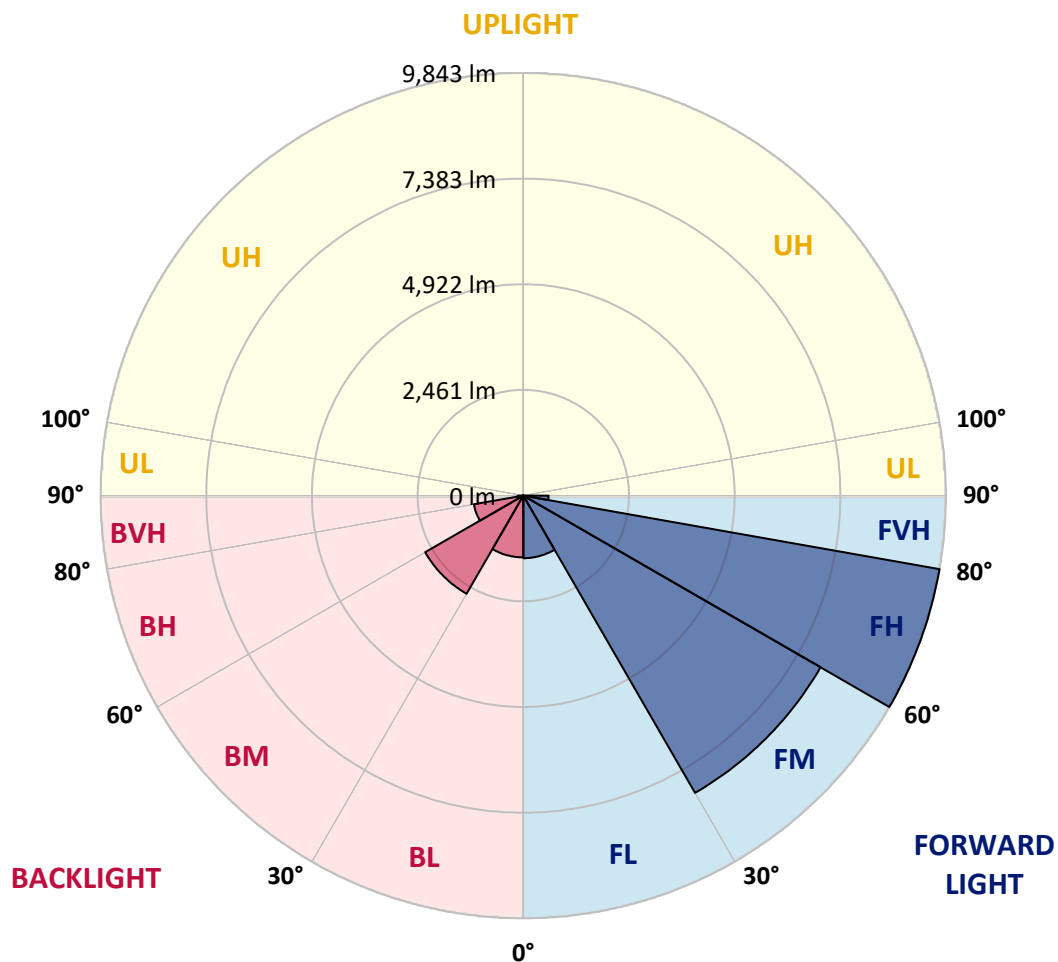
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1455.9	5.8			
FM	(30°-60°)	7992.0	31.6			
FH	(60°-80°)	9843.5	39.0			G4/12000
FVH	(80°-90°)	590.0	2.3			G4/750
BL	(0°-30°)	1437.6	5.7	B3/2500		
BM	(30°-60°)	2639.5	10.5	B3/5000		
BH	(60°-80°)	1167.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	130.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1
2.5°	3563.7	3581.9	3591.6	3626.6	3635.0	3646.2	3675.6	3714.8	3765.1	3809.9	3849.1
5°	3267.0	3295.0	3311.8	3342.6	3402.8	3408.4	3486.7	3576.3	3678.4	3773.5	3851.9
7.5°	2985.8	3016.6	3030.6	3086.6	3166.3	3178.9	3293.6	3434.9	3605.6	3749.8	3870.1
10°	2774.5	2789.9	2820.7	2862.7	2957.8	2966.2	3115.9	3304.8	3525.9	3738.6	3900.9
12.5°	2659.8	2668.2	2675.2	2720.0	2813.7	2826.3	2983.0	3197.1	3462.9	3747.0	3951.2
15°	2676.6	2679.4	2648.6	2657.0	2732.6	2750.8	2906.1	3125.7	3423.8	3767.9	4026.8
17.5°	2817.9	2808.1	2732.6	2693.4	2746.6	2755.0	2890.7	3097.7	3405.6	3807.1	4105.1
20°	3040.4	3026.4	2896.3	2809.5	2840.3	2847.3	2941.0	3118.7	3423.8	3871.5	4226.9
22.5°	3317.4	3311.8	3114.5	3009.6	3008.2	3008.2	3057.2	3194.3	3478.3	3959.6	4354.2
25°	3705.0	3675.6	3418.2	3282.4	3244.7	3241.9	3236.3	3318.8	3548.3	4053.4	4505.3
27.5°	4102.3	4052.0	3822.5	3614.0	3532.9	3523.1	3486.7	3495.1	3637.8	4159.7	4677.4
30°	4459.1	4426.9	4211.5	3980.6	3884.1	3861.7	3760.9	3714.8	3787.5	4351.4	4951.6
32.5°	4732.0	4712.4	4544.5	4334.6	4191.9	4187.7	4040.8	4003.0	4021.2	4583.7	5265.0
35°	4953.0	4960.0	4874.7	4692.8	4529.1	4505.3	4407.4	4359.8	4306.6	4919.5	5659.6
37.5°	5255.3	5270.6	5265.0	5108.3	4908.3	4913.9	4891.5	4813.1	4671.8	5294.4	6097.5
40°	5588.3	5599.4	5598.0	5537.9	5432.9	5438.5	5430.1	5340.6	5129.3	5771.5	6584.5
42.5°	6048.6	5995.4	5856.9	5917.1	5978.6	6005.2	6062.6	5977.2	5687.6	6280.8	7042.0
45°	6563.5	6462.7	6149.3	6177.3	6405.4	6455.7	6771.9	6654.4	6293.4	6865.7	7580.7
47.5°	6888.1	6788.7	6524.3	6518.7	6820.9	6869.9	7429.6	7386.2	6844.7	7496.7	8238.3
50°	7177.7	7163.7	6865.7	6937.0	7232.3	7305.0	8145.9	8105.3	7394.6	8241.1	8954.6
52.5°	7607.2	7493.9	7256.1	7403.0	7793.3	7888.5	8856.7	8737.8	7899.7	8898.7	9650.0
55°	7800.3	7773.7	7759.8	7887.1	8423.0	8491.5	9547.9	9275.0	8330.6	9455.5	10178.9
57.5°	8316.6	8267.7	8406.2	8492.9	9164.5	9269.5	10269.9	9836.1	8708.4	9897.7	10436.4
60°	8985.4	8958.8	9086.2	9242.9	9992.8	10152.3	11092.6	10314.6	9012.0	10120.1	10295.0
62.5°	9984.4	9981.6	9957.8	10293.6	11166.7	11313.6	12037.0	10780.5	9059.6	9953.6	9564.7
65°	11417.2	11366.8	11159.7	11526.3	12627.4	12799.5	13020.6	11040.8	8772.7	9098.8	8053.6
67.5°	12915.7	12912.9	12745.0	13220.7	14724.8	14902.5	14250.5	10983.4	7976.6	7370.8	5719.8
70°	14158.1	14098.0	14312.0	15579.7	17404.2	17609.9	15326.4	10307.6	6353.6	4867.7	3398.6
72.5°	14456.1	14458.9	14903.9	17398.6	19977.2	20009.4	15714.0	8354.4	4252.1	2685.0	1700.0
74°	13538.3	13562.1	14251.9	17489.5	20457.2	20311.6	14723.4	6566.3	2875.3	1753.2	1225.7
75°	12357.4	12207.7	13205.3	16883.7	19959.1	19802.3	13563.5	5269.2	2193.9	1400.6	1073.2
77.5°	6606.8	6759.4	8298.4	12599.5	16214.9	16034.4	9196.7	2526.9	1185.1	975.2	772.3
80°	2352.0	2594.0	3646.2	6592.9	10395.8	10451.7	4389.2	1158.5	833.9	719.2	545.7
82.5°	959.8	986.4	1565.7	2925.6	5279.0	5329.4	1792.3	688.4	596.0	495.3	326.0
85°	375.0	386.2	692.6	1315.2	2252.7	2399.6	619.8	363.8	366.6	284.0	166.5
87.5°	125.9	142.7	284.0	437.9	765.3	750.0	180.5	107.7	131.5	123.1	51.8
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°	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1
2.5°	3868.7	3895.3	3913.5	3933.0	3951.2	3956.8	3952.6	3965.2	3966.6	3968.0	3969.4
5°	3891.1	3927.4	3962.4	3982.0	3990.4	3983.4	3959.6	3947.0	3935.8	3927.4	3930.2
7.5°	3921.9	3973.6	4005.8	4014.2	3991.8	3959.6	3900.9	3854.7	3825.3	3805.7	3804.3
10°	3969.4	4019.8	4046.4	4022.6	3961.0	3882.7	3790.3	3703.6	3637.8	3618.2	3616.8
12.5°	4029.6	4087.0	4085.6	4015.6	3907.9	3767.9	3618.2	3517.5	3427.9	3383.2	3401.4
15°	4107.9	4151.3	4110.7	3984.8	3814.1	3622.4	3437.7	3300.6	3199.9	3152.3	3155.1
17.5°	4198.9	4236.7	4128.9	3930.2	3682.6	3436.3	3222.3	3092.1	3012.4	2977.4	2974.6
20°	4312.2	4323.4	4128.9	3835.1	3513.3	3219.5	3015.2	2924.2	2879.5	2861.3	2866.9
22.5°	4433.9	4411.6	4106.5	3700.8	3290.8	2992.8	2855.7	2815.1	2792.7	2789.9	2792.7
25°	4571.1	4508.1	4060.4	3518.9	3058.6	2796.9	2717.2	2724.2	2728.4	2728.4	2738.2
27.5°	4739.0	4613.0	3983.4	3289.4	2787.1	2615.0	2592.6	2641.6	2664.0	2668.2	2675.2
30°	4960.0	4727.8	3856.1	3002.6	2556.3	2451.3	2490.5	2556.3	2581.5	2596.8	2594.0
32.5°	5223.1	4853.7	3684.0	2715.8	2370.2	2336.6	2384.2	2451.3	2479.3	2487.7	2476.5
35°	5532.3	4996.4	3457.3	2447.1	2207.9	2227.5	2283.4	2304.4	2329.6	2329.6	2335.2
37.5°	5865.3	5111.1	3180.3	2200.9	2082.0	2153.3	2193.9	2174.3	2163.1	2149.1	2156.1
40°	6203.9	5196.5	2820.7	1957.4	1956.0	2076.4	2087.6	2031.6	1986.8	1972.8	1965.8
42.5°	6499.1	5249.7	2496.1	1768.5	1837.1	2000.8	2009.2	1919.7	1848.3	1806.3	1792.3
45°	6847.5	5311.2	2178.5	1611.8	1726.6	1940.6	1961.6	1841.3	1736.4	1648.2	1625.8
47.5°	7324.6	5451.1	1928.0	1490.1	1646.8	1902.9	1932.2	1776.9	1638.4	1523.7	1505.5
50°	7863.3	5642.8	1733.6	1407.6	1585.3	1869.3	1905.7	1711.2	1547.5	1420.1	1406.2
52.5°	8357.2	5746.4	1565.7	1333.4	1525.1	1807.7	1870.7	1663.6	1457.9	1316.6	1304.0
55°	8627.2	5578.5	1400.6	1260.6	1442.5	1728.0	1821.7	1597.8	1371.2	1262.0	1243.9
57.5°	8663.6	5231.5	1250.9	1182.3	1355.8	1630.0	1730.8	1518.1	1315.2	1224.3	1208.9
60°	8382.4	4713.8	1134.7	1117.9	1267.6	1519.5	1628.6	1448.1	1257.8	1182.3	1166.9
62.5°	7682.8	4151.3	1053.6	1059.2	1178.1	1403.4	1553.1	1381.0	1203.3	1136.1	1122.1
65°	6479.5	3426.5	975.2	999.0	1098.3	1312.4	1484.5	1325.0	1148.7	1101.1	1088.5
67.5°	4501.1	2473.7	910.9	936.0	1022.8	1220.1	1404.8	1264.8	1087.1	1062.0	1042.4
70°	2491.9	1522.3	835.3	864.7	944.4	1116.5	1315.2	1173.9	997.6	986.4	958.4
72.5°	1309.6	969.6	750.0	782.1	838.1	983.6	1178.1	1074.6	909.5	861.9	825.5
74°	1022.8	794.7	692.6	726.2	763.9	905.3	1096.9	1003.2	846.5	790.5	762.5
75°	891.3	708.0	643.6	687.0	720.6	852.1	1034.0	952.8	811.5	758.3	733.2
77.5°	629.6	530.3	526.1	577.9	596.0	747.2	931.8	867.5	723.4	667.4	643.6
80°	442.1	397.4	417.0	449.1	474.3	660.4	864.7	750.0	593.2	527.5	519.1
82.5°	288.2	260.2	298.0	327.4	335.8	486.9	698.2	569.5	432.3	351.2	326.0
85°	132.9	130.1	170.7	166.5	165.1	237.9	414.2	333.0	249.1	186.1	174.9
87.5°	33.6	32.2	42.0	35.0	42.0	36.4	37.8	9.8	1.4	0.0	0.0
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)