

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: P298887

Luminaire Tested: **GLNA-AF-06-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298887
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: GLNA-AF-06-LED-E1-T2-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28413 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
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

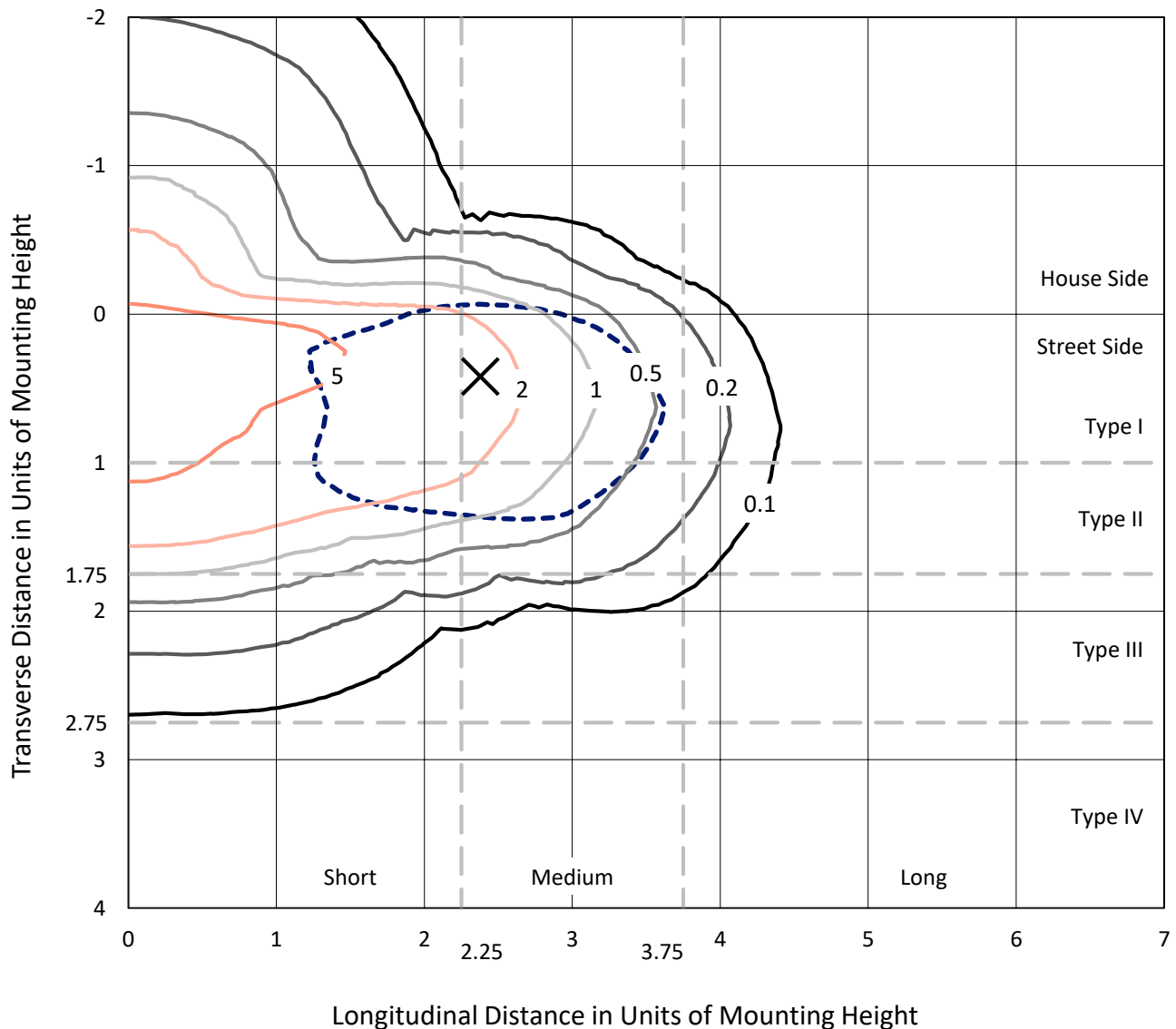


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

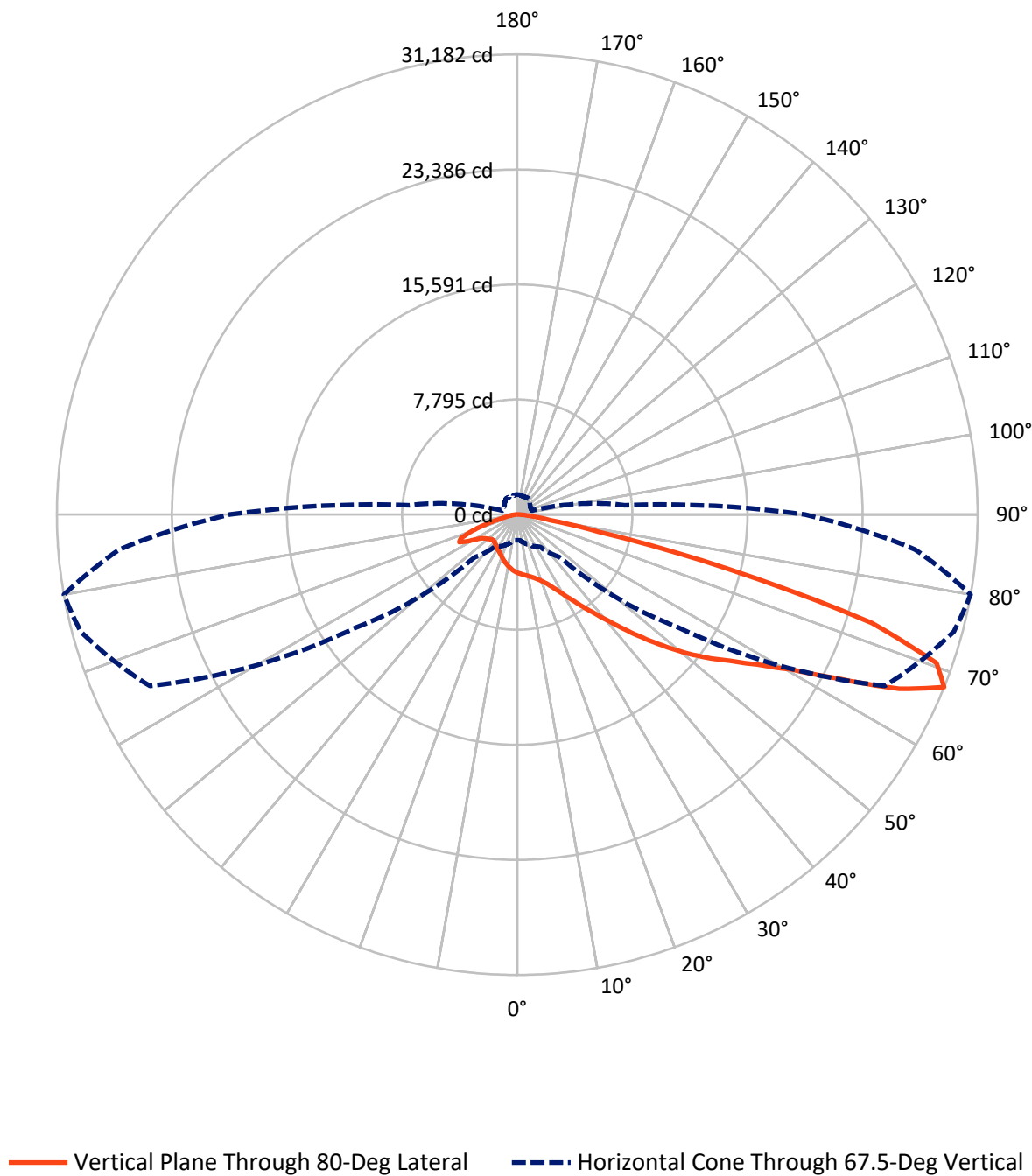


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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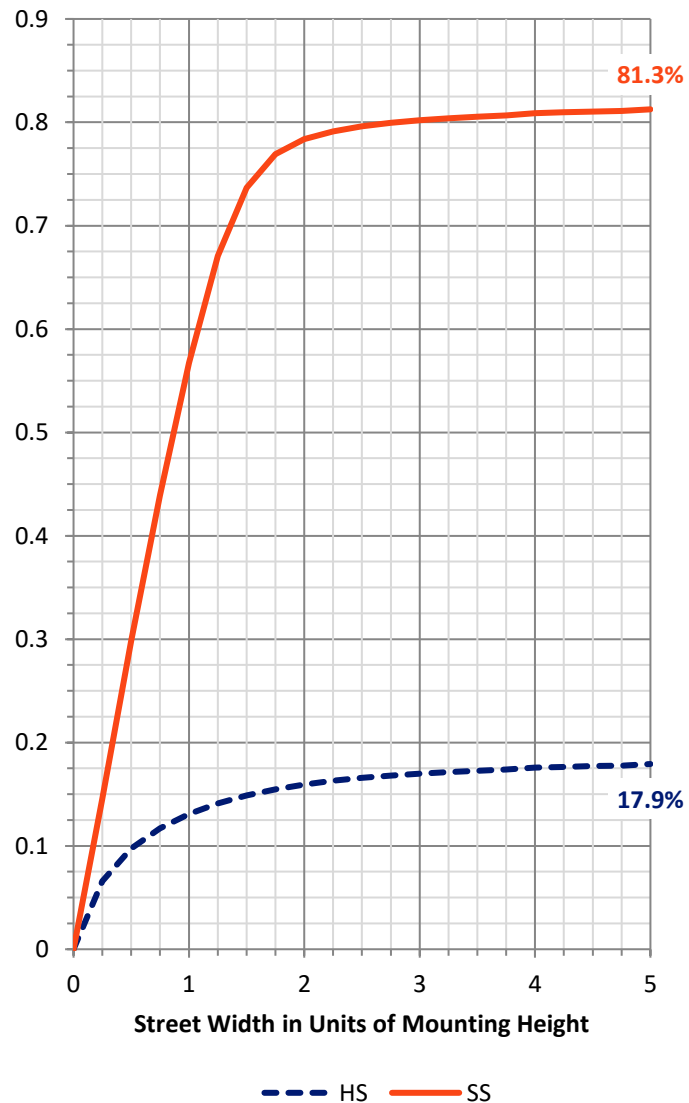
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5232.6	0.0	5232.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	23180.4	0.0	23180.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	28413.0	0.0	28413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	1.3
10°-20°	1048.9	3.7
20°-30°	1736.2	6.1
30°-40°	2840.0	10.0
40°-50°	4585.5	16.1
50°-60°	6620.2	23.3
60°-70°	7305.7	25.7
70°-80°	3367.5	11.9
80°-90°	544.7	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°	28413.0	100.0
0°-180°	28413.0	100.0

Coefficient of Utilization



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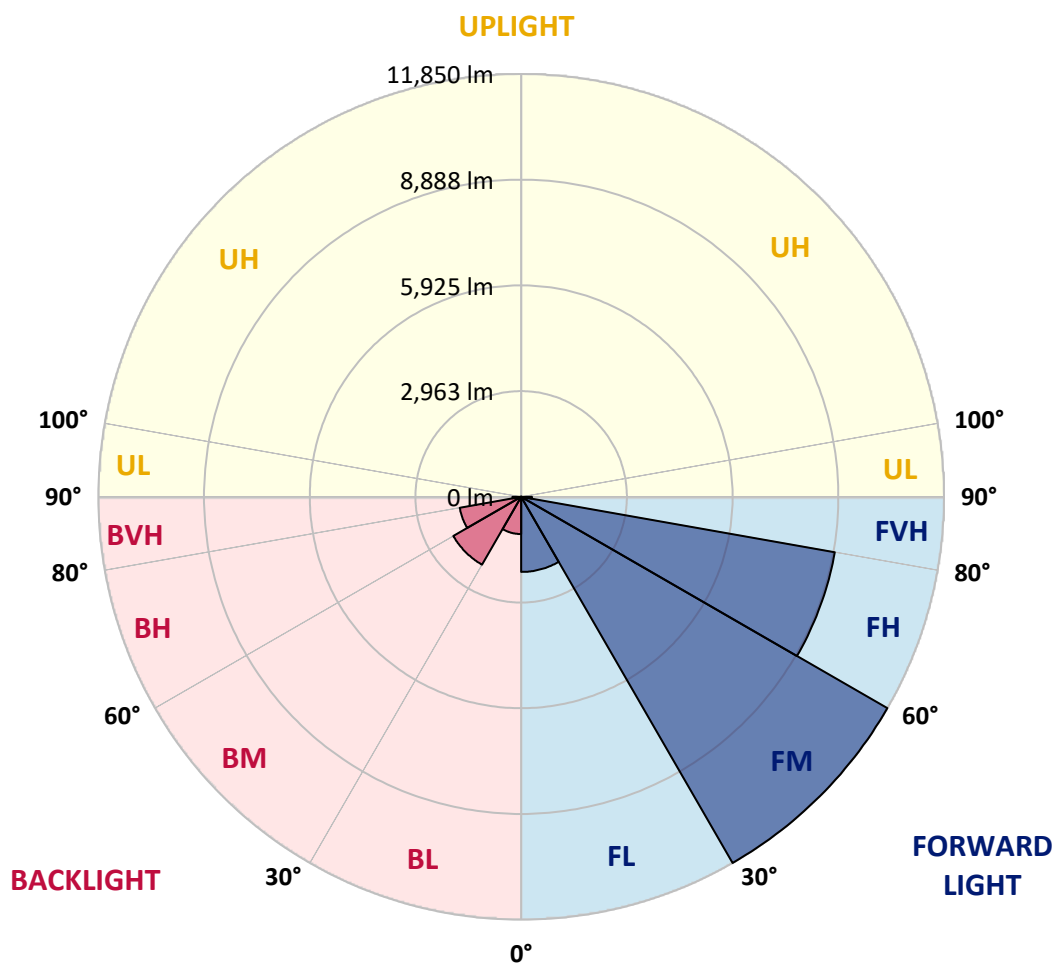
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2105.3	7.4			
FM	(30°-60°)	11850.3	41.7			
FH	(60°-80°)	8925.2	31.4			G4/12000
FVH	(80°-90°)	299.5	1.1			G3/500
BL	(0°-30°)	1044.0	3.7	B3/2500		
BM	(30°-60°)	2195.4	7.7	B2/2500		
BH	(60°-80°)	1748.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	245.2	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°	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4
2.5°	4318.1	4292.9	4297.1	4290.1	4269.1	4232.7	4193.6	4122.2	4048.1	4008.9	3978.2
5°	4679.0	4672.0	4662.2	4639.8	4586.6	4511.1	4417.4	4291.5	4155.8	4084.5	4015.9
7.5°	4948.9	4944.7	4932.1	4918.1	4866.4	4775.5	4634.2	4455.1	4257.9	4160.0	4053.7
10°	4971.3	4978.3	4988.1	5025.9	5032.8	4983.9	4839.8	4623.0	4364.2	4238.3	4102.7
12.5°	4781.1	4796.4	4834.2	4930.7	5032.8	5093.0	5018.9	4799.2	4488.7	4336.2	4164.2
15°	4529.3	4537.7	4583.8	4716.7	4900.0	5086.0	5155.9	4993.7	4649.6	4462.1	4256.5
17.5°	4421.6	4425.8	4457.9	4546.1	4716.7	4982.5	5232.9	5204.9	4846.8	4618.8	4369.8
20°	4367.0	4376.8	4423.0	4509.7	4617.4	4849.6	5244.1	5432.9	5081.8	4814.6	4512.5
22.5°	4522.3	4518.1	4534.9	4578.2	4669.2	4809.0	5235.7	5667.9	5381.1	5066.4	4698.5
25°	4884.6	4900.0	4870.6	4821.6	4851.0	4948.9	5280.4	5922.5	5756.0	5389.5	4941.9
27.5°	5400.7	5385.3	5342.0	5227.3	5167.1	5209.1	5428.7	6196.6	6221.8	5814.8	5263.6
30°	5915.5	5902.9	5860.9	5721.0	5598.0	5563.0	5716.9	6511.4	6777.1	6325.3	5658.1
32.5°	6449.8	6435.8	6396.7	6256.8	6108.5	6027.4	6126.7	6875.1	7431.8	6935.2	6122.5
35°	7108.6	7082.1	6999.5	6805.1	6659.6	6596.7	6642.9	7332.5	8187.1	7657.0	6686.2
37.5°	7728.3	7768.9	7685.0	7416.4	7227.5	7205.2	7256.9	7890.6	9001.2	8464.1	7333.9
40°	8350.8	8357.8	8282.2	8062.6	7868.2	7831.8	7961.9	8567.6	9962.2	9429.2	8121.4
42.5°	8994.2	9008.2	8880.9	8678.1	8535.4	8542.4	8690.7	9360.7	11064.4	10566.5	9027.8
45°	9756.6	9777.5	9637.7	9371.9	9241.8	9503.4	9441.8	10250.3	12273.0	11858.9	10068.5
47.5°	10553.9	10586.0	10479.7	10230.7	10068.5	10428.0	10193.0	11236.5	13573.9	13245.1	11211.3
50°	10988.9	11035.1	11138.6	11120.4	11085.4	11025.3	11030.9	12294.0	14915.3	14688.7	12386.3
52.5°	10755.3	10753.9	11131.6	11590.4	12079.9	12116.3	12052.0	13408.8	16168.6	16100.1	13492.7
55°	9686.6	9759.4	10331.5	11219.7	12556.9	13392.0	13582.2	14685.9	17399.5	17479.3	14616.0
57.5°	7907.4	7967.5	8739.6	9977.6	11913.5	14150.2	15758.8	16542.1	18776.0	19148.0	16111.3
60°	5363.0	5435.7	6254.0	7740.9	10181.8	13727.7	17830.4	19854.4	20423.7	21270.0	18209.4
62.5°	3151.5	3217.2	3884.4	4883.2	7168.8	11765.2	18739.6	24566.9	23040.9	24471.8	21409.9
65°	2169.5	2214.3	2538.8	3039.6	4119.4	7924.1	17612.2	27820.5	27068.0	28438.8	25120.9
67.5°	1745.7	1740.1	1997.5	2338.8	2652.1	4085.9	13317.9	27452.6	30609.7	31181.8	27047.0
70°	1438.0	1432.4	1607.2	1889.8	2119.2	2301.0	7254.1	23166.8	29887.9	30120.1	25273.3
72.5°	1203.0	1208.6	1320.5	1530.3	1738.7	1733.1	3187.8	16297.3	23512.3	25118.1	20146.8
75°	1015.5	1018.3	1092.5	1240.7	1411.4	1396.0	1728.9	8829.2	13667.6	14785.2	11167.9
77.5°	864.5	867.2	914.8	997.3	1119.0	1113.4	1261.7	3814.5	5701.5	5631.5	3820.1
80°	770.7	770.7	793.1	808.5	875.6	850.5	935.8	1832.4	2410.1	2225.5	1524.7
82.5°	604.3	607.1	744.2	738.6	689.6	657.4	657.4	1079.9	1277.1	1180.6	892.4
85°	339.9	338.5	479.8	579.1	607.1	463.0	458.8	604.3	695.2	612.7	432.2
87.5°	145.5	148.3	222.4	257.4	344.1	288.2	284.0	311.9	353.9	306.3	200.0
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°	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4	3947.4
2.5°	3948.8	3912.4	3832.7	3733.4	3643.8	3585.1	3531.9	3455.0	3459.2	3406.1	3366.9
5°	3946.0	3870.5	3685.8	3466.2	3255.0	3102.5	2987.8	2884.3	2859.1	2810.2	2780.8
7.5°	3948.8	3825.7	3515.2	3164.1	2902.5	2709.5	2611.5	2557.0	2544.4	2527.6	2529.0
10°	3958.6	3785.1	3327.7	2881.5	2607.3	2480.1	2456.3	2473.1	2492.6	2498.2	2499.6
12.5°	3981.0	3748.8	3122.1	2629.7	2422.7	2383.5	2424.1	2481.5	2519.2	2537.4	2536.0
15°	4031.3	3720.8	2924.9	2432.5	2320.6	2341.6	2417.1	2498.2	2552.8	2578.0	2579.4
17.5°	4085.9	3680.2	2722.0	2281.4	2245.1	2298.2	2391.9	2487.0	2554.2	2582.2	2587.8
20°	4157.2	3629.9	2509.4	2168.1	2173.7	2233.9	2322.0	2417.1	2491.2	2515.0	2526.2
22.5°	4250.9	3575.3	2323.4	2075.8	2092.6	2138.7	2207.3	2289.8	2354.2	2365.4	2375.1
25°	4376.8	3516.6	2175.1	1991.9	1998.9	2025.4	2071.6	2120.6	2165.3	2152.7	2162.5
27.5°	4546.1	3466.2	2064.6	1914.9	1902.4	1907.9	1931.7	1947.1	1970.9	1935.9	1940.1
30°	4744.7	3411.6	1979.3	1847.8	1812.8	1803.0	1808.6	1817.0	1835.2	1787.7	1780.7
32.5°	4975.5	3345.9	1899.6	1789.1	1740.1	1720.5	1723.3	1745.7	1815.6	1786.3	1770.9
35°	5244.1	3271.8	1815.6	1724.7	1691.1	1663.2	1660.4	1730.3	1938.7	1920.5	1906.6
37.5°	5558.8	3197.6	1731.7	1652.0	1654.8	1624.0	1614.2	1693.9	1962.5	1891.2	1881.4
40°	5958.8	3158.5	1660.4	1575.0	1610.0	1605.8	1586.2	1626.8	1805.8	1675.8	1659.0
42.5°	6454.0	3164.1	1607.2	1492.5	1556.9	1601.6	1570.8	1572.2	1636.6	1538.7	1523.3
45°	7065.3	3229.8	1569.4	1426.8	1496.7	1597.4	1565.2	1542.9	1548.5	1496.7	1488.3
47.5°	7778.7	3365.5	1542.9	1372.2	1439.4	1582.0	1563.8	1534.5	1521.9	1493.9	1486.9
50°	8571.8	3562.7	1523.3	1320.5	1387.6	1556.9	1565.2	1526.1	1512.1	1500.9	1496.7
52.5°	9350.9	3787.9	1493.9	1275.7	1347.0	1526.1	1569.4	1517.7	1502.3	1493.9	1489.7
55°	10219.6	4069.1	1449.1	1237.9	1313.5	1486.9	1569.4	1505.1	1488.3	1489.7	1488.3
57.5°	11393.1	4523.7	1396.0	1205.8	1272.9	1439.4	1542.9	1491.1	1470.1	1471.5	1472.9
60°	13227.0	5325.2	1331.6	1173.6	1222.5	1383.4	1506.5	1460.3	1439.4	1444.9	1446.3
62.5°	15923.8	6501.6	1247.7	1126.0	1169.4	1323.3	1456.1	1421.2	1400.2	1414.2	1414.2
65°	18727.0	7539.5	1144.2	1065.9	1113.4	1257.5	1393.2	1372.2	1351.2	1383.4	1382.0
67.5°	19480.9	7307.3	1040.7	1000.1	1057.5	1184.8	1317.7	1306.5	1295.3	1351.2	1348.4
70°	17305.8	5866.5	945.6	933.0	995.9	1106.4	1236.5	1236.5	1229.5	1271.5	1261.7
72.5°	13185.0	4160.0	854.7	861.7	926.0	1021.1	1148.4	1158.2	1147.0	1168.0	1159.6
75°	7058.3	2380.7	763.7	783.3	839.3	934.4	1050.5	1060.3	1053.3	1051.9	1056.1
77.5°	2345.8	1163.8	668.6	699.4	748.4	844.9	948.4	963.8	947.0	944.2	942.8
80°	1044.9	731.6	563.7	604.3	647.6	742.8	840.7	853.3	835.1	860.3	828.1
82.5°	671.4	481.2	451.8	496.6	538.5	640.6	733.0	735.8	719.0	835.1	712.0
85°	325.9	297.9	339.9	380.5	416.8	503.6	607.1	608.5	566.5	516.2	498.0
87.5°	162.3	173.4	226.6	263.0	281.2	345.5	442.0	433.6	415.4	377.7	348.3
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)