

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: P452942

Luminaire Tested: **GALN-SA3D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452942
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-SA3D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA 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: 18311 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184
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

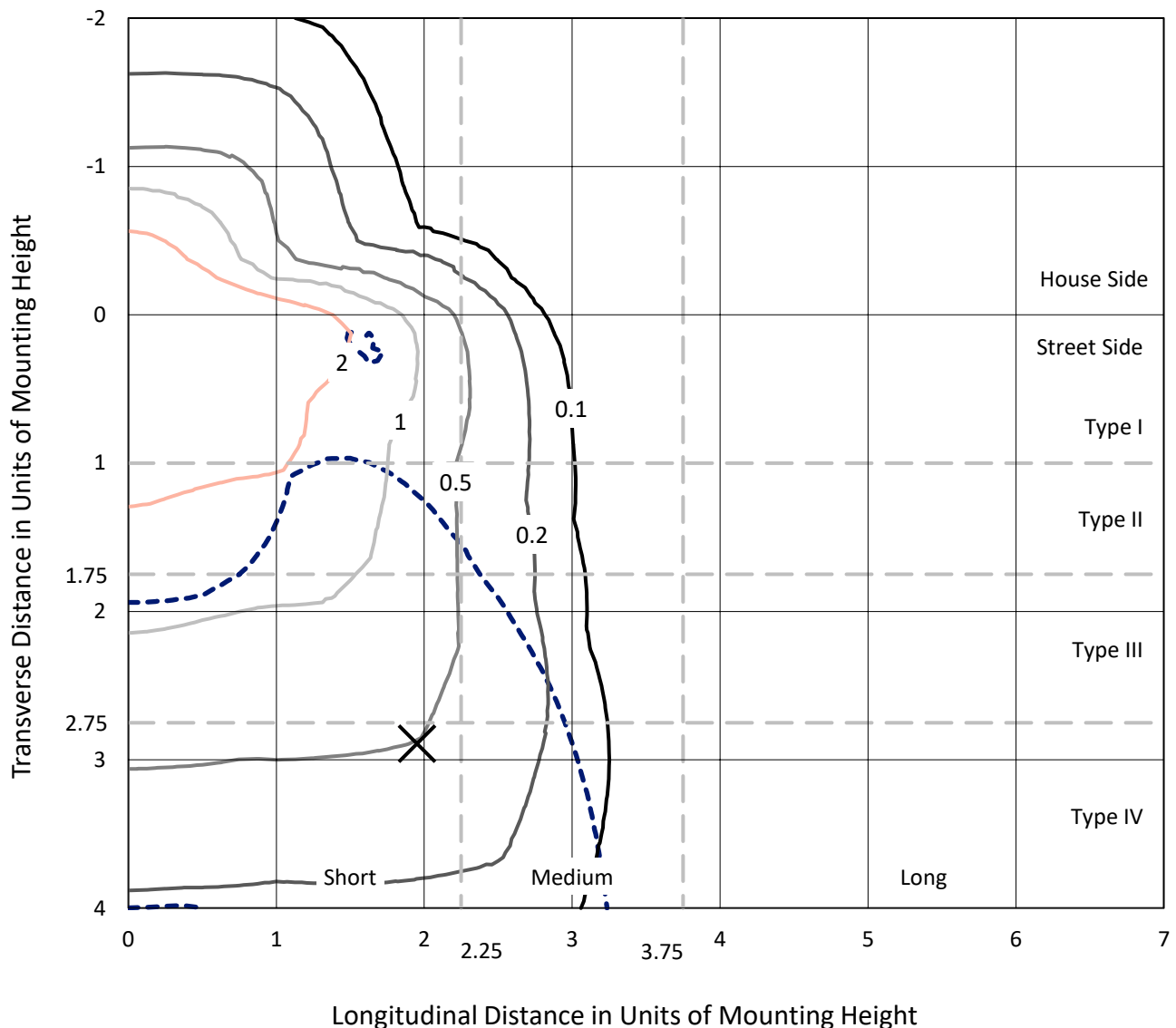


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

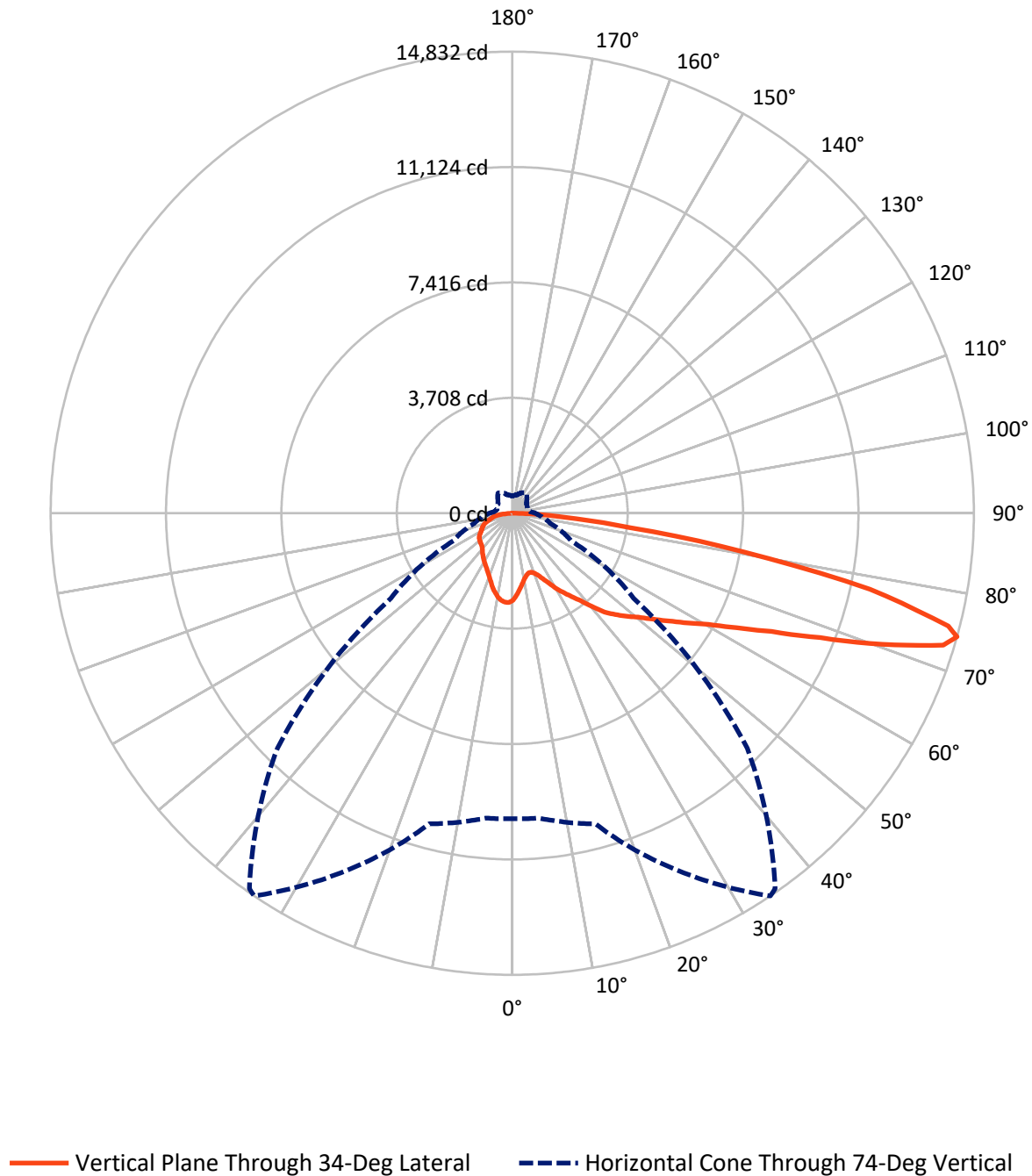


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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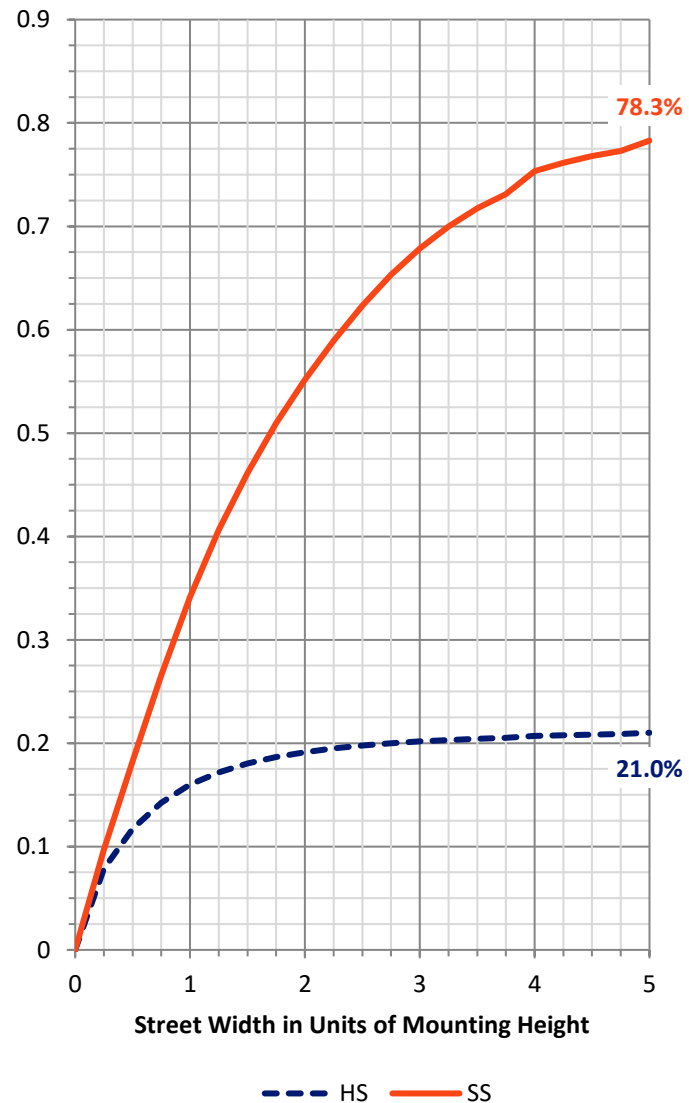
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3896.7	0.0	3896.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	14414.3	0.0	14414.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	18311.0	0.0	18311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	1.4
10°-20°	696.0	3.8
20°-30°	1147.6	6.3
30°-40°	1718.9	9.4
40°-50°	2498.8	13.6
50°-60°	3490.3	19.1
60°-70°	4369.6	23.9
70°-80°	3613.3	19.7
80°-90°	522.1	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°	18311.0	100.0
0°-180°	18311.0	100.0

Coefficient of Utilization



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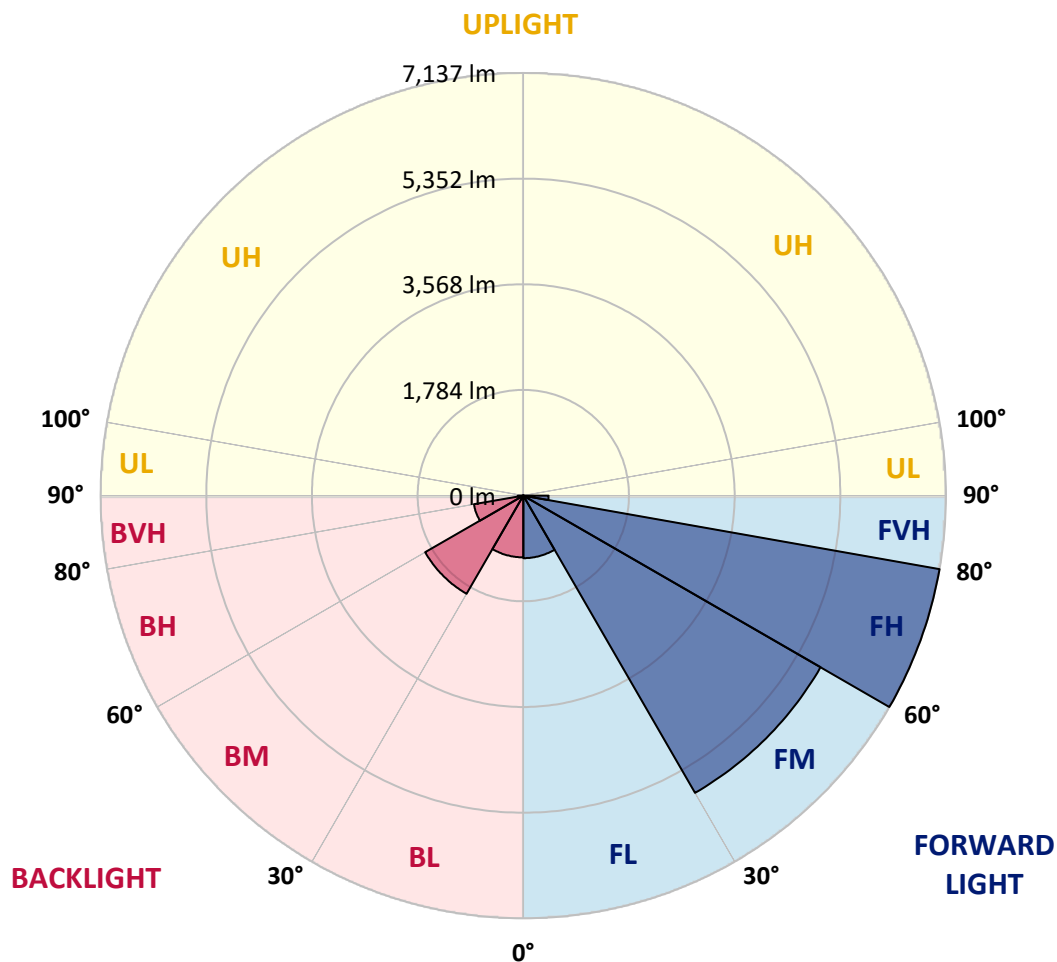
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.5	5.8			
FM	(30°-60°)	5794.4	31.6			
FH	(60°-80°)	7136.7	39.0			G3/7500
FVH	(80°-90°)	427.7	2.3			G3/500
BL	(0°-30°)	1042.3	5.7	B3/2500		
BM	(30°-60°)	1913.7	10.5	B2/2500		
BH	(60°-80°)	846.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	94.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7
2.5°	2583.7	2596.9	2604.0	2629.4	2635.4	2643.6	2664.9	2693.3	2729.8	2762.3	2790.7
5°	2368.7	2388.9	2401.1	2423.4	2467.1	2471.1	2527.9	2592.8	2666.9	2735.9	2792.7
7.5°	2164.8	2187.1	2197.2	2237.8	2295.6	2304.8	2387.9	2490.4	2614.1	2718.6	2805.9
10°	2011.6	2022.7	2045.1	2075.5	2144.5	2150.6	2259.1	2396.0	2556.3	2710.5	2828.2
12.5°	1928.4	1934.5	1939.6	1972.0	2040.0	2049.1	2162.7	2317.9	2510.7	2716.6	2864.7
15°	1940.6	1942.6	1920.3	1926.4	1981.2	1994.3	2106.9	2266.2	2482.3	2731.8	2919.5
17.5°	2043.0	2035.9	1981.2	1952.7	1991.3	1997.4	2095.8	2245.9	2469.1	2760.2	2976.3
20°	2204.3	2194.2	2099.8	2036.9	2059.3	2064.3	2132.3	2261.1	2482.3	2806.9	3064.5
22.5°	2405.2	2401.1	2258.1	2182.0	2181.0	2181.0	2216.5	2315.9	2521.8	2870.8	3156.9
25°	2686.2	2664.9	2478.2	2379.8	2352.4	2350.4	2346.3	2406.2	2572.6	2938.8	3266.4
27.5°	2974.3	2937.7	2771.4	2620.2	2561.4	2554.3	2527.9	2534.0	2637.5	3015.9	3391.2
30°	3232.9	3209.6	3053.4	2886.0	2816.0	2799.8	2726.7	2693.3	2746.0	3154.8	3590.0
32.5°	3430.8	3416.5	3294.8	3142.7	3039.2	3036.1	2929.6	2902.2	2915.4	3323.2	3817.2
35°	3591.0	3596.1	3534.2	3402.3	3283.7	3266.4	3195.4	3160.9	3122.4	3566.7	4103.3
37.5°	3810.1	3821.3	3817.2	3703.6	3558.6	3562.6	3546.4	3489.6	3387.1	3838.5	4420.8
40°	4051.6	4059.7	4058.7	4015.1	3939.0	3943.0	3936.9	3872.0	3718.8	4184.5	4773.8
42.5°	4385.3	4346.8	4246.3	4290.0	4334.6	4353.9	4395.5	4333.6	4123.6	4553.7	5105.6
45°	4758.6	4685.6	4458.4	4478.6	4644.0	4680.5	4909.8	4824.6	4562.8	4977.7	5496.1
47.5°	4994.0	4921.9	4730.2	4726.2	4945.3	4980.8	5386.5	5355.1	4962.5	5435.2	5972.9
50°	5203.9	5193.8	4977.7	5029.5	5243.5	5296.3	5905.9	5876.5	5361.2	5974.9	6492.3
52.5°	5515.4	5433.2	5260.8	5367.3	5650.3	5719.3	6421.2	6335.0	5727.4	6451.7	6996.4
55°	5655.4	5636.1	5625.9	5718.3	6106.8	6156.5	6922.4	6724.6	6039.8	6855.4	7379.9
57.5°	6029.7	5994.2	6094.6	6157.5	6644.4	6720.5	7445.8	7131.3	6313.7	7176.0	7566.5
60°	6514.6	6495.3	6587.6	6701.2	7245.0	7360.6	8042.3	7478.3	6533.8	7337.3	7464.1
62.5°	7238.9	7236.8	7219.6	7463.1	8096.0	8202.6	8727.0	7816.1	6568.3	7216.5	6934.5
65°	8277.6	8241.1	8091.0	8356.8	9155.1	9279.9	9440.1	8004.7	6360.4	6596.7	5839.0
67.5°	9364.1	9362.0	9240.3	9585.2	10675.7	10804.5	10331.8	7963.2	5783.2	5343.9	4146.9
70°	10264.9	10221.2	10376.5	11295.5	12618.3	12767.4	11111.9	7473.2	4606.5	3529.1	2464.0
72.5°	10480.9	10483.0	10805.5	12614.2	14483.8	14507.1	11392.9	6057.1	3082.8	1946.7	1232.5
74°	9815.5	9832.7	10332.8	12680.2	14831.8	14726.3	10674.7	4760.6	2084.6	1271.1	888.6
75°	8959.3	8850.8	9574.0	12240.9	14470.6	14357.0	9833.7	3820.3	1590.6	1015.4	778.1
77.5°	4790.1	4900.6	6016.5	9134.8	11756.1	11625.2	6667.7	1832.0	859.2	707.0	560.0
80°	1705.2	1880.7	2643.6	4779.9	7537.1	7577.7	3182.2	839.9	604.6	521.4	395.6
82.5°	695.9	715.2	1135.1	2121.1	3827.4	3863.9	1299.5	499.1	432.1	359.1	236.4
85°	271.9	280.0	502.1	953.6	1633.2	1739.7	449.4	263.7	265.8	205.9	120.7
87.5°	91.3	103.5	205.9	317.5	554.9	543.7	130.9	78.1	95.4	89.3	37.5
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°	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7	2795.7
2.5°	2804.9	2824.1	2837.3	2851.5	2864.7	2868.8	2865.7	2874.9	2875.9	2876.9	2877.9
5°	2821.1	2847.5	2872.8	2887.0	2893.1	2888.0	2870.8	2861.7	2853.5	2847.5	2849.5
7.5°	2843.4	2880.9	2904.3	2910.4	2894.1	2870.8	2828.2	2794.7	2773.4	2759.2	2758.2
10°	2877.9	2914.4	2933.7	2916.4	2871.8	2815.0	2748.1	2685.2	2637.5	2623.3	2622.3
12.5°	2921.5	2963.1	2962.1	2911.4	2833.3	2731.8	2623.3	2550.2	2485.3	2452.9	2466.0
15°	2978.3	3009.8	2980.4	2889.1	2765.3	2626.3	2492.4	2393.0	2320.0	2285.5	2287.5
17.5°	3044.3	3071.6	2993.5	2849.5	2669.9	2491.4	2336.2	2241.9	2184.0	2158.7	2156.6
20°	3126.4	3134.5	2993.5	2780.5	2547.2	2334.2	2186.1	2120.1	2087.7	2074.5	2078.5
22.5°	3214.7	3198.5	2977.3	2683.1	2385.9	2169.8	2070.4	2041.0	2024.8	2022.7	2024.8
25°	3314.1	3268.4	2943.8	2551.3	2217.5	2027.8	1970.0	1975.1	1978.1	1978.1	1985.2
27.5°	3435.8	3344.5	2888.0	2384.9	2020.7	1895.9	1879.7	1915.2	1931.4	1934.5	1939.6
30°	3596.1	3427.7	2795.7	2176.9	1853.3	1777.3	1805.7	1853.3	1871.6	1882.8	1880.7
32.5°	3786.8	3519.0	2671.0	1969.0	1718.4	1694.1	1728.6	1777.3	1797.5	1803.6	1795.5
35°	4011.0	3622.5	2506.6	1774.2	1600.7	1614.9	1655.5	1670.7	1689.0	1689.0	1693.1
37.5°	4252.4	3705.7	2305.8	1595.7	1509.4	1561.2	1590.6	1576.4	1568.3	1558.1	1563.2
40°	4497.9	3767.5	2045.1	1419.2	1418.2	1505.4	1513.5	1472.9	1440.5	1430.3	1425.3
42.5°	4712.0	3806.1	1809.7	1282.2	1331.9	1450.6	1456.7	1391.8	1340.0	1309.6	1299.5
45°	4964.5	3850.7	1579.4	1168.6	1251.8	1407.0	1422.2	1335.0	1258.9	1195.0	1178.8
47.5°	5310.5	3952.2	1397.9	1080.4	1194.0	1379.6	1400.9	1288.3	1187.9	1104.7	1091.5
50°	5701.0	4091.1	1256.9	1020.5	1149.3	1355.3	1381.6	1240.6	1121.9	1029.6	1019.5
52.5°	6059.1	4166.2	1135.1	966.7	1105.7	1310.6	1356.3	1206.1	1057.0	954.6	945.4
55°	6254.9	4044.5	1015.4	914.0	1045.9	1252.8	1320.8	1158.5	994.1	915.0	901.8
57.5°	6281.3	3792.9	906.9	857.2	983.0	1181.8	1254.8	1100.6	953.6	887.6	876.5
60°	6077.4	3417.6	822.7	810.5	919.1	1101.7	1180.8	1049.9	912.0	857.2	846.0
62.5°	5570.2	3009.8	763.9	767.9	854.1	1017.5	1126.0	1001.2	872.4	823.7	813.6
65°	4697.8	2484.3	707.0	724.3	796.3	951.5	1076.3	960.7	832.8	798.3	789.2
67.5°	3263.4	1793.5	660.4	678.6	741.5	884.6	1018.5	917.0	788.2	769.9	755.7
70°	1806.7	1103.7	605.6	626.9	684.7	809.5	953.6	851.1	723.3	715.2	694.9
72.5°	949.5	703.0	543.7	567.1	607.6	713.1	854.1	779.1	659.4	624.9	598.5
74°	741.5	576.2	502.1	526.5	553.9	656.3	795.3	727.3	613.7	573.1	552.9
75°	646.2	513.3	466.6	498.1	522.4	617.8	749.7	690.8	588.4	549.8	531.6
77.5°	456.5	384.5	381.4	419.0	432.1	541.7	675.6	628.9	524.5	483.9	466.6
80°	320.6	288.1	302.3	325.6	343.9	478.8	626.9	543.7	430.1	382.4	376.3
82.5°	209.0	188.7	216.1	237.4	243.5	353.0	506.2	412.9	313.5	254.6	236.4
85°	96.4	94.3	123.8	120.7	119.7	172.5	300.3	241.4	180.6	134.9	126.8
87.5°	24.3	23.3	30.4	25.4	30.4	26.4	27.4	7.1	1.0	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)