

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: P456182

Luminaire Tested: **GALN-SA7B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31674 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

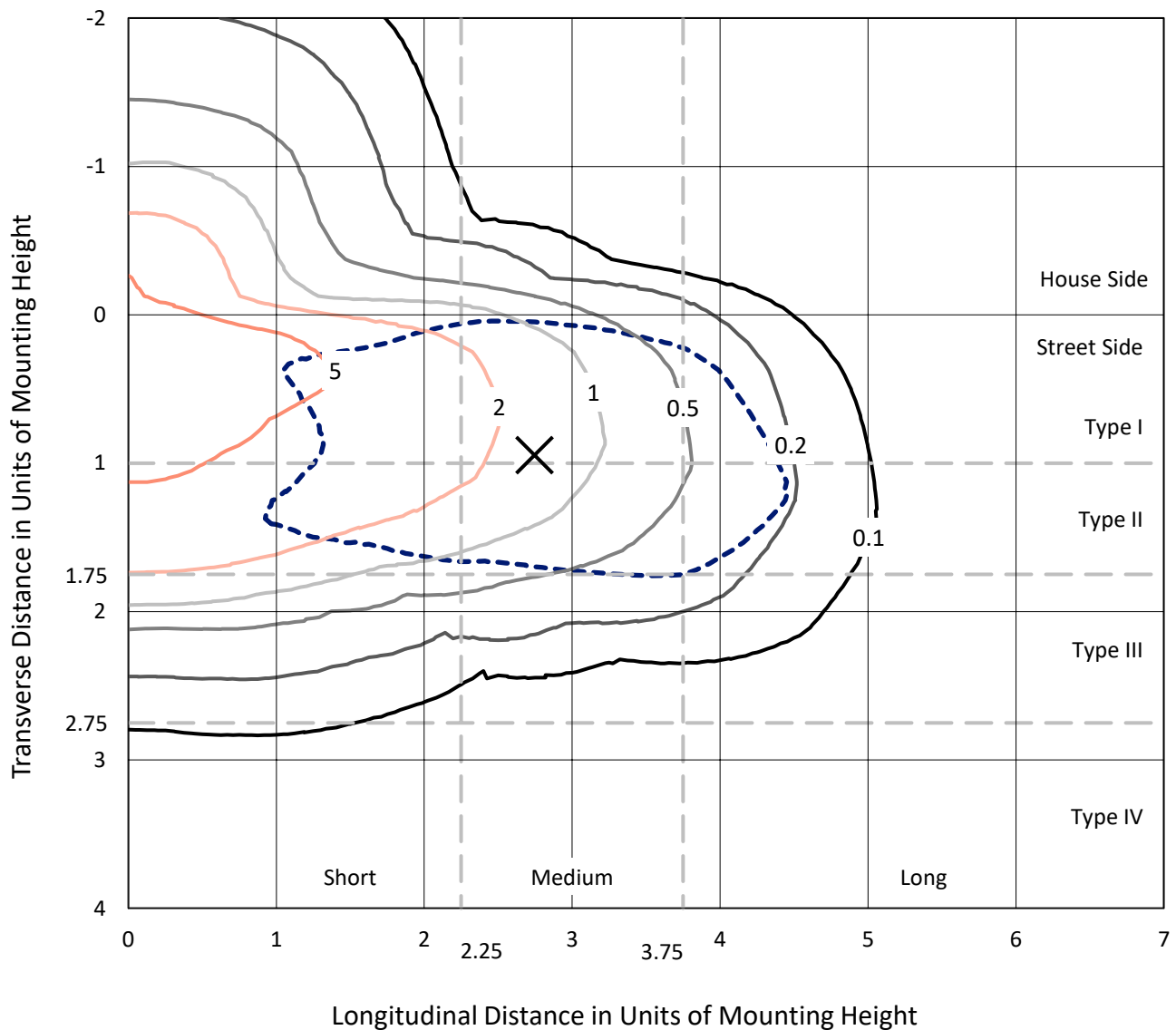


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

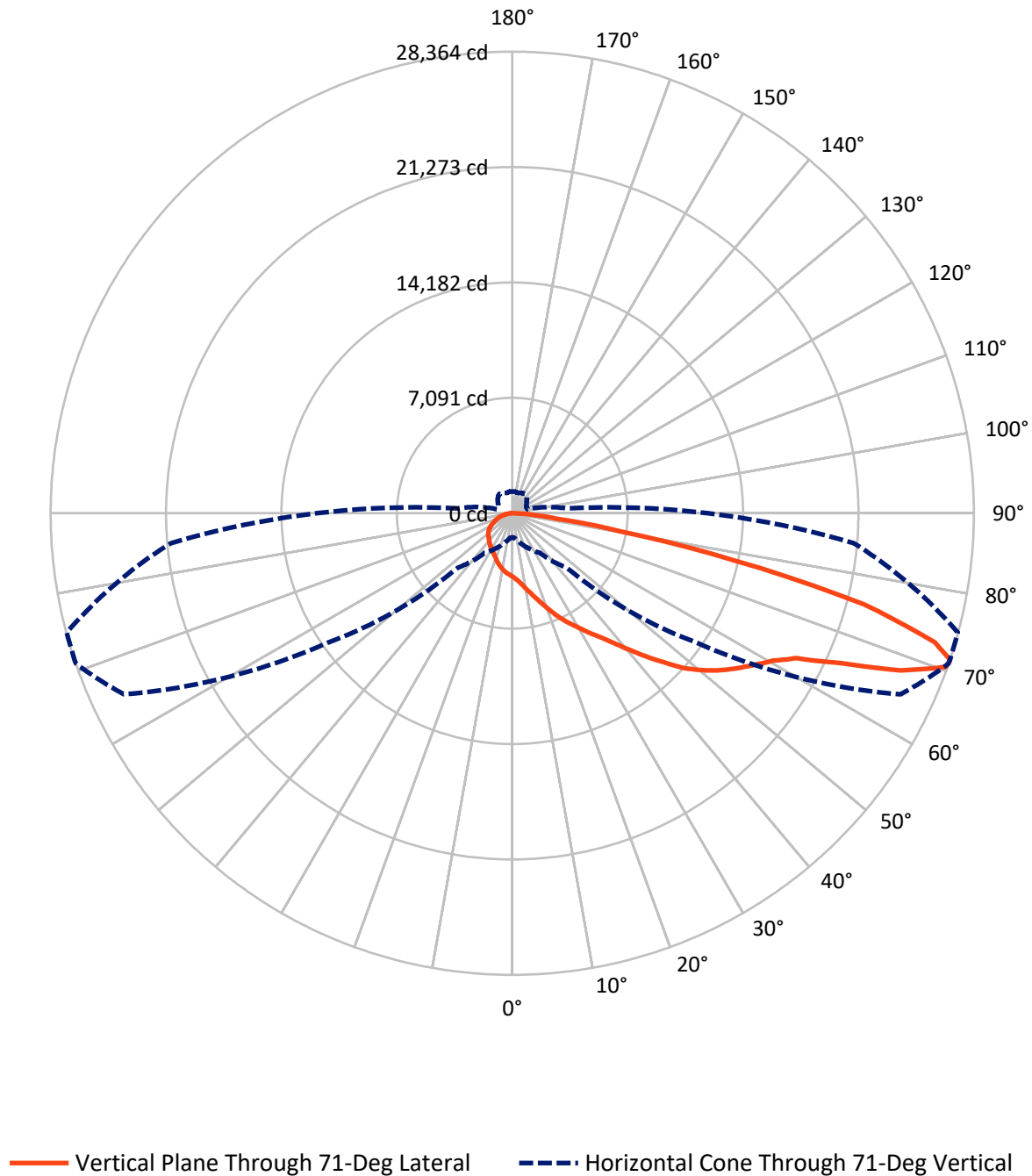


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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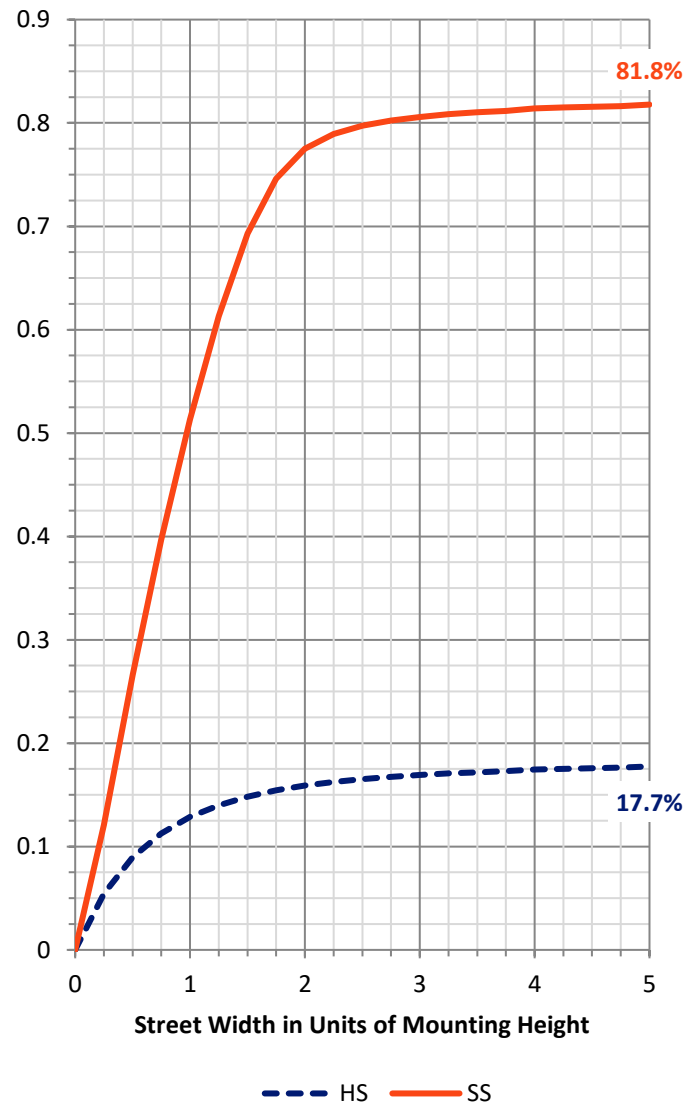
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5696.5	0.0	5696.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	25977.5	0.0	25977.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	31674.0	0.0	31674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.3	1.2
10°-20°	1268.1	4.0
20°-30°	2216.1	7.0
30°-40°	3296.2	10.4
40°-50°	4856.5	15.3
50°-60°	6799.2	21.5
60°-70°	7604.7	24.0
70°-80°	4645.2	14.7
80°-90°	597.6	1.9
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°	31674.0	100.0
0°-180°	31674.0	100.0

Coefficient of Utilization



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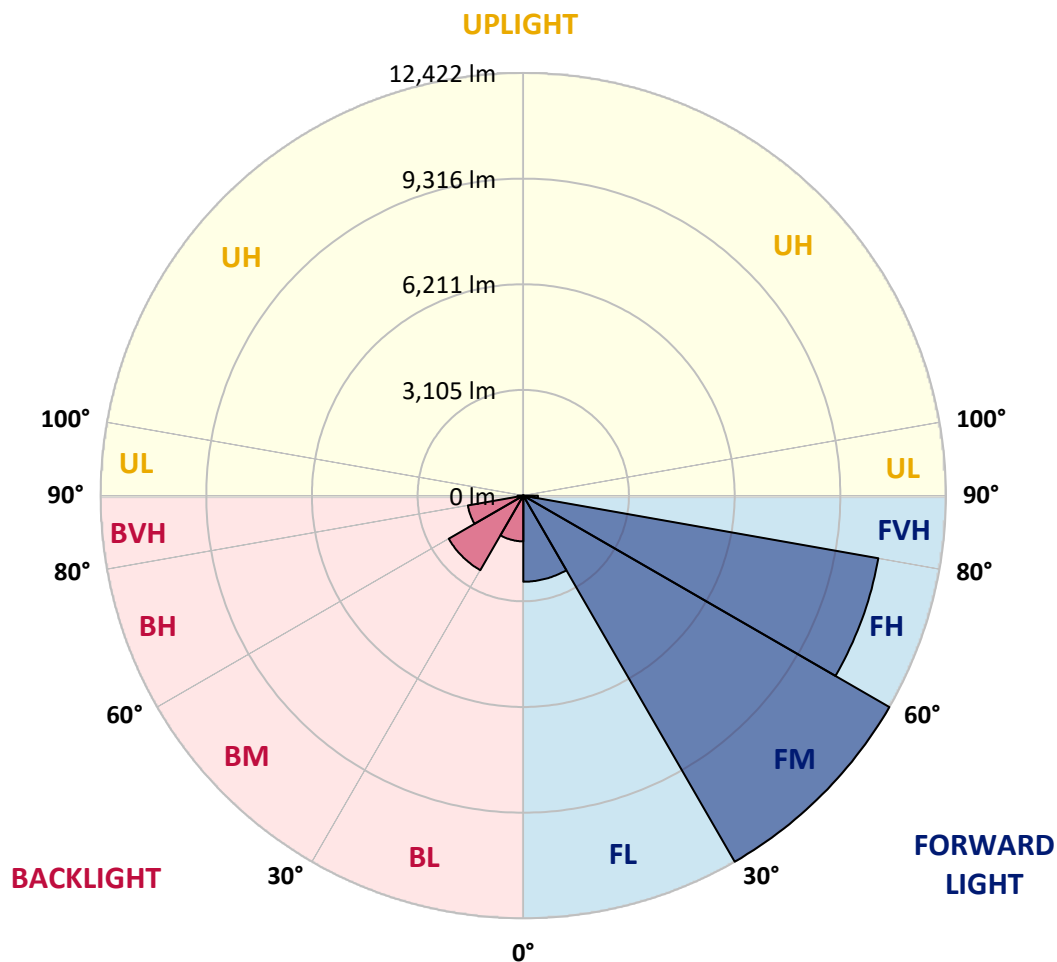
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2530.8	8.0			
FM	(30°-60°)	12421.9	39.2			
FH	(60°-80°)	10594.9	33.4			G4/12000
FVH	(80°-90°)	430.0	1.4			G3/500
BL	(0°-30°)	1343.8	4.2	B3/2500		
BM	(30°-60°)	2530.0	8.0	B3/5000		
BH	(60°-80°)	1655.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	167.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4
2.5°	4315.6	4294.7	4296.5	4266.9	4228.6	4186.8	4127.6	4075.4	4033.6	4009.2	3937.8
5°	4782.2	4761.3	4735.2	4670.7	4642.9	4540.2	4409.6	4291.2	4200.7	4150.2	4007.5
7.5°	5159.9	5154.7	5147.7	5111.2	5039.8	4897.1	4785.6	4580.2	4446.2	4350.4	4106.7
10°	5393.2	5401.9	5407.1	5414.1	5384.5	5309.6	5156.5	4897.1	4726.5	4604.6	4235.5
12.5°	5511.6	5520.3	5549.9	5614.3	5654.3	5645.6	5520.3	5266.1	5031.1	4870.9	4373.1
15°	5584.7	5598.6	5650.9	5736.2	5870.2	5955.5	5894.6	5659.6	5401.9	5212.2	4536.7
17.5°	5664.8	5680.5	5737.9	5859.8	6035.6	6220.1	6286.3	6084.3	5804.1	5577.7	4719.5
20°	5710.0	5730.9	5812.8	5972.9	6178.3	6446.4	6665.8	6559.6	6253.2	6002.5	4930.1
22.5°	5783.2	5800.6	5870.2	6040.8	6286.3	6622.3	7045.3	7022.7	6752.8	6429.0	5161.7
25°	5981.6	6009.5	6044.3	6147.0	6383.8	6801.6	7360.4	7517.1	7236.8	6874.7	5374.1
27.5°	6355.9	6378.5	6376.8	6390.7	6524.8	6956.5	7633.7	8006.3	7717.3	7325.6	5579.5
30°	6782.4	6791.1	6798.1	6766.8	6796.3	7114.9	7884.4	8490.2	8201.2	7788.6	5758.8
32.5°	7301.2	7318.6	7259.4	7179.3	7155.0	7349.9	8091.6	8974.2	8774.0	8258.7	5936.4
35°	7914.0	7959.2	7839.1	7698.1	7598.9	7687.7	8370.1	9468.6	9360.6	8859.3	6171.4
37.5°	8613.8	8669.5	8558.1	8281.3	8140.3	8164.7	8733.9	10079.6	10102.3	9543.4	6521.3
40°	9186.6	9259.7	9263.2	8871.5	8657.3	8685.2	9195.3	10737.7	10997.1	10389.5	6933.9
42.5°	9564.3	9635.7	9710.6	9480.8	9256.2	9414.6	9733.2	11451.4	12003.3	11416.6	7510.1
45°	9978.7	10043.1	10084.8	9980.4	9855.1	10265.9	10382.5	12210.4	13075.7	12563.8	8140.3
47.5°	10459.1	10530.5	10570.6	10471.3	10424.3	11012.7	11082.4	12919.0	14221.2	13678.0	8836.6
50°	11099.8	11153.7	11132.9	11070.2	11059.7	11585.5	11754.3	13582.3	15166.4	14877.5	9559.1
52.5°	11897.1	11961.5	11984.1	11895.4	11855.3	11994.6	12295.8	14186.3	16026.4	15908.1	10330.3
55°	12379.3	12482.0	12826.7	12966.0	13061.7	12523.8	12878.9	14853.1	16797.6	16994.4	11159.0
57.5°	11761.3	11893.6	12664.8	13361.2	14261.2	13846.9	13705.9	15549.4	17568.8	18047.6	12151.3
60°	10253.7	10283.3	11277.3	12560.4	14370.9	15547.7	15431.1	16656.6	18404.5	19109.5	13458.7
62.5°	7113.2	7175.9	8350.9	10398.2	13016.5	16160.5	18366.2	18568.1	19602.2	20698.9	15375.3
65°	3668.0	3586.2	4656.8	6535.2	9813.3	14705.1	20744.2	22082.9	22199.6	23184.9	18073.7
67.5°	2257.9	2294.5	2795.8	3816.0	5802.3	10687.2	20495.2	26377.6	25763.1	26236.6	20578.8
70°	1695.6	1740.9	2085.6	2611.3	3537.4	6110.4	16482.5	27418.7	28276.9	28155.1	21341.3
71°	1474.5	1521.5	1880.1	2376.3	2971.7	4716.0	13886.9	26328.9	28364.0	28343.1	21054.1
72.5°	1256.9	1286.5	1566.8	2012.4	2505.1	3305.9	10433.0	23613.1	27154.1	27848.7	20028.7
75°	987.1	1009.7	1135.0	1535.4	1972.4	2029.9	5598.6	17702.9	22302.3	23625.3	16674.0
77.5°	804.3	819.9	884.4	1140.3	1521.5	1438.0	2936.8	11522.8	13972.2	15304.0	9822.0
80°	638.9	656.3	694.6	772.9	1140.3	1025.4	1401.4	5838.9	6749.3	6735.4	3920.4
82.5°	496.1	501.4	546.6	567.5	779.9	727.7	759.0	2472.0	2738.4	2828.9	1415.3
85°	313.4	329.0	484.0	435.2	466.6	426.5	374.3	981.8	1209.9	1192.5	565.8
87.5°	95.7	101.0	163.6	184.5	207.2	186.3	137.5	289.0	353.4	383.0	141.0
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°	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4	3887.4
2.5°	3910.0	3890.8	3822.9	3767.2	3715.0	3657.6	3608.8	3594.9	3582.7	3577.5	3575.7
5°	3946.5	3889.1	3755.1	3645.4	3558.3	3478.3	3427.8	3405.1	3382.5	3382.5	3389.5
7.5°	3998.8	3894.3	3687.2	3523.5	3413.8	3339.0	3302.4	3298.9	3304.2	3309.4	3311.1
10°	4056.2	3890.8	3587.9	3384.2	3286.8	3251.9	3253.7	3283.3	3311.1	3332.0	3335.5
12.5°	4111.9	3870.0	3471.3	3253.7	3191.0	3198.0	3246.7	3312.9	3366.8	3396.4	3398.2
15°	4174.6	3836.9	3330.3	3130.1	3109.2	3163.2	3253.7	3354.7	3436.5	3485.2	3490.4
17.5°	4226.8	3781.2	3182.3	3010.0	3036.1	3135.3	3260.6	3391.2	3490.4	3551.4	3561.8
20°	4286.0	3709.8	3029.1	2895.1	2969.9	3104.0	3246.7	3387.7	3490.4	3549.6	3563.6
22.5°	4333.0	3608.8	2882.9	2801.1	2910.7	3065.7	3199.7	3312.9	3396.4	3427.8	3448.7
25°	4352.2	3481.7	2745.3	2724.5	2863.7	3003.0	3093.5	3157.9	3184.0	3180.6	3189.3
27.5°	4341.7	3335.5	2627.0	2663.5	2804.5	2905.5	2950.8	2945.5	2898.5	2855.0	2875.9
30°	4298.2	3161.4	2527.7	2600.9	2727.9	2783.6	2776.7	2708.8	2620.0	2538.2	2543.4
32.5°	4219.9	2973.4	2435.5	2529.5	2620.0	2644.4	2597.4	2508.6	2381.5	2275.3	2259.6
35°	4153.7	2794.1	2353.7	2447.7	2512.1	2499.9	2454.6	2339.7	2224.8	2130.8	2115.2
37.5°	4143.3	2640.9	2275.3	2355.4	2392.0	2374.5	2318.8	2221.3	2179.6	2108.2	2099.5
40°	4199.0	2533.0	2195.2	2257.9	2275.3	2261.4	2200.5	2144.7	2183.0	2165.6	2165.6
42.5°	4350.4	2475.5	2123.9	2160.4	2174.3	2184.8	2141.3	2094.3	2141.3	2061.2	2035.1
45°	4590.7	2477.3	2059.4	2064.7	2106.5	2143.0	2113.4	2043.8	2019.4	1859.2	1827.9
47.5°	4944.1	2536.4	2007.2	1974.1	2049.0	2109.9	2068.2	1967.2	1859.2	1753.1	1733.9
50°	5356.7	2642.6	1960.2	1880.1	1972.4	2068.2	2036.8	1918.4	1807.0	1742.6	1730.4
52.5°	5814.5	2776.7	1902.8	1775.7	1878.4	2049.0	2043.8	1911.5	1758.3	1714.8	1704.3
55°	6380.3	2909.0	1831.4	1653.8	1794.8	2033.3	2024.6	1854.0	1747.8	1716.5	1713.0
57.5°	7038.3	3100.5	1728.7	1530.2	1699.1	1968.9	1949.8	1819.2	1713.0	1690.4	1688.6
60°	8098.5	3398.2	1582.4	1417.1	1601.6	1855.8	1880.1	1760.0	1657.3	1652.1	1650.3
62.5°	9493.0	3816.0	1431.0	1300.4	1488.4	1709.5	1779.2	1679.9	1598.1	1624.2	1627.7
65°	11418.4	4167.6	1274.3	1201.2	1363.1	1568.5	1683.4	1605.1	1532.0	1582.4	1582.4
67.5°	12673.5	4174.6	1131.6	1098.5	1236.0	1450.1	1582.4	1516.3	1446.7	1532.0	1535.4
70°	12412.4	3657.6	1013.2	990.6	1112.4	1323.1	1471.0	1418.8	1338.7	1415.3	1387.5
71°	11991.1	3370.3	966.2	948.8	1063.7	1262.1	1418.8	1375.3	1295.2	1345.7	1330.0
72.5°	11319.1	2926.4	889.6	893.1	990.6	1185.5	1345.7	1300.4	1220.3	1248.2	1243.0
75°	9567.8	2555.6	760.8	776.4	851.3	1055.0	1199.5	1164.6	1082.8	1082.8	1077.6
77.5°	5981.6	1786.1	631.9	640.6	722.5	903.5	1030.6	1001.0	922.7	896.5	889.6
80°	2231.8	922.7	494.4	504.9	555.3	712.0	853.0	825.2	745.1	715.5	687.6
82.5°	844.3	463.1	363.8	355.1	409.1	543.2	668.5	635.4	572.7	501.4	480.5
85°	318.6	229.8	222.8	215.9	240.2	322.1	414.3	407.4	341.2	290.7	285.5
87.5°	83.6	74.9	87.0	64.4	67.9	60.9	62.7	26.1	12.2	5.2	3.5
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)