

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: P299211

Luminaire Tested: **GLNA-AF-10-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-T3-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38717.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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



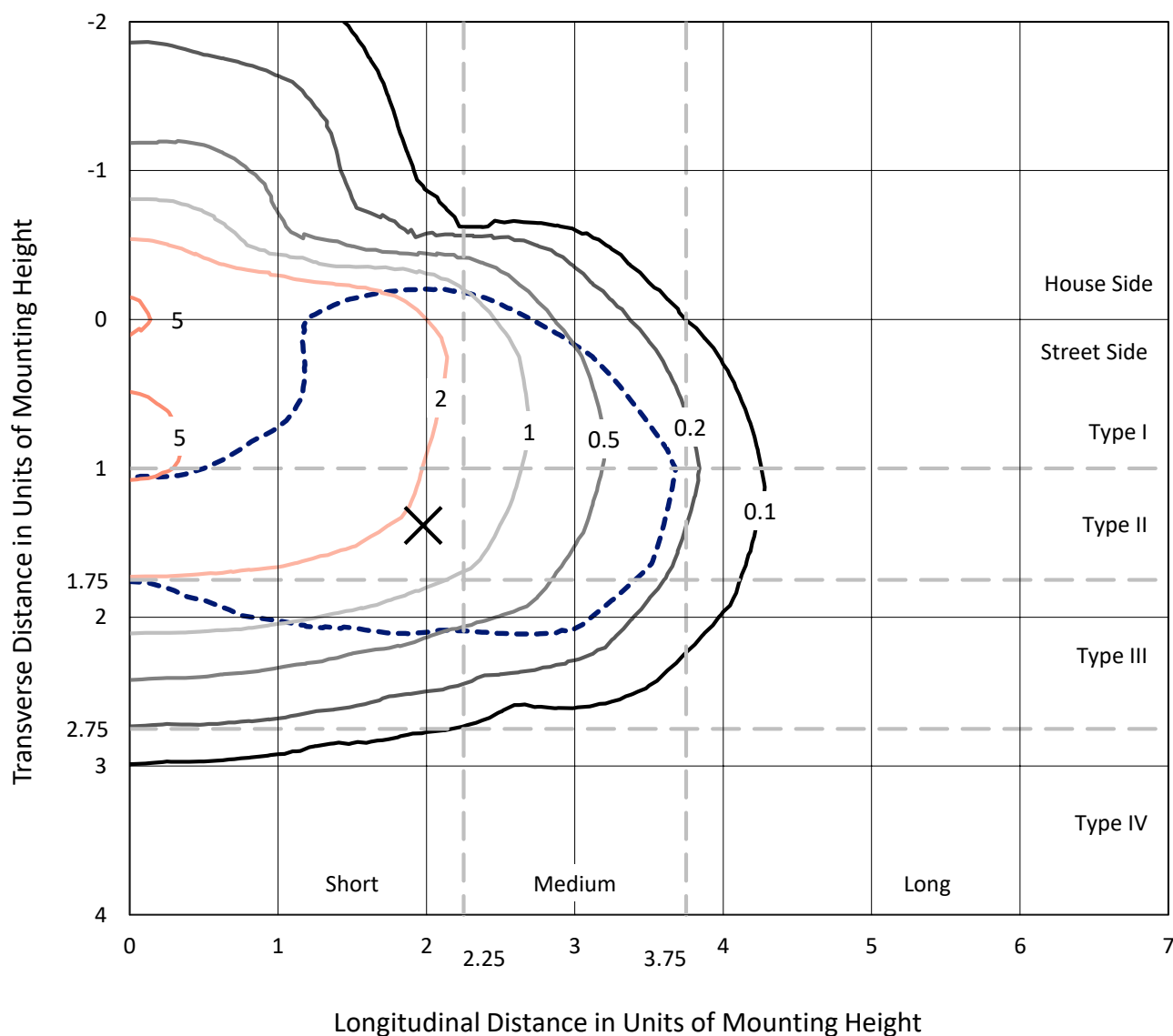
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

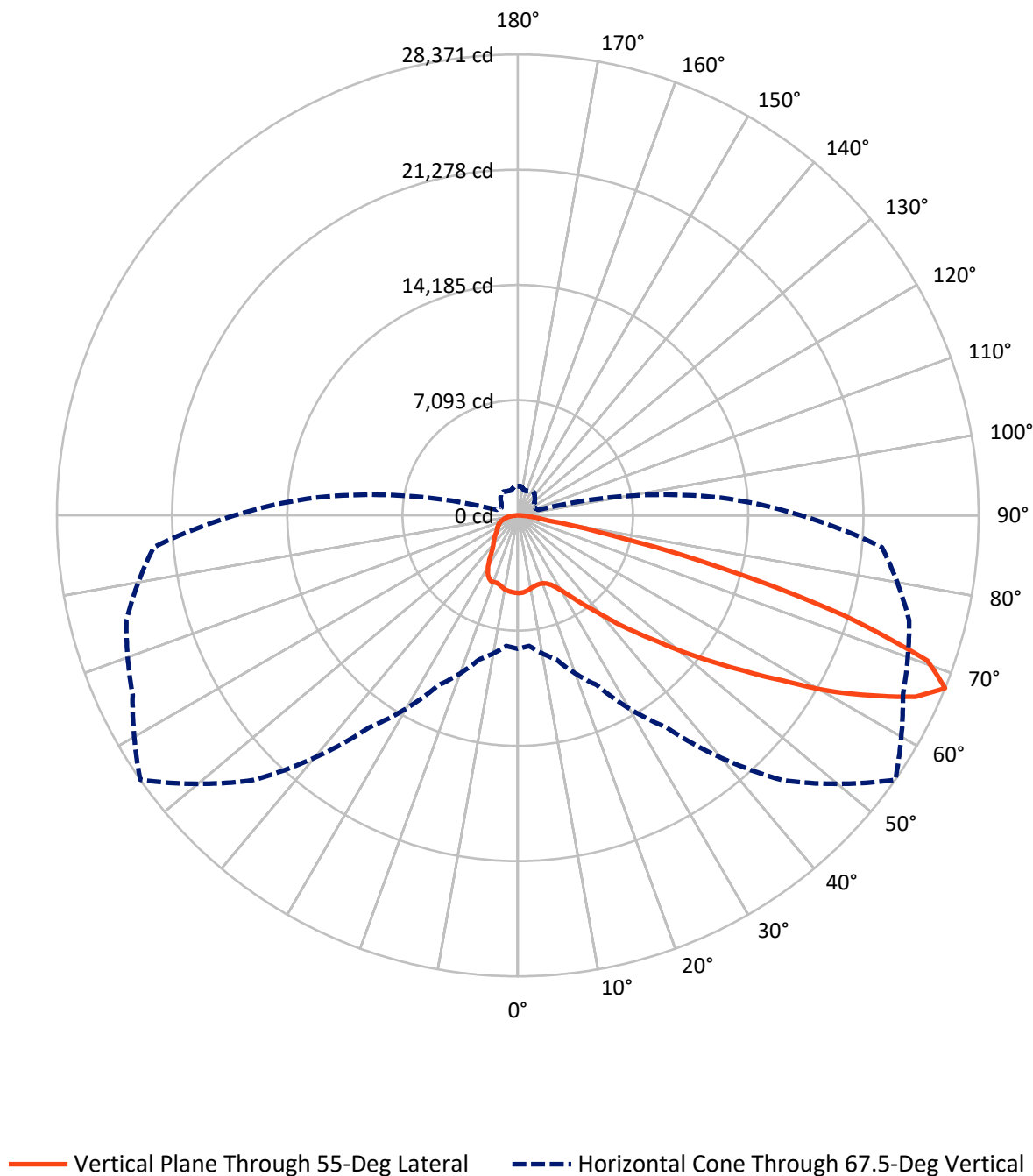


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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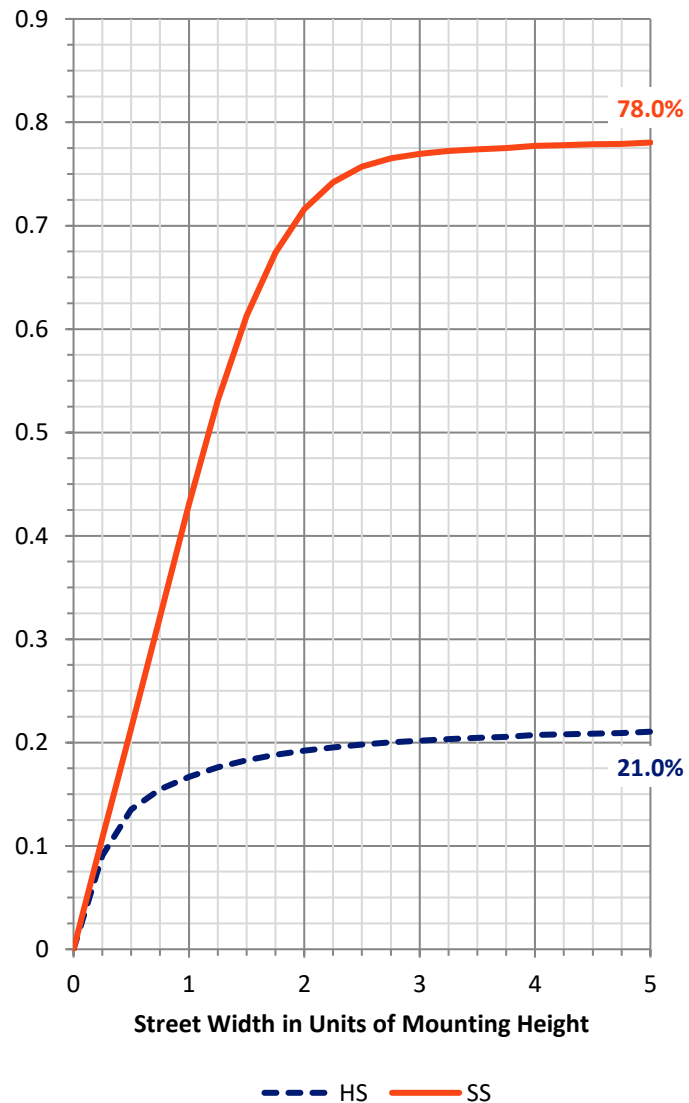
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8363.8	0.0	8363.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30353.7	0.0	30353.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	38717.5	0.0	38717.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.6	1.2
10°-20°	1262.1	3.3
20°-30°	2114.2	5.5
30°-40°	3476.6	9.0
40°-50°	5852.2	15.1
50°-60°	9210.9	23.8
60°-70°	10992.2	28.4
70°-80°	4720.3	12.2
80°-90°	643.6	1.7
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°	38717.5	100.0
0°-180°	38717.5	100.0

Coefficient of Utilization



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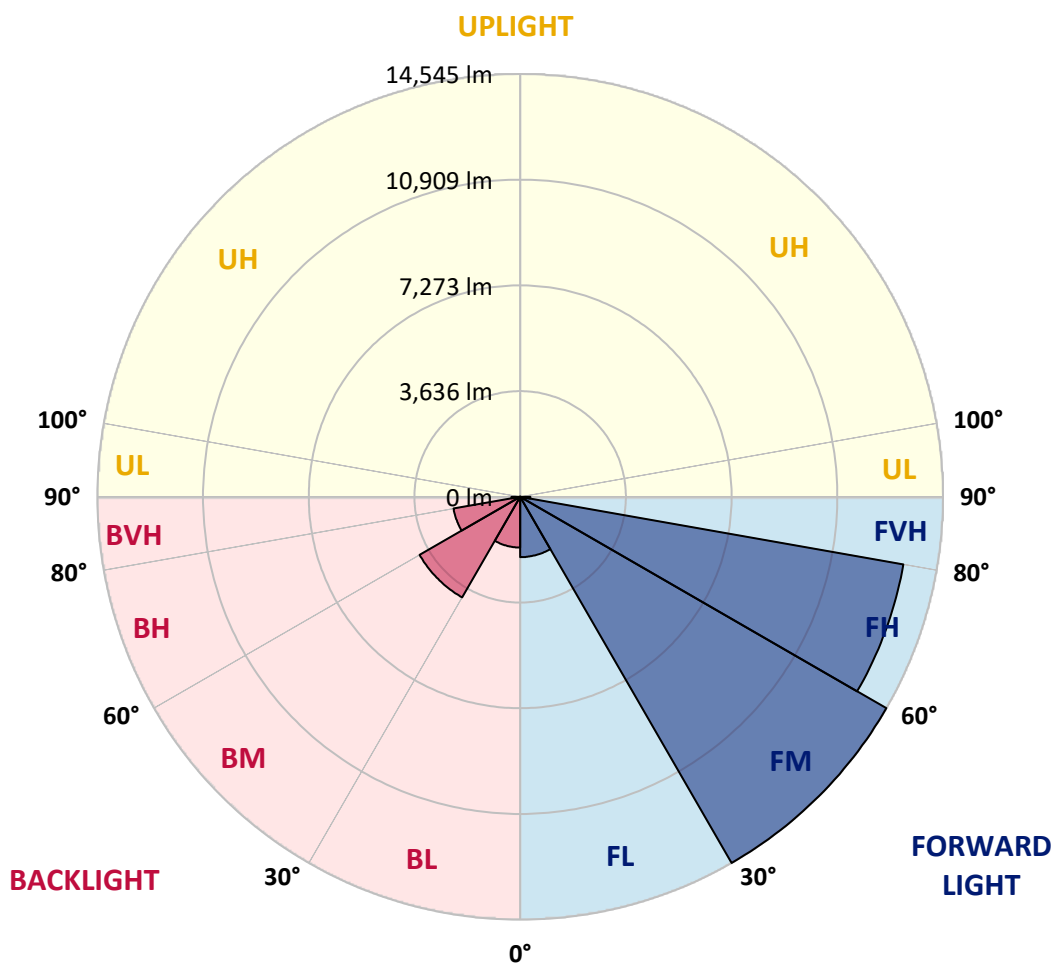
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2075.3	5.4			
FM	(30°-60°)	14545.2	37.6			
FH	(60°-80°)	13384.8	34.6			G5
FVH	(80°-90°)	348.4	0.9			G3/500
BL	(0°-30°)	1746.5	4.5	B3/2500		
BM	(30°-60°)	3994.5	10.3	B3/5000		
BH	(60°-80°)	2327.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	295.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3
2.5°	4733.1	4735.0	4738.8	4753.7	4766.8	4763.1	4764.9	4757.5	4755.6	4744.4	4755.6
5°	4673.3	4678.9	4680.8	4705.1	4720.1	4723.8	4718.2	4708.8	4697.6	4686.4	4692.0
7.5°	4536.8	4551.8	4553.6	4587.3	4611.6	4643.4	4645.3	4647.1	4641.5	4634.0	4645.3
10°	4450.8	4454.5	4452.6	4476.9	4495.7	4531.2	4551.8	4587.3	4602.2	4606.0	4613.5
12.5°	4445.2	4441.4	4435.8	4435.8	4430.2	4445.2	4482.6	4533.1	4568.6	4579.8	4589.2
15°	4505.0	4503.1	4484.4	4456.4	4420.8	4409.6	4441.4	4497.5	4544.3	4568.6	4577.9
17.5°	4639.6	4628.4	4598.5	4534.9	4458.2	4428.3	4432.1	4478.8	4533.1	4564.8	4574.2
20°	4886.5	4886.5	4822.9	4703.2	4566.7	4495.7	4462.0	4490.0	4542.4	4585.4	4598.5
22.5°	5312.9	5316.6	5210.0	5013.7	4783.6	4632.2	4548.0	4542.4	4604.1	4652.7	4667.7
25°	5916.9	5901.9	5752.3	5471.8	5122.1	4871.5	4725.7	4692.0	4744.4	4798.6	4817.3
27.5°	6620.1	6565.8	6388.2	6049.7	5597.1	5230.6	5006.2	4951.9	5002.4	5064.2	5082.9
30°	7315.7	7259.6	7048.3	6678.0	6175.0	5711.2	5389.5	5301.7	5372.7	5460.6	5471.8
32.5°	8011.4	8011.4	7775.8	7343.8	6795.8	6285.3	5900.1	5795.3	5913.2	6019.8	6044.1
35°	8843.6	8847.3	8619.2	8099.3	7510.2	6969.8	6545.2	6468.6	6646.2	6721.0	6779.0
37.5°	9866.5	9887.1	9593.5	8965.1	8319.9	7751.4	7246.5	7141.8	7319.5	7523.3	7710.3
40°	10971.7	10997.9	10674.4	9900.2	9255.0	8660.3	8114.2	7925.4	8220.8	8609.8	8851.0
42.5°	12026.4	12161.1	11848.8	11052.1	10358.3	9743.1	9189.5	8914.6	9284.9	9872.1	10081.6
45°	13550.5	13647.8	13103.6	12381.7	11729.1	11040.9	10307.8	10018.0	10536.0	11276.5	11319.5
47.5°	14566.0	14493.0	14216.3	13767.5	13354.2	12710.9	11607.5	11289.6	11977.8	12849.3	12608.0
50°	15106.4	15128.9	15091.5	15117.7	15132.6	14728.7	13200.8	12765.1	13586.1	14638.9	14083.5
52.5°	15611.4	15461.7	15585.2	16198.6	16939.1	16789.5	14934.4	14480.0	15310.3	16624.9	15643.1
55°	15600.1	15372.0	15774.0	16856.8	18463.2	18635.3	16881.1	16357.5	17133.6	18754.9	17296.3
57.5°	15048.5	15059.7	15678.7	17096.2	19525.4	20370.7	19140.2	18354.7	19067.2	20913.0	18805.4
60°	14289.2	14392.1	15284.1	17056.9	20376.3	21793.8	21911.6	20507.2	20961.6	22874.7	20054.6
62.5°	13064.3	13172.8	14403.3	16649.2	20247.3	23164.6	24417.5	22949.5	22942.0	24064.1	20421.2
65°	11132.5	11100.7	12393.0	15125.1	19164.5	24178.1	26906.6	25060.8	24434.3	24082.8	19684.4
67.5°	8209.6	8067.5	9176.4	11519.6	15929.3	23043.0	28370.8	26160.4	24943.0	22498.8	17432.8
70°	4260.0	4117.9	5015.5	6726.6	10476.1	17984.5	26749.5	25591.9	23819.1	18859.7	13657.1
72.5°	1821.4	1797.1	2161.8	2951.0	5067.9	10373.3	20974.7	22151.0	20438.0	14051.7	9389.6
75°	1224.9	1217.4	1353.9	1608.3	2279.6	4209.5	13126.0	15723.6	14953.1	8712.7	5281.1
77.5°	961.2	951.9	1032.3	1155.7	1477.4	1660.6	5825.3	8441.5	7813.2	3792.5	2311.4
80°	751.8	744.3	794.8	862.1	1062.2	1047.2	1916.8	3358.6	2599.4	1453.0	1123.9
82.5°	592.8	592.8	634.0	635.8	753.6	714.4	1000.5	1479.2	1297.8	847.1	688.2
85°	542.3	542.3	585.3	475.0	491.8	450.7	620.9	877.1	822.8	347.8	299.2
87.5°	273.0	265.6	491.8	420.8	267.4	239.4	303.0	424.5	456.3	192.6	149.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3
2.5°	4751.8	4750.0	4753.7	4755.6	4770.6	4791.1	4800.5	4813.6	4821.0	4817.3
5°	4695.7	4699.5	4714.4	4725.7	4751.8	4785.5	4804.2	4819.2	4832.3	4826.7
7.5°	4649.0	4658.3	4680.8	4690.1	4705.1	4714.4	4712.6	4718.2	4729.4	4716.3
10°	4622.8	4634.0	4650.9	4637.8	4602.2	4551.8	4505.0	4480.7	4488.2	4478.8
12.5°	4596.6	4611.6	4598.5	4536.8	4437.7	4372.2	4336.7	4340.4	4357.3	4361.0
15°	4581.7	4587.3	4531.2	4415.2	4314.3	4304.9	4323.6	4319.9	4321.7	4321.7
17.5°	4581.7	4566.7	4462.0	4346.0	4303.0	4286.2	4228.2	4155.3	4123.5	4112.3
20°	4606.0	4566.7	4439.5	4362.9	4269.4	4125.4	3972.0	3837.4	3777.5	3760.7
22.5°	4678.9	4611.6	4503.1	4370.4	4104.8	3863.6	3620.5	3459.6	3351.2	3332.5
25°	4826.7	4751.8	4628.4	4271.2	3843.0	3498.9	3222.1	3042.6	2934.1	2919.2
27.5°	5084.7	5036.1	4695.7	4052.4	3495.2	3126.8	2870.6	2732.2	2651.8	2646.2
30°	5473.7	5449.4	4662.1	3728.9	3066.9	2765.8	2642.4	2562.0	2502.2	2500.3
32.5°	6094.6	5898.2	4551.8	3334.3	2676.1	2509.6	2459.1	2410.5	2363.8	2363.8
35°	6893.1	6261.0	4342.3	2911.7	2438.6	2367.5	2303.9	2227.3	2165.5	2161.8
37.5°	7831.9	6485.4	3966.4	2571.3	2326.4	2272.1	2178.6	2064.6	1956.1	1937.4
40°	8780.0	6552.7	3437.2	2361.9	2255.3	2176.8	2062.7	1928.0	1823.3	1817.7
42.5°	9649.6	6423.7	2876.2	2217.9	2184.2	2079.5	1959.8	1840.1	1757.9	1756.0
45°	10378.9	6089.0	2404.9	2081.4	2109.4	1991.6	1885.0	1787.8	1724.2	1711.1
47.5°	11065.2	5615.8	2073.9	1937.4	2034.6	1943.0	1853.2	1761.6	1699.9	1690.5
50°	11861.9	5105.3	1842.0	1797.1	1969.2	1926.2	1879.4	1784.0	1681.2	1670.0
52.5°	12826.8	4664.0	1660.6	1673.7	1918.7	1948.6	1946.7	1847.6	1668.1	1653.1
55°	13904.0	4174.0	1524.1	1572.7	1898.1	1989.8	1963.6	1907.5	1679.3	1656.9
57.5°	14964.3	3601.8	1428.7	1496.1	1868.2	1986.0	1883.2	1802.7	1705.5	1673.7
60°	15759.1	2833.2	1355.8	1428.7	1802.7	1924.3	1795.3	1688.7	1699.9	1675.6
62.5°	15811.4	2189.9	1267.9	1370.8	1703.6	1862.6	1737.3	1638.2	1724.2	1701.8
65°	14882.0	1655.0	1183.8	1301.6	1597.0	1823.3	1681.2	1610.1	1774.7	1750.4
67.5°	12529.5	1331.5	1112.7	1230.5	1490.4	1741.0	1630.7	1583.9	1819.6	1776.6
70°	9045.5	1135.1	1043.5	1144.5	1395.1	1647.5	1585.8	1537.2	1698.0	1630.7
72.5°	5569.1	983.7	965.0	1030.4	1322.1	1550.3	1518.5	1449.3	1529.7	1475.5
75°	2780.8	852.8	877.1	918.2	1219.3	1440.0	1406.3	1337.1	1348.3	1337.1
77.5°	1331.5	729.3	774.2	806.0	1086.5	1314.7	1279.1	1208.1	1195.0	1196.8
80°	843.4	609.6	652.7	675.1	970.6	1168.8	1133.3	1062.2	1211.8	1123.9
82.5°	527.4	495.6	506.8	547.9	845.3	1017.3	970.6	907.0	1092.1	864.0
85°	291.7	346.0	360.9	396.5	650.8	850.9	804.1	723.7	648.9	637.7
87.5°	173.9	205.7	211.3	237.5	437.6	615.3	544.2	516.1	428.2	426.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)