

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: P298953

Luminaire Tested: **GLNA-AF-07-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298953
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-07-LED-E1-T2-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27146.1 lumens
Efficiency: N/A
Efficacy: 92.0 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): 295
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



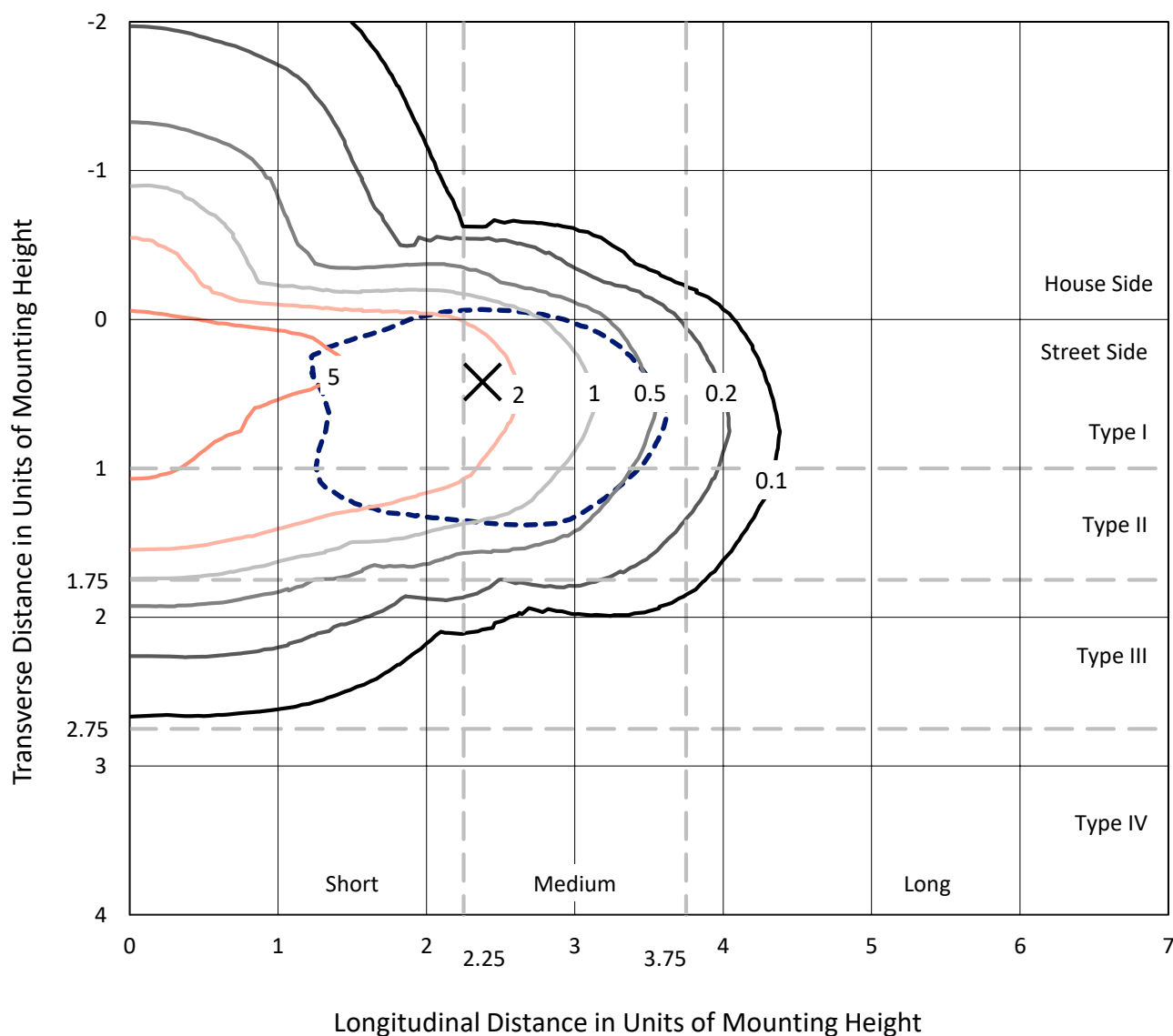
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

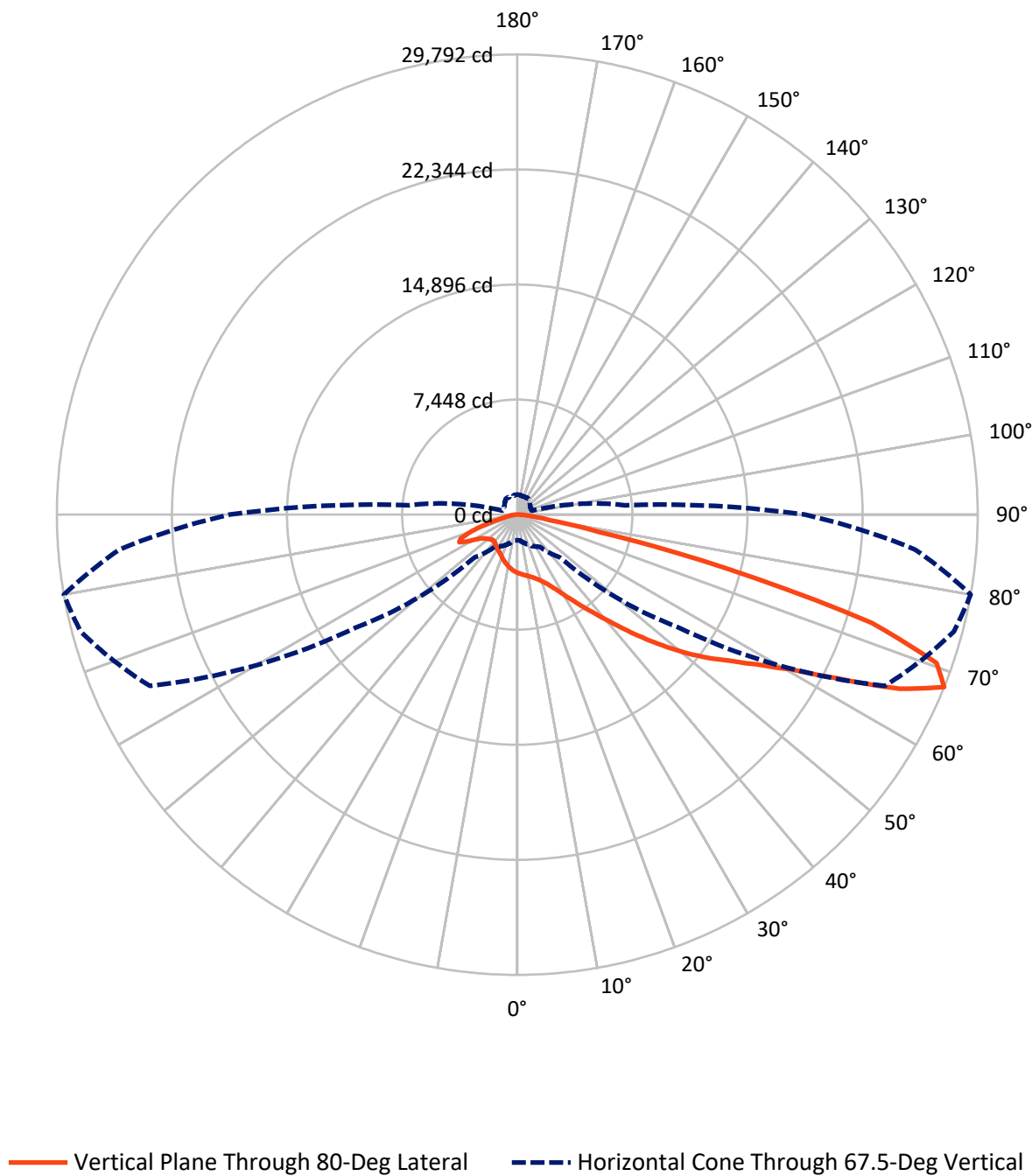


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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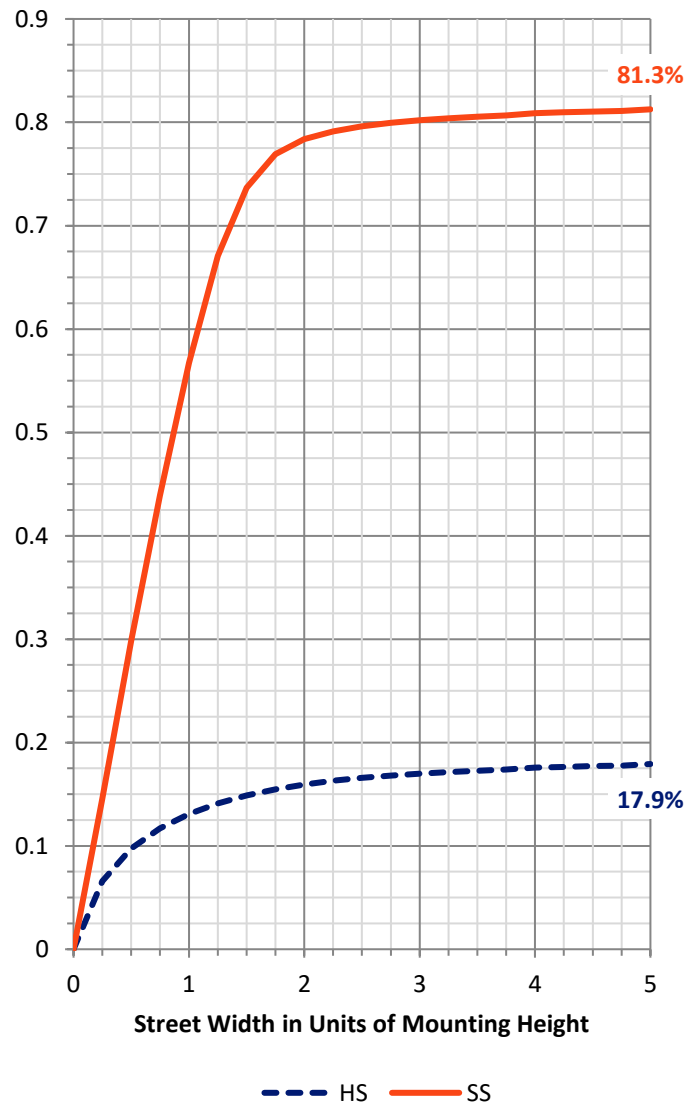
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4999.3	0.0	4999.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	22146.8	0.0	22146.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	27146.1	0.0	27146.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.9	1.3
10°-20°	1002.2	3.7
20°-30°	1658.8	6.1
30°-40°	2713.4	10.0
40°-50°	4381.1	16.1
50°-60°	6325.0	23.3
60°-70°	6980.0	25.7
70°-80°	3217.3	11.9
80°-90°	520.4	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°	27146.1	100.0
0°-180°	27146.1	100.0

Coefficient of Utilization



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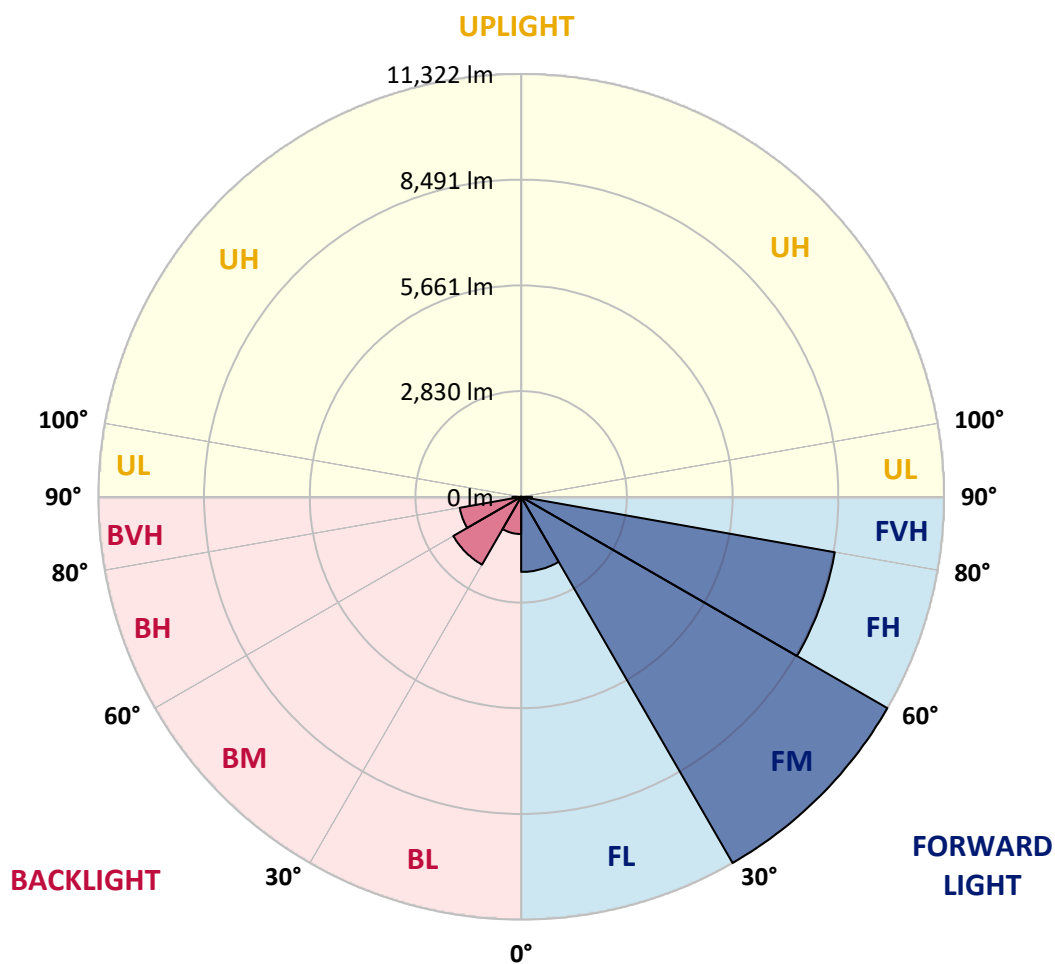
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2011.5	7.4			
FM	(30°-60°)	11321.9	41.7			
FH	(60°-80°)	8527.3	31.4			G4/12000
FVH	(80°-90°)	286.1	1.1			G3/500
BL	(0°-30°)	997.4	3.7	B2/1000		
BM	(30°-60°)	2097.5	7.7	B2/2500		
BH	(60°-80°)	1670.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	234.3	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°	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4
2.5°	4125.5	4101.5	4105.5	4098.8	4078.8	4044.0	4006.6	3938.4	3867.6	3830.2	3800.8
5°	4470.3	4463.6	4454.3	4432.9	4382.1	4310.0	4220.4	4100.1	3970.5	3902.3	3836.9
7.5°	4728.3	4724.2	4712.2	4698.9	4649.4	4562.5	4427.6	4256.5	4068.1	3974.5	3872.9
10°	4749.6	4756.3	4765.7	4801.8	4808.4	4761.7	4624.0	4416.9	4169.6	4049.4	3919.7
12.5°	4567.9	4582.6	4618.7	4710.9	4808.4	4865.9	4795.1	4585.3	4288.6	4142.9	3978.5
15°	4327.3	4335.3	4379.4	4506.4	4681.5	4859.2	4926.0	4771.0	4442.3	4263.2	4066.7
17.5°	4224.4	4228.4	4259.2	4343.4	4506.4	4760.3	4999.5	4972.8	4630.7	4412.9	4175.0
20°	4172.3	4181.7	4225.8	4308.6	4411.5	4633.4	5010.2	5190.7	4855.2	4600.0	4311.3
22.5°	4320.6	4316.6	4332.7	4374.1	4461.0	4594.6	5002.2	5415.2	5141.2	4840.5	4489.0
25°	4666.8	4681.5	4653.4	4606.6	4634.7	4728.3	5045.0	5658.4	5499.4	5149.2	4721.6
27.5°	5159.9	5145.2	5103.8	4994.2	4936.7	4976.8	5186.6	5920.3	5944.4	5555.5	5028.9
30°	5651.7	5639.7	5599.6	5466.0	5348.4	5314.9	5461.9	6221.0	6475.0	6043.3	5405.8
32.5°	6162.2	6148.9	6111.4	5977.8	5836.1	5758.6	5853.5	6568.5	7100.4	6626.0	5849.5
35°	6791.7	6766.3	6687.4	6501.7	6362.7	6302.6	6346.7	7005.5	7822.1	7315.6	6388.1
37.5°	7383.7	7422.5	7342.3	7085.7	6905.3	6883.9	6933.3	7538.7	8599.9	8086.7	7006.9
40°	7978.4	7985.1	7912.9	7703.1	7517.4	7482.6	7606.9	8185.6	9518.0	9008.8	7759.3
42.5°	8593.2	8606.5	8484.9	8291.1	8154.8	8161.5	8303.2	8943.3	10571.1	10095.3	8625.3
45°	9321.5	9341.6	9207.9	8954.0	8829.7	9079.6	9020.8	9793.3	11725.7	11330.2	9619.6
47.5°	10083.3	10114.0	10012.5	9774.6	9619.6	9963.0	9738.5	10735.5	12968.6	12654.6	10711.4
50°	10498.9	10543.0	10641.9	10624.5	10591.1	10533.7	10539.0	11745.8	14250.2	14033.7	11834.0
52.5°	10275.7	10274.4	10635.2	11073.6	11541.3	11576.1	11514.6	12810.9	15447.7	15382.2	12891.1
55°	9254.7	9324.2	9870.8	10719.4	11997.0	12794.9	12976.6	14031.1	16623.7	16699.9	13964.3
57.5°	7554.8	7612.2	8350.0	9532.7	11382.3	13519.2	15056.1	15804.5	17938.8	18294.3	15392.9
60°	5123.8	5193.3	5975.1	7395.7	9727.8	13115.6	17035.3	18969.1	19513.1	20321.6	17397.5
62.5°	3011.0	3073.8	3711.2	4665.4	6849.2	11240.6	17904.0	23471.5	22013.5	23380.7	20455.2
65°	2072.8	2115.6	2425.6	2904.0	3935.8	7570.8	16826.9	26580.1	25861.1	27170.8	24000.8
67.5°	1667.9	1662.5	1908.4	2234.5	2533.9	3903.7	12724.1	26228.6	29244.9	29791.5	25841.0
70°	1373.8	1368.5	1535.5	1805.5	2024.7	2198.4	6930.7	22133.8	28555.3	28777.1	24146.4
72.5°	1149.3	1154.7	1261.6	1462.0	1661.2	1655.8	3045.7	15570.6	22463.9	23998.1	19248.5
75°	970.2	972.9	1043.7	1185.4	1348.4	1333.7	1651.8	8435.5	13058.2	14126.0	10670.0
77.5°	825.9	828.6	874.0	952.9	1069.1	1063.8	1205.5	3644.4	5447.2	5380.4	3649.8
80°	736.4	736.4	757.8	772.5	836.6	812.5	894.1	1750.7	2302.7	2126.2	1456.7
82.5°	577.3	580.0	711.0	705.6	658.9	628.1	628.1	1031.7	1220.2	1127.9	852.6
85°	324.8	323.4	458.4	553.3	580.0	442.4	438.3	577.3	664.2	585.4	413.0
87.5°	139.0	141.7	212.5	245.9	328.8	275.3	271.3	298.0	338.1	292.7	191.1
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°	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4	3771.4
2.5°	3772.7	3738.0	3661.8	3566.9	3481.4	3425.2	3374.5	3301.0	3305.0	3254.2	3216.8
5°	3770.0	3697.9	3521.5	3311.6	3109.8	2964.2	2854.6	2755.7	2731.6	2684.9	2656.8
7.5°	3772.7	3655.1	3358.4	3023.0	2773.1	2588.6	2495.1	2443.0	2430.9	2414.9	2416.2
10°	3782.1	3616.4	3179.3	2753.0	2491.1	2369.5	2346.8	2362.8	2381.5	2386.8	2388.2
12.5°	3803.5	3581.6	2982.9	2512.5	2314.7	2277.3	2316.0	2370.8	2406.9	2424.3	2422.9
15°	3851.6	3554.9	2794.5	2324.0	2217.1	2237.2	2309.3	2386.8	2439.0	2463.0	2464.4
17.5°	3903.7	3516.1	2600.7	2179.7	2145.0	2195.7	2285.3	2376.2	2440.3	2467.0	2472.4
20°	3971.8	3468.0	2397.5	2071.5	2076.8	2134.3	2218.5	2309.3	2380.2	2402.9	2413.6
22.5°	4061.4	3415.9	2219.8	1983.2	1999.3	2043.4	2108.9	2187.7	2249.2	2259.9	2269.2
25°	4181.7	3359.8	2078.1	1903.1	1909.7	1935.1	1979.2	2026.0	2068.8	2056.8	2066.1
27.5°	4343.4	3311.6	1972.6	1829.6	1817.5	1822.9	1845.6	1860.3	1883.0	1849.6	1853.6
30°	4533.1	3259.5	1891.0	1765.4	1732.0	1722.6	1728.0	1736.0	1753.4	1707.9	1701.3
32.5°	4753.6	3196.7	1814.9	1709.3	1662.5	1643.8	1646.5	1667.9	1734.7	1706.6	1691.9
35°	5010.2	3125.9	1734.7	1647.8	1615.7	1589.0	1586.3	1653.2	1852.3	1834.9	1821.5
37.5°	5310.9	3055.1	1654.5	1578.3	1581.0	1551.6	1542.2	1618.4	1875.0	1806.8	1797.5
40°	5693.1	3017.6	1586.3	1504.8	1538.2	1534.2	1515.5	1554.3	1725.3	1601.0	1585.0
42.5°	6166.2	3023.0	1535.5	1426.0	1487.4	1530.2	1500.8	1502.1	1563.6	1470.1	1455.4
45°	6750.3	3085.8	1499.5	1363.1	1430.0	1526.2	1495.5	1474.1	1479.4	1430.0	1422.0
47.5°	7431.8	3215.4	1474.1	1311.0	1375.2	1511.5	1494.1	1466.1	1454.0	1427.3	1420.6
50°	8189.6	3403.9	1455.4	1261.6	1325.7	1487.4	1495.5	1458.0	1444.7	1434.0	1430.0
52.5°	8934.0	3619.0	1427.3	1218.8	1287.0	1458.0	1499.5	1450.0	1435.3	1427.3	1423.3
55°	9763.9	3887.6	1384.5	1182.7	1254.9	1420.6	1499.5	1438.0	1422.0	1423.3	1422.0
57.5°	10885.1	4322.0	1333.7	1152.0	1216.1	1375.2	1474.1	1424.6	1404.6	1405.9	1407.3
60°	12637.2	5087.8	1272.3	1121.3	1168.0	1321.7	1439.3	1395.2	1375.2	1380.5	1381.9
62.5°	15213.8	6211.7	1192.1	1075.8	1117.2	1264.3	1391.2	1357.8	1337.8	1351.1	1351.1
65°	17892.0	7203.3	1093.2	1018.4	1063.8	1201.4	1331.1	1311.0	1291.0	1321.7	1320.4
67.5°	18612.3	6981.5	994.3	955.5	1010.3	1131.9	1258.9	1248.2	1237.5	1291.0	1288.3
70°	16534.2	5604.9	903.4	891.4	951.5	1057.1	1181.4	1181.4	1174.7	1214.8	1205.5
72.5°	12597.1	3974.5	816.6	823.2	884.7	975.6	1097.2	1106.6	1095.9	1115.9	1107.9
75°	6743.6	2274.6	729.7	748.4	801.9	892.7	1003.7	1013.0	1006.3	1005.0	1009.0
77.5°	2241.2	1111.9	638.8	668.2	715.0	807.2	906.1	920.8	904.8	902.1	900.7
80°	998.3	698.9	538.6	577.3	618.8	709.6	803.2	815.2	797.8	821.9	791.2
82.5°	641.5	459.7	431.7	474.4	514.5	612.1	700.3	703.0	686.9	797.8	680.2
85°	311.4	284.7	324.8	363.5	398.3	481.1	580.0	581.3	541.3	493.1	475.8
87.5°	155.0	165.7	216.5	251.2	268.6	330.1	422.3	414.3	396.9	360.8	332.8
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)