

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: P194778

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194778
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: GLEON-AF-10-LED-E1-T3-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38827 lumens
Efficiency: N/A
Efficacy: 120.2 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): 323
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

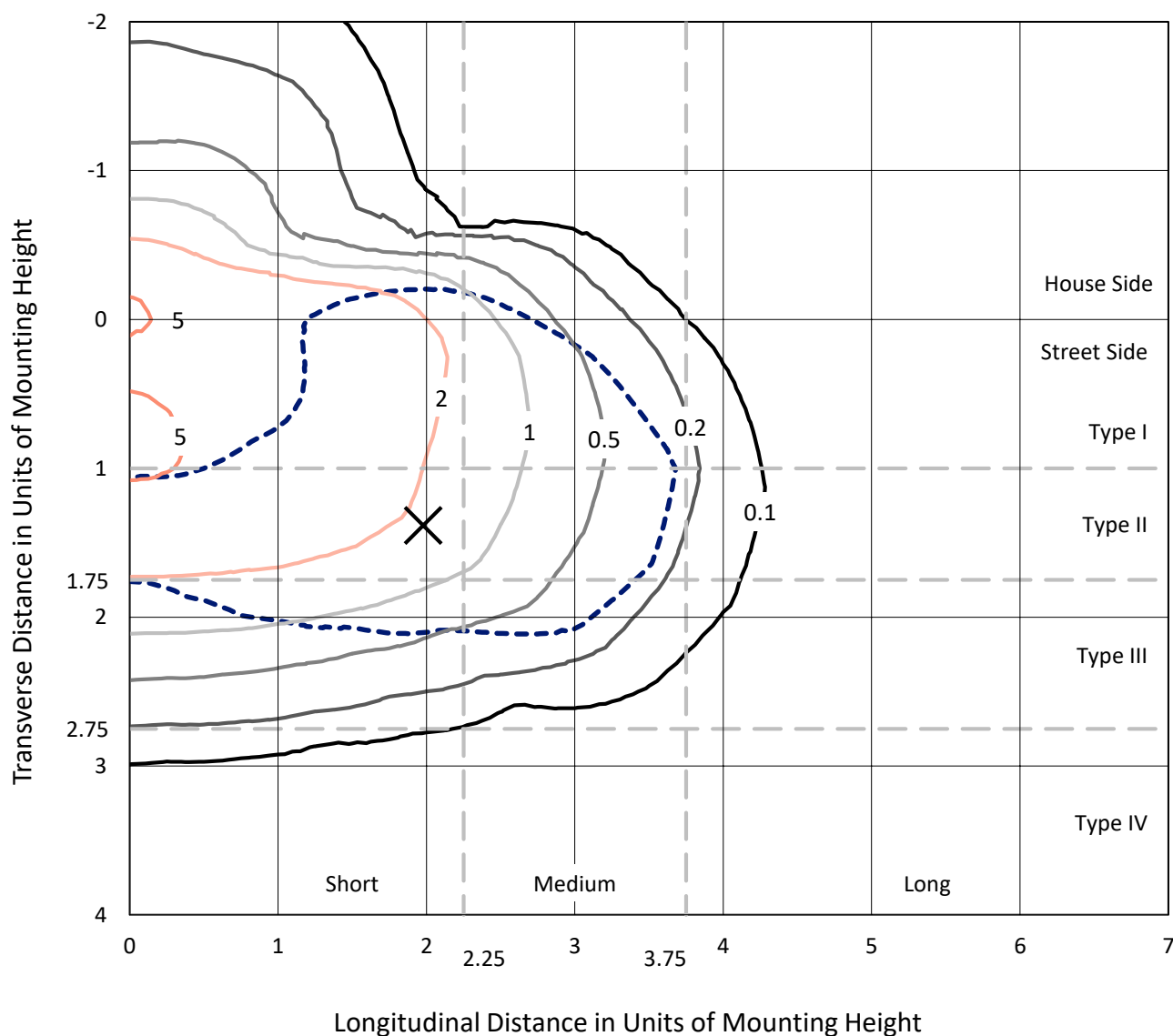


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

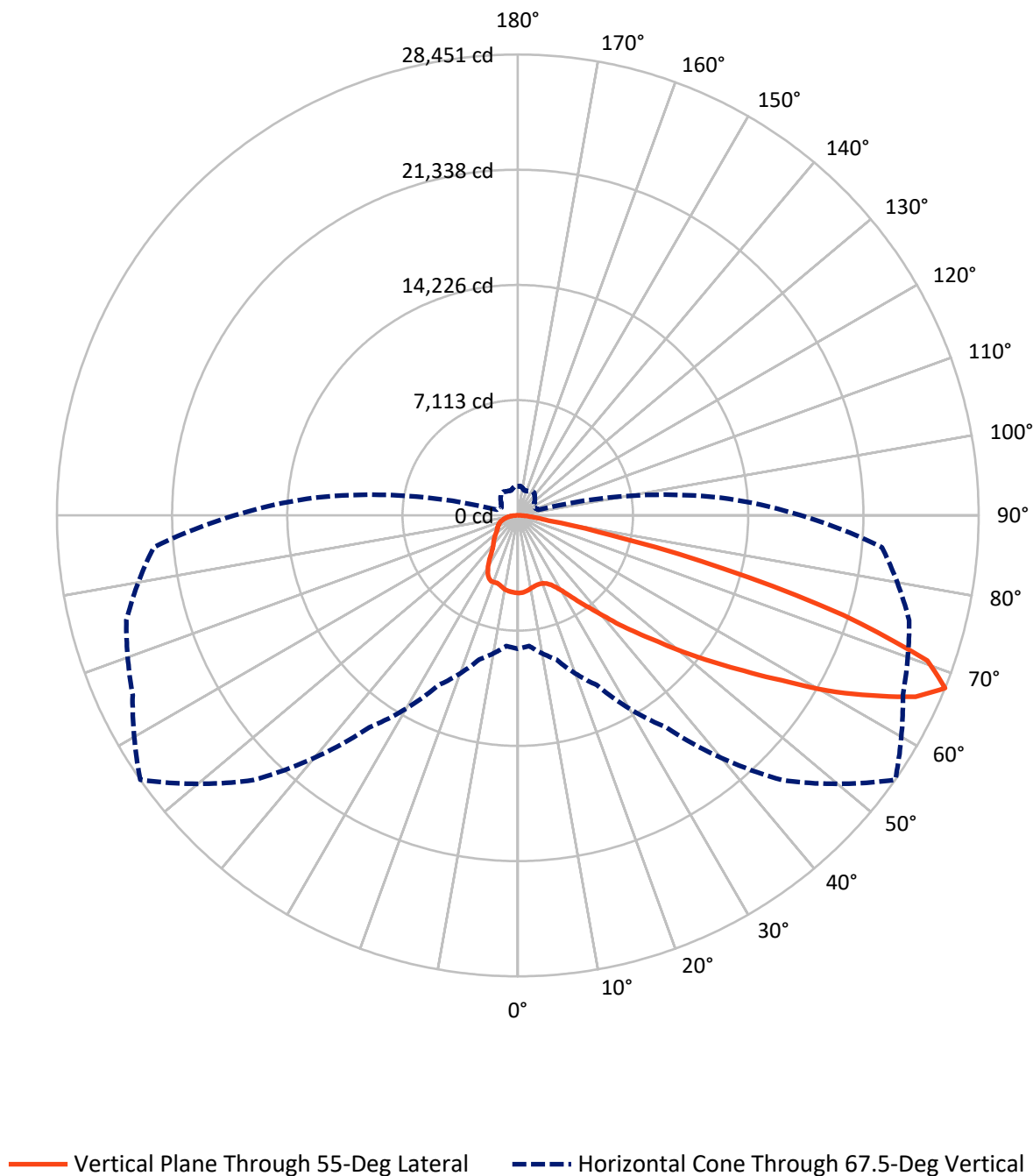


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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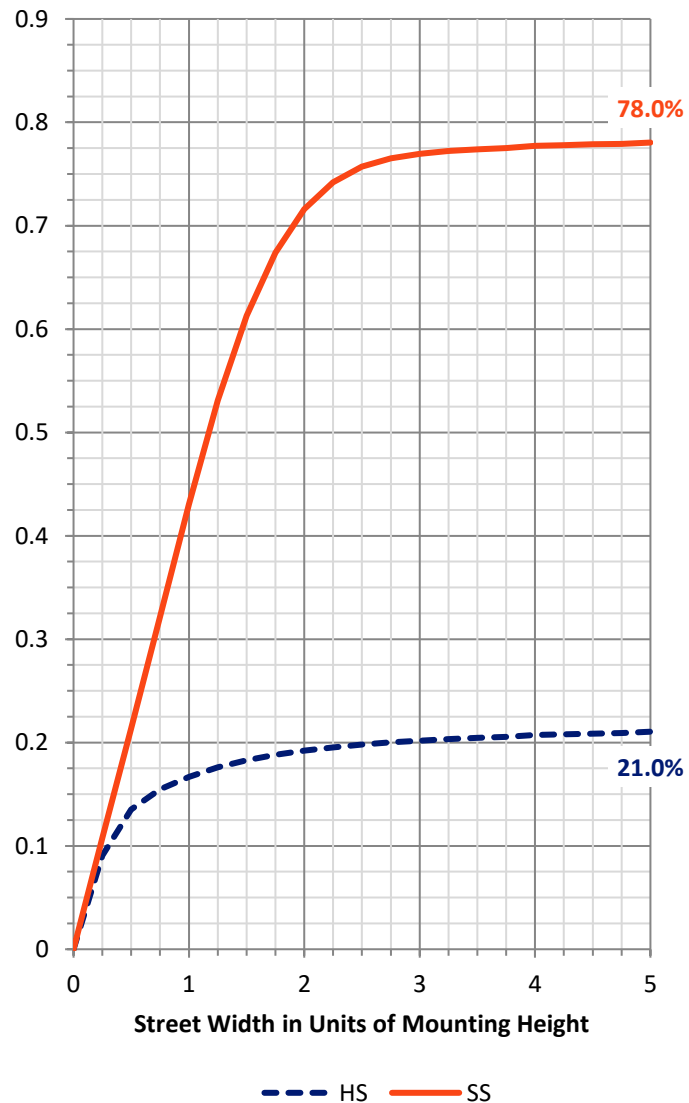
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8387.5	0.0	8387.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30439.5	0.0	30439.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	38827.0	0.0	38827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.9	1.2
10°-20°	1265.7	3.3
20°-30°	2120.1	5.5
30°-40°	3486.4	9.0
40°-50°	5868.7	15.1
50°-60°	9236.9	23.8
60°-70°	11023.3	28.4
70°-80°	4733.6	12.2
80°-90°	645.4	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°	38827.0	100.0
0°-180°	38827.0	100.0

Coefficient of Utilization



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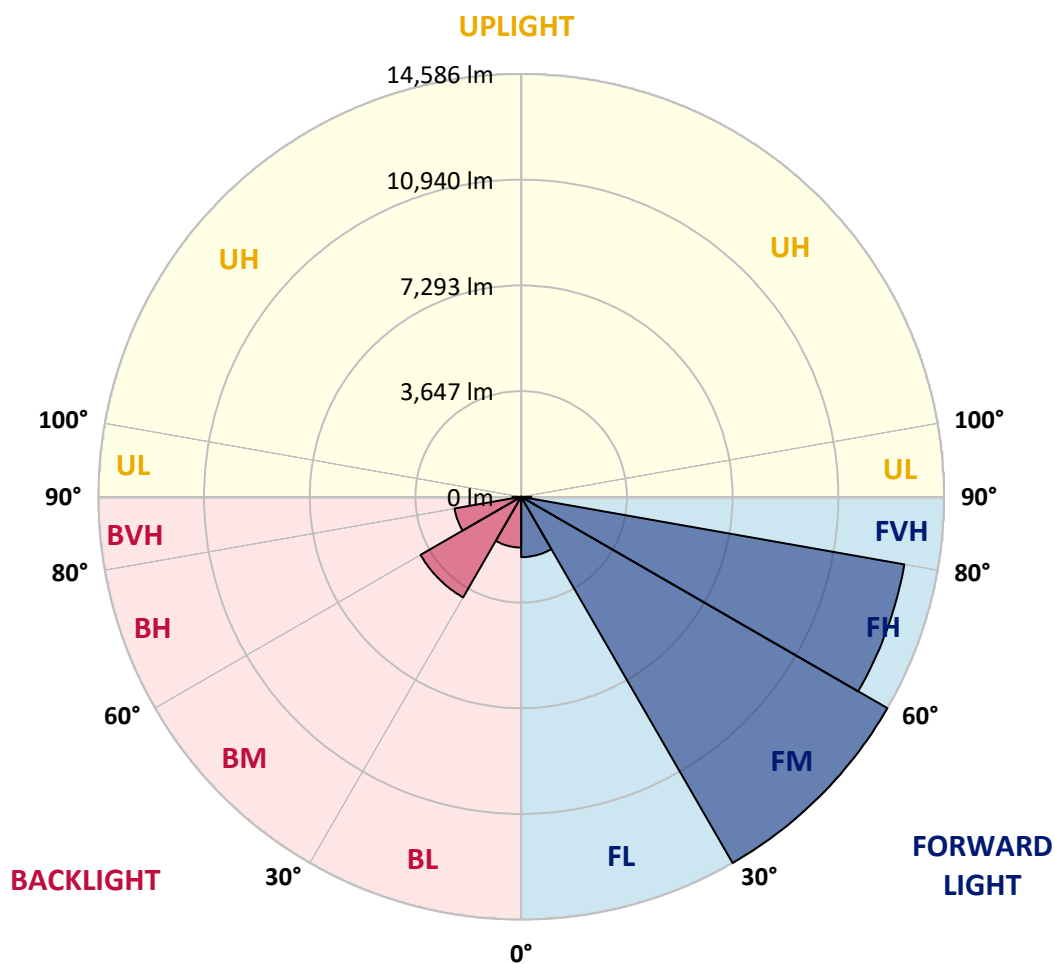
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.2	5.4			
FM	(30°-60°)	14586.3	37.6			
FH	(60°-80°)	13422.7	34.6			G5
FVH	(80°-90°)	349.4	0.9			G3/500
BL	(0°-30°)	1751.5	4.5	B3/2500		
BM	(30°-60°)	4005.8	10.3	B3/5000		
BH	(60°-80°)	2334.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	296.0	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°	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8
2.5°	4746.5	4748.4	4752.2	4767.2	4780.3	4776.5	4778.4	4770.9	4769.0	4757.8	4769.0
5°	4686.5	4692.1	4694.0	4718.4	4733.4	4737.2	4731.5	4722.2	4710.9	4699.7	4705.3
7.5°	4549.6	4564.6	4566.5	4600.3	4624.6	4656.5	4658.4	4660.3	4654.6	4647.1	4658.4
10°	4463.4	4467.1	4465.2	4489.6	4508.4	4544.0	4564.6	4600.3	4615.3	4619.0	4626.5
12.5°	4457.7	4454.0	4448.4	4448.4	4442.7	4457.7	4495.2	4545.9	4581.5	4592.8	4602.1
15°	4517.7	4515.9	4497.1	4469.0	4433.4	4422.1	4454.0	4510.2	4557.1	4581.5	4590.9
17.5°	4652.8	4641.5	4611.5	4547.7	4470.9	4440.9	4444.6	4491.5	4545.9	4577.8	4587.1
20°	4900.3	4900.3	4836.6	4716.5	4579.6	4508.4	4474.6	4502.7	4555.2	4598.4	4611.5
22.5°	5327.9	5331.6	5224.8	5027.8	4797.2	4645.3	4560.9	4555.2	4617.1	4665.9	4680.9
25°	5933.6	5918.6	5768.6	5487.3	5136.6	4885.3	4739.0	4705.3	4757.8	4812.2	4830.9
27.5°	6638.8	6584.4	6406.2	6066.8	5613.0	5245.4	5020.3	4966.0	5016.6	5078.5	5097.2
30°	7336.4	7280.1	7068.2	6696.9	6192.4	5727.3	5404.8	5316.6	5387.9	5476.1	5487.3
32.5°	8034.0	8034.0	7797.7	7364.5	6815.1	6303.1	5916.8	5811.7	5929.9	6036.8	6061.2
35°	8868.6	8872.3	8643.5	8122.2	7531.4	6989.5	6563.8	6486.9	6665.0	6740.0	6798.2
37.5°	9894.4	9915.0	9620.6	8990.5	8343.5	7773.4	7267.0	7162.0	7340.2	7544.6	7732.1
40°	11002.7	11029.0	10704.6	9928.2	9281.2	8684.8	8137.2	7947.8	8244.1	8634.2	8876.1
42.5°	12060.4	12195.5	11882.3	11083.4	10387.6	9770.6	9215.5	8939.8	9311.2	9900.0	10110.1
45°	13588.9	13686.4	13140.6	12416.8	11762.3	11072.1	10337.0	10046.3	10565.8	11308.4	11351.6
47.5°	14607.2	14534.0	14256.5	13806.4	13391.9	12746.8	11640.4	11321.5	12011.7	12885.6	12643.7
50°	15149.2	15171.7	15134.2	15160.4	15175.4	14770.3	13238.2	12801.2	13624.5	14680.3	14123.3
52.5°	15655.5	15505.5	15629.2	16244.4	16987.0	16837.0	14976.6	14520.9	15353.6	16671.9	15687.4
55°	15644.3	15415.5	15818.7	16904.5	18515.4	18688.0	16928.9	16403.8	17182.0	18808.0	17345.2
57.5°	15091.0	15102.3	15723.0	17144.5	19580.6	20428.3	19194.3	18406.7	19121.2	20972.1	18858.6
60°	14329.6	14432.8	15327.3	17105.2	20433.9	21855.4	21973.6	20565.2	21020.9	22939.4	20111.4
62.5°	13101.3	13210.0	14444.0	16696.3	20304.5	23230.1	24486.6	23014.4	23006.9	24132.1	20478.9
65°	11164.0	11132.1	12428.0	15167.9	19218.7	24246.5	26982.7	25131.7	24503.4	24150.9	19740.0
67.5°	8232.8	8090.3	9202.4	11552.2	15974.3	23108.2	28451.1	26234.4	25013.5	22562.5	17482.1
70°	4272.1	4129.5	5029.7	6745.7	10505.8	18035.3	26825.1	25664.3	23886.5	18913.0	13695.8
72.5°	1826.6	1802.2	2167.9	2959.3	5082.2	10402.6	21034.0	22213.6	20495.8	14091.5	9416.2
75°	1228.4	1220.9	1357.8	1612.8	2286.1	4221.4	13163.1	15768.0	14995.4	8737.3	5296.0
77.5°	963.9	954.6	1035.2	1159.0	1481.5	1665.3	5841.7	8465.4	7835.3	3803.2	2317.9
80°	753.9	746.4	797.0	864.5	1065.2	1050.2	1922.2	3368.1	2606.7	1457.2	1127.1
82.5°	594.5	594.5	635.7	637.6	755.8	716.4	1003.3	1483.4	1301.5	849.5	690.1
85°	543.9	543.9	587.0	476.3	493.2	452.0	622.6	879.5	825.2	348.8	300.1
87.5°	273.8	266.3	493.2	422.0	268.2	240.0	303.8	425.7	457.6	193.2	150.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8	4787.8
2.5°	4765.3	4763.4	4767.2	4769.0	4784.0	4804.7	4814.0	4827.2	4834.7	4830.9
5°	4709.0	4712.8	4727.8	4739.0	4765.3	4799.0	4817.8	4832.8	4845.9	4840.3
7.5°	4662.1	4671.5	4694.0	4703.4	4718.4	4727.8	4725.9	4731.5	4742.8	4729.7
10°	4635.9	4647.1	4664.0	4650.9	4615.3	4564.6	4517.7	4493.4	4500.9	4491.5
12.5°	4609.6	4624.6	4611.5	4549.6	4450.2	4384.6	4349.0	4352.7	4369.6	4373.3
15°	4594.6	4600.3	4544.0	4427.7	4326.5	4317.1	4335.8	4332.1	4334.0	4334.0
17.5°	4594.6	4579.6	4474.6	4358.3	4315.2	4298.3	4240.2	4167.0	4135.2	4123.9
20°	4619.0	4579.6	4452.1	4375.2	4281.4	4137.0	3983.3	3848.2	3788.2	3771.3
22.5°	4692.1	4624.6	4515.9	4382.7	4116.4	3874.5	3630.7	3469.4	3360.6	3341.9
25°	4840.3	4765.3	4641.5	4283.3	3853.9	3508.8	3231.2	3051.2	2942.4	2927.4
27.5°	5099.1	5050.3	4709.0	4063.9	3505.0	3135.6	2878.7	2739.9	2659.3	2653.6
30°	5489.2	5464.8	4675.3	3739.5	3075.6	2773.7	2649.9	2569.2	2509.2	2507.4
32.5°	6111.8	5914.9	4564.6	3343.8	2683.6	2516.7	2466.1	2417.3	2370.5	2370.5
35°	6912.6	6278.7	4354.6	2919.9	2445.5	2374.2	2310.4	2233.6	2171.7	2167.9
37.5°	7854.0	6503.7	3977.6	2578.6	2332.9	2278.6	2184.8	2070.4	1961.6	1942.9
40°	8804.8	6571.3	3446.9	2368.6	2261.7	2182.9	2068.5	1933.5	1828.5	1822.8
42.5°	9676.9	6441.9	2884.3	2224.2	2190.4	2085.4	1965.4	1845.4	1762.8	1761.0
45°	10408.2	6106.2	2411.7	2087.3	2115.4	1997.3	1890.4	1792.8	1729.1	1716.0
47.5°	11096.5	5631.7	2079.8	1942.9	2040.4	1948.5	1858.5	1766.6	1704.7	1695.3
50°	11895.4	5119.7	1847.2	1802.2	1974.8	1931.6	1884.7	1789.1	1685.9	1674.7
52.5°	12863.1	4677.1	1665.3	1678.4	1924.1	1954.1	1952.2	1852.9	1672.8	1657.8
55°	13943.3	4185.8	1528.4	1577.2	1903.5	1995.4	1969.1	1912.9	1684.1	1661.6
57.5°	15006.6	3611.9	1432.8	1500.3	1873.5	1991.6	1888.5	1807.8	1710.3	1678.4
60°	15803.7	2841.2	1359.6	1432.8	1807.8	1929.7	1800.3	1693.4	1704.7	1680.3
62.5°	15856.2	2196.0	1271.5	1374.6	1708.5	1867.9	1742.2	1642.8	1729.1	1706.6
65°	14924.1	1659.7	1187.1	1305.3	1601.6	1828.5	1685.9	1614.7	1779.7	1755.3
67.5°	12564.9	1335.3	1115.8	1234.0	1494.7	1746.0	1635.3	1588.4	1824.7	1781.6
70°	9071.1	1138.3	1046.5	1147.7	1399.0	1652.2	1590.3	1541.5	1702.8	1635.3
72.5°	5584.8	986.4	967.7	1033.3	1325.9	1554.7	1522.8	1453.4	1534.0	1479.7
75°	2788.7	855.2	879.5	920.8	1222.7	1444.0	1410.3	1340.9	1352.1	1340.9
77.5°	1335.3	731.4	776.4	808.3	1089.6	1318.4	1282.7	1211.5	1198.4	1200.2
80°	845.8	611.4	654.5	677.0	973.3	1172.1	1136.5	1065.2	1215.2	1127.1
82.5°	528.9	497.0	508.2	549.5	847.7	1020.2	973.3	909.5	1095.2	866.4
85°	292.6	346.9	361.9	397.6	652.6	853.3	806.4	725.8	650.7	639.5
87.5°	174.4	206.3	211.9	238.2	438.8	617.0	545.7	517.6	429.5	427.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)