

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: P194696

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T2-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30844 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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: 25 FT



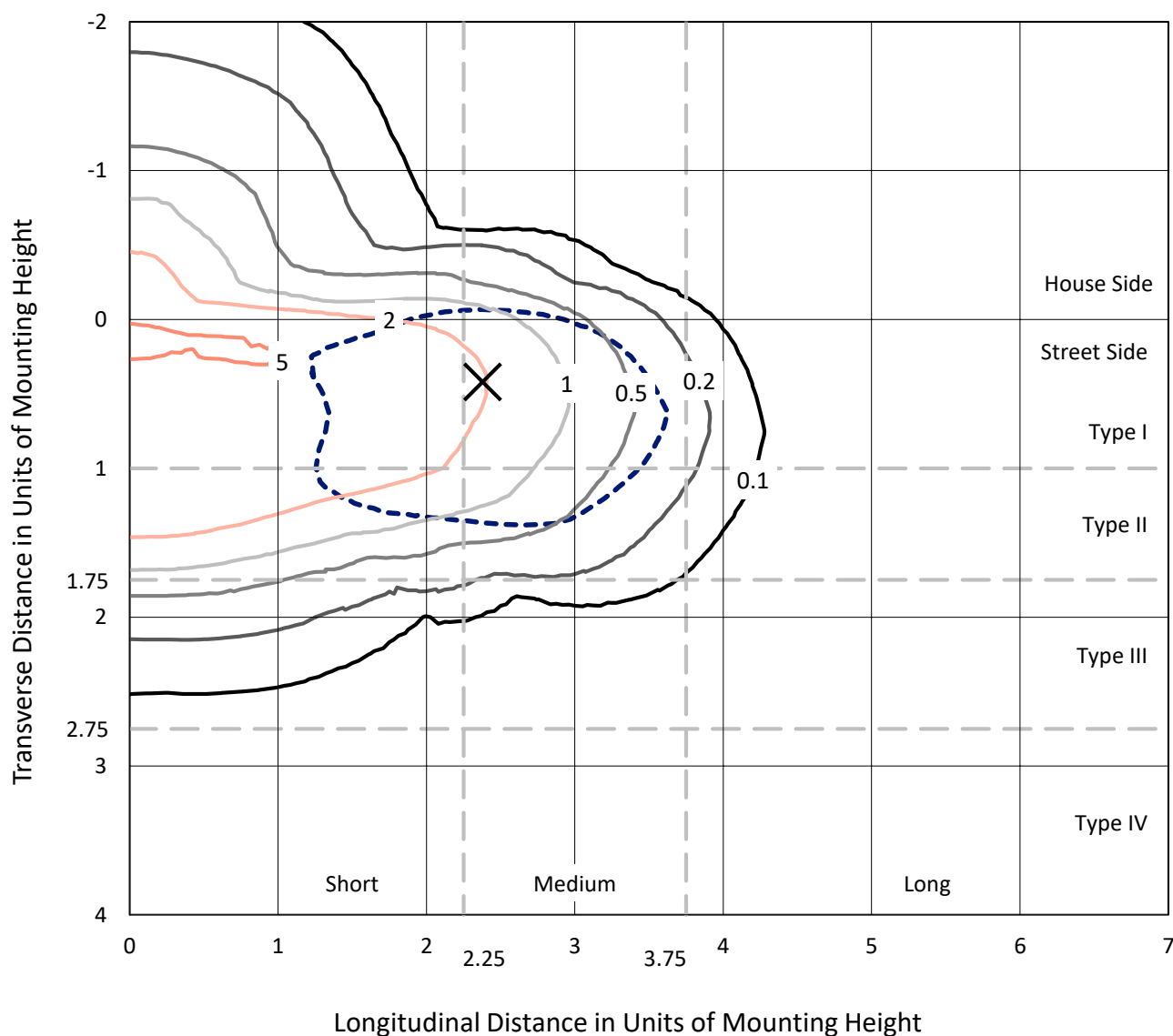
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

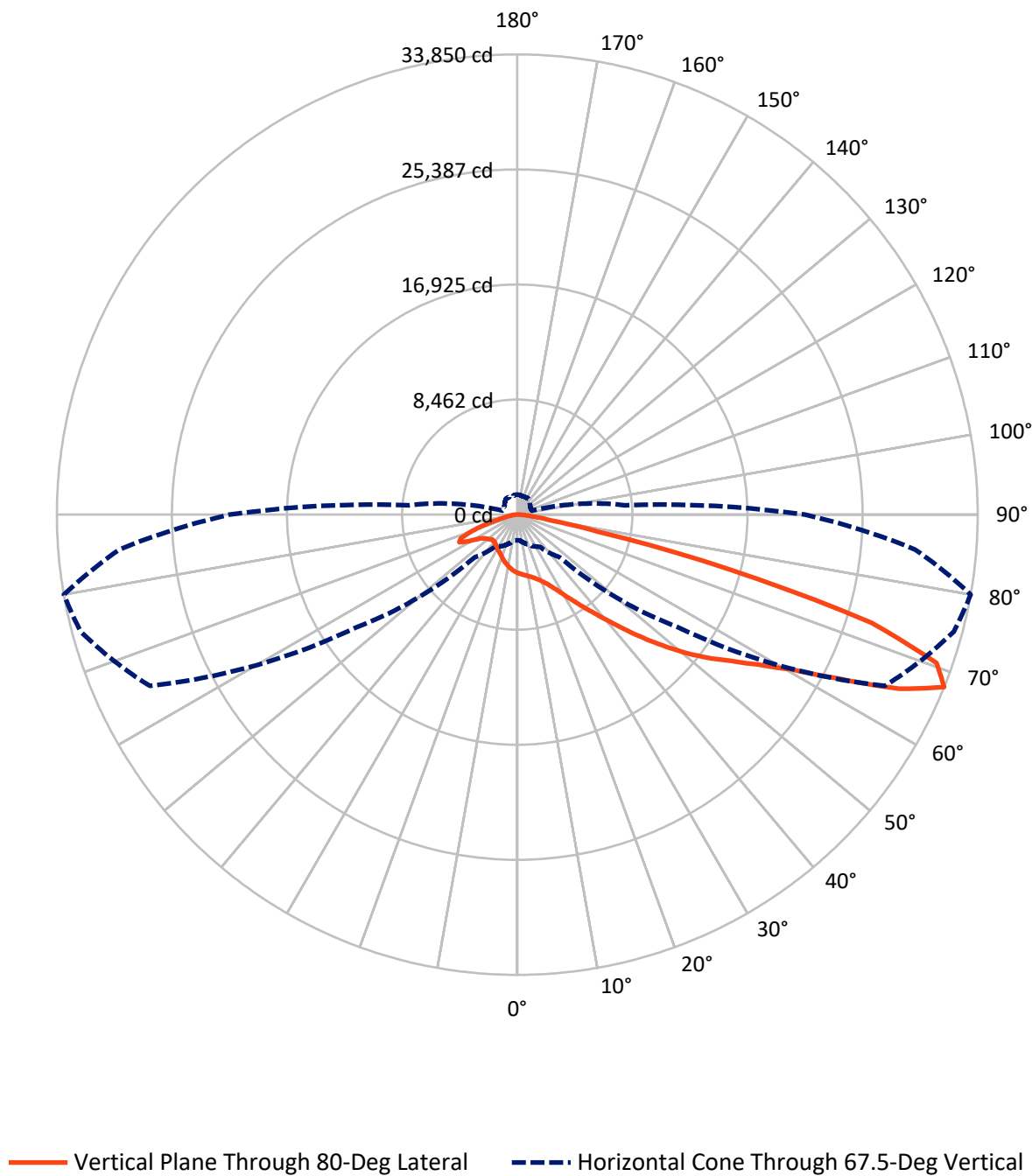


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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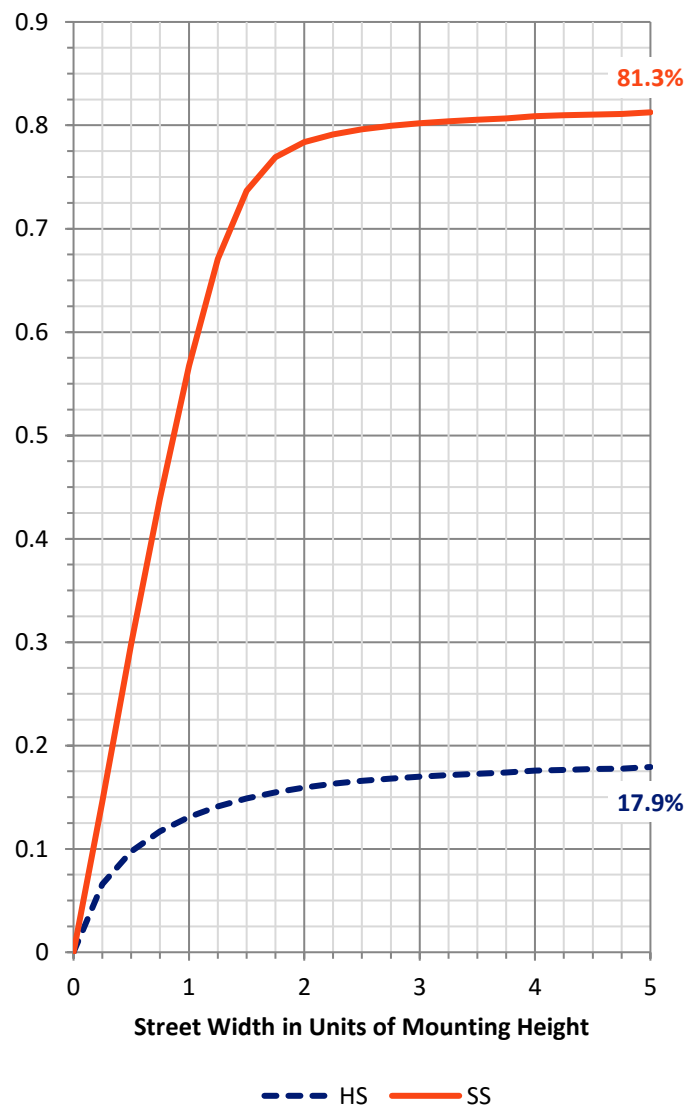
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5680.3	0.0	5680.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	25163.7	0.0	25163.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	30844.0	0.0	30844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.3	1.3
10°-20°	1138.7	3.7
20°-30°	1884.8	6.1
30°-40°	3083.0	10.0
40°-50°	4977.9	16.1
50°-60°	7186.6	23.3
60°-70°	7930.8	25.7
70°-80°	3655.6	11.9
80°-90°	591.3	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°	30844.0	100.0
0°-180°	30844.0	100.0

Coefficient of Utilization



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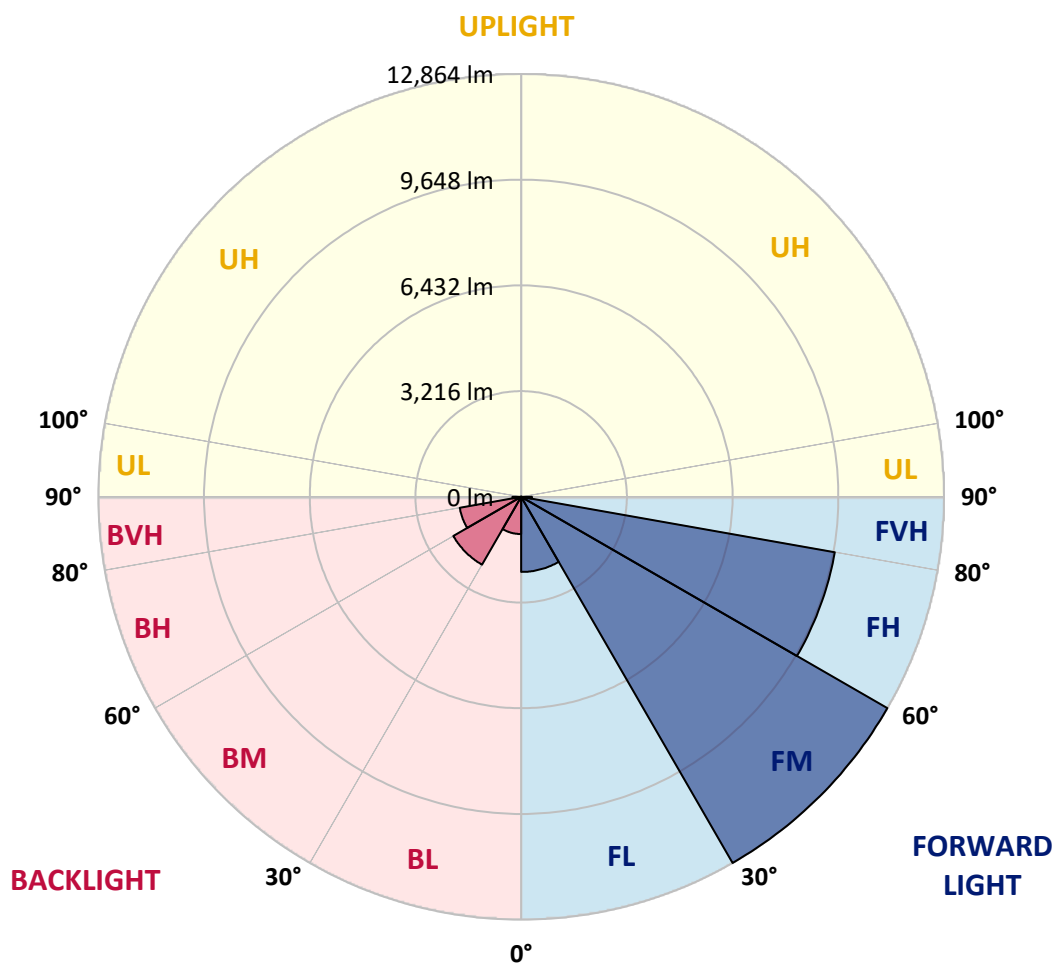
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2285.5	7.4			
FM	(30°-60°)	12864.3	41.7			
FH	(60°-80°)	9688.9	31.4			G4/12000
FVH	(80°-90°)	325.1	1.1			G3/500
BL	(0°-30°)	1133.3	3.7	B3/2500		
BM	(30°-60°)	2383.2	7.7	B2/2500		
BH	(60°-80°)	1897.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	266.2	0.9			G3/500
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°	75°	80°	85°
0°	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1
2.5°	4687.5	4660.2	4664.7	4657.2	4634.4	4594.9	4552.4	4474.9	4394.5	4351.9	4318.5
5°	5079.3	5071.7	5061.1	5036.8	4979.1	4897.1	4795.3	4658.7	4511.4	4433.9	4359.5
7.5°	5372.4	5367.8	5354.1	5338.9	5282.8	5184.1	5030.7	4836.3	4622.2	4515.9	4400.5
10°	5396.7	5404.2	5414.9	5455.9	5463.5	5410.3	5253.9	5018.6	4737.6	4601.0	4453.7
12.5°	5190.1	5206.8	5247.8	5352.6	5463.5	5528.8	5448.3	5209.9	4872.8	4707.3	4520.5
15°	4916.8	4925.9	4976.0	5120.3	5319.2	5521.2	5597.1	5420.9	5047.4	4843.9	4620.7
17.5°	4799.9	4804.4	4839.4	4935.0	5120.3	5408.8	5680.6	5650.2	5261.5	5014.0	4743.7
20°	4740.7	4751.3	4801.4	4895.6	5012.5	5264.5	5692.8	5897.7	5516.6	5226.6	4898.6
22.5°	4909.2	4904.7	4922.9	4970.0	5068.7	5220.5	5683.6	6152.8	5841.6	5499.9	5100.5
25°	5302.5	5319.2	5287.3	5234.2	5266.1	5372.4	5732.2	6429.2	6248.5	5850.7	5364.8
27.5°	5862.8	5846.1	5799.0	5674.5	5609.2	5654.8	5893.2	6726.8	6754.2	6312.3	5714.0
30°	6421.6	6408.0	6362.4	6210.6	6076.9	6039.0	6206.0	7068.5	7357.0	6866.5	6142.2
32.5°	7001.7	6986.5	6944.0	6792.1	6631.2	6543.1	6650.9	7463.3	8067.6	7528.6	6646.4
35°	7716.9	7688.0	7598.4	7387.4	7229.4	7161.1	7211.2	7959.8	8887.6	8312.1	7258.3
37.5°	8389.6	8433.6	8342.5	8050.9	7845.9	7821.7	7877.8	8565.7	9771.4	9188.3	7961.3
40°	9065.3	9072.9	8990.9	8752.5	8541.4	8501.9	8643.1	9300.6	10814.6	10236.0	8816.2
42.5°	9763.8	9779.0	9640.8	9420.6	9265.7	9273.3	9434.3	10161.6	12011.1	11470.5	9800.2
45°	10591.3	10614.1	10462.3	10173.8	10032.5	10316.5	10249.7	11127.4	13323.1	12873.6	10930.0
47.5°	11456.9	11491.8	11376.4	11106.1	10930.0	11320.2	11065.1	12197.9	14735.3	14378.4	12170.6
50°	11929.1	11979.2	12091.6	12071.9	12033.9	11968.6	11974.7	13345.9	16191.5	15945.5	13446.1
52.5°	11675.5	11674.0	12084.0	12582.1	13113.5	13153.0	13083.2	14556.1	17552.0	17477.6	14647.2
55°	10515.4	10594.4	11215.4	12179.7	13631.3	14537.9	14744.4	15942.4	18888.3	18974.8	15866.5
57.5°	8583.9	8649.2	9487.4	10831.3	12932.8	15360.9	17107.1	17957.5	20382.5	20786.4	17489.8
60°	5821.8	5900.8	6789.1	8403.2	11053.0	14902.3	19356.0	21553.2	22171.2	23089.9	19767.5
62.5°	3421.1	3492.5	4216.8	5301.0	7782.2	12771.9	20343.0	26668.9	25012.3	26565.7	23241.7
65°	2355.2	2403.7	2756.0	3299.6	4471.9	8602.1	19119.1	30200.9	29384.0	30872.1	27270.2
67.5°	1895.1	1889.0	2168.4	2538.9	2879.0	4435.5	14457.4	29801.5	33228.7	33849.8	29361.2
70°	1561.0	1554.9	1744.7	2051.5	2300.5	2497.9	7874.8	25148.9	32445.2	32697.3	27435.8
72.5°	1305.9	1312.0	1433.4	1661.2	1887.5	1881.4	3460.6	17691.7	25524.0	27267.2	21870.6
75°	1102.4	1105.4	1185.9	1346.9	1532.1	1515.4	1876.8	9584.6	14837.0	16050.3	12123.5
77.5°	938.4	941.5	993.1	1082.7	1214.8	1208.7	1369.7	4140.9	6189.3	6113.4	4146.9
80°	836.7	836.7	861.0	877.7	950.6	923.2	1015.9	1989.2	2616.3	2415.9	1655.1
82.5°	656.0	659.0	807.8	801.8	748.6	713.7	713.7	1172.3	1386.4	1281.6	968.8
85°	369.0	367.5	520.8	628.6	659.0	502.6	498.1	656.0	754.7	665.1	469.2
87.5°	157.9	161.0	241.4	279.4	373.5	312.8	308.2	338.6	384.2	332.5	217.1
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°	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1	4285.1
2.5°	4286.6	4247.2	4160.6	4052.8	3955.6	3891.8	3834.1	3750.6	3755.2	3697.5	3655.0
5°	4283.6	4201.6	4001.2	3762.8	3533.5	3368.0	3243.5	3131.1	3103.8	3050.6	3018.7
7.5°	4286.6	4153.0	3815.9	3434.8	3150.8	2941.3	2835.0	2775.8	2762.1	2743.9	2745.4
10°	4297.3	4109.0	3612.4	3128.1	2830.4	2692.3	2666.4	2684.7	2705.9	2712.0	2713.5
12.5°	4321.6	4069.5	3389.2	2854.7	2630.0	2587.5	2631.5	2693.8	2734.8	2754.5	2753.0
15°	4376.2	4039.1	3175.1	2640.6	2519.1	2541.9	2623.9	2712.0	2771.2	2798.5	2800.1
17.5°	4435.5	3995.1	2954.9	2476.6	2437.1	2494.8	2596.6	2699.8	2772.7	2803.1	2809.2
20°	4512.9	3940.4	2724.1	2353.6	2359.7	2425.0	2520.7	2623.9	2704.4	2730.2	2742.4
22.5°	4614.6	3881.2	2522.2	2253.4	2271.6	2321.7	2396.1	2485.7	2555.6	2567.7	2578.4
25°	4751.3	3817.4	2361.2	2162.3	2169.9	2198.7	2248.9	2302.0	2350.6	2336.9	2347.6
27.5°	4935.0	3762.8	2241.3	2078.8	2065.1	2071.2	2097.0	2113.7	2139.5	2101.6	2106.1
30°	5150.7	3703.6	2148.6	2005.9	1967.9	1957.3	1963.4	1972.5	1992.2	1940.6	1933.0
32.5°	5401.2	3632.2	2062.1	1942.1	1889.0	1867.7	1870.8	1895.1	1971.0	1939.1	1922.4
35°	5692.8	3551.7	1971.0	1872.3	1835.8	1805.5	1802.4	1878.4	2104.6	2084.9	2069.7
37.5°	6034.4	3471.2	1879.9	1793.3	1796.4	1762.9	1752.3	1838.9	2130.4	2053.0	2042.3
40°	6468.7	3428.7	1802.4	1709.8	1747.8	1743.2	1721.9	1766.0	1960.3	1819.1	1800.9
42.5°	7006.2	3434.8	1744.7	1620.2	1690.1	1738.7	1705.2	1706.8	1776.6	1670.3	1653.6
45°	7669.8	3506.2	1703.7	1548.8	1624.8	1734.1	1699.2	1674.9	1680.9	1624.8	1615.7
47.5°	8444.2	3653.4	1674.9	1489.6	1562.5	1717.4	1697.7	1665.8	1652.1	1621.7	1614.1
50°	9305.2	3867.5	1653.6	1433.4	1506.3	1690.1	1699.2	1656.7	1641.5	1629.3	1624.8
52.5°	10151.0	4112.0	1621.7	1384.8	1462.3	1656.7	1703.7	1647.5	1630.8	1621.7	1617.2
55°	11094.0	4417.2	1573.1	1343.8	1425.8	1614.1	1703.7	1633.9	1615.7	1617.2	1615.7
57.5°	12368.0	4910.7	1515.4	1308.9	1381.8	1562.5	1674.9	1618.7	1595.9	1597.4	1599.0
60°	14358.7	5780.8	1445.6	1274.0	1327.1	1501.8	1635.4	1585.3	1562.5	1568.6	1570.1
62.5°	17286.3	7057.9	1354.5	1222.4	1269.4	1436.5	1580.7	1542.8	1520.0	1535.2	1535.2
65°	20329.3	8184.6	1242.1	1157.1	1208.7	1365.1	1512.4	1489.6	1466.8	1501.8	1500.3
67.5°	21147.8	7932.5	1129.7	1085.7	1148.0	1286.1	1430.4	1418.3	1406.1	1466.8	1463.8
70°	18786.5	6368.5	1026.5	1012.8	1081.2	1201.1	1342.3	1342.3	1334.7	1380.3	1369.7
72.5°	14313.1	4515.9	927.8	935.4	1005.2	1108.5	1246.7	1257.3	1245.1	1267.9	1258.8
75°	7662.2	2584.4	829.1	850.3	911.1	1014.3	1140.4	1151.0	1143.4	1141.9	1146.4
77.5°	2546.5	1263.4	725.8	759.2	812.4	917.2	1029.5	1046.2	1028.0	1025.0	1023.5
80°	1134.3	794.2	611.9	656.0	703.1	806.3	912.6	926.3	906.5	933.9	898.9
82.5°	728.9	522.4	490.5	539.1	584.6	695.5	795.7	798.7	780.5	906.5	772.9
85°	353.8	323.4	369.0	413.0	452.5	546.7	659.0	660.5	615.0	560.3	540.6
87.5°	176.1	188.3	246.0	285.5	305.2	375.1	479.8	470.7	451.0	410.0	378.1
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)