

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: P193258

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37769.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

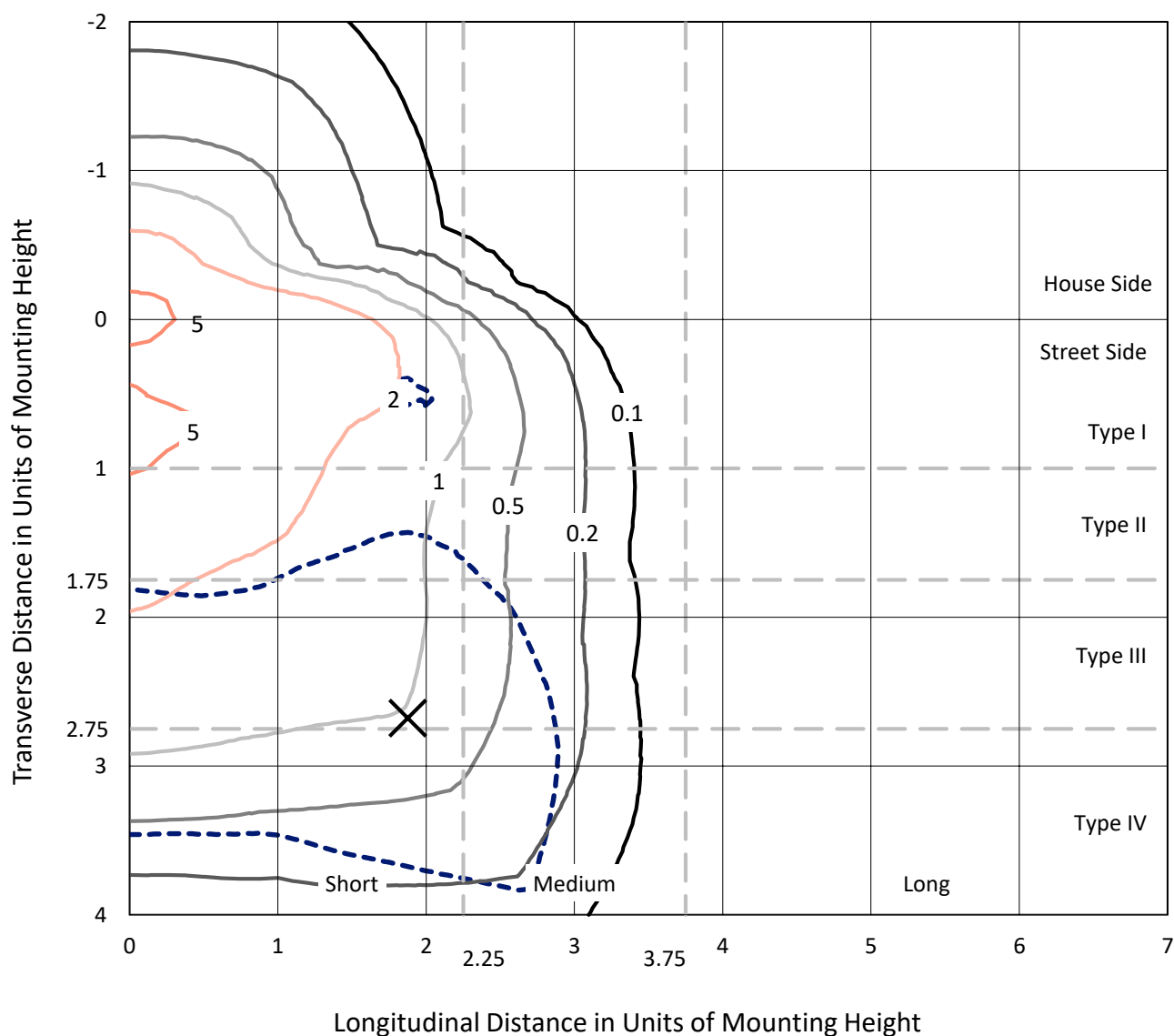


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

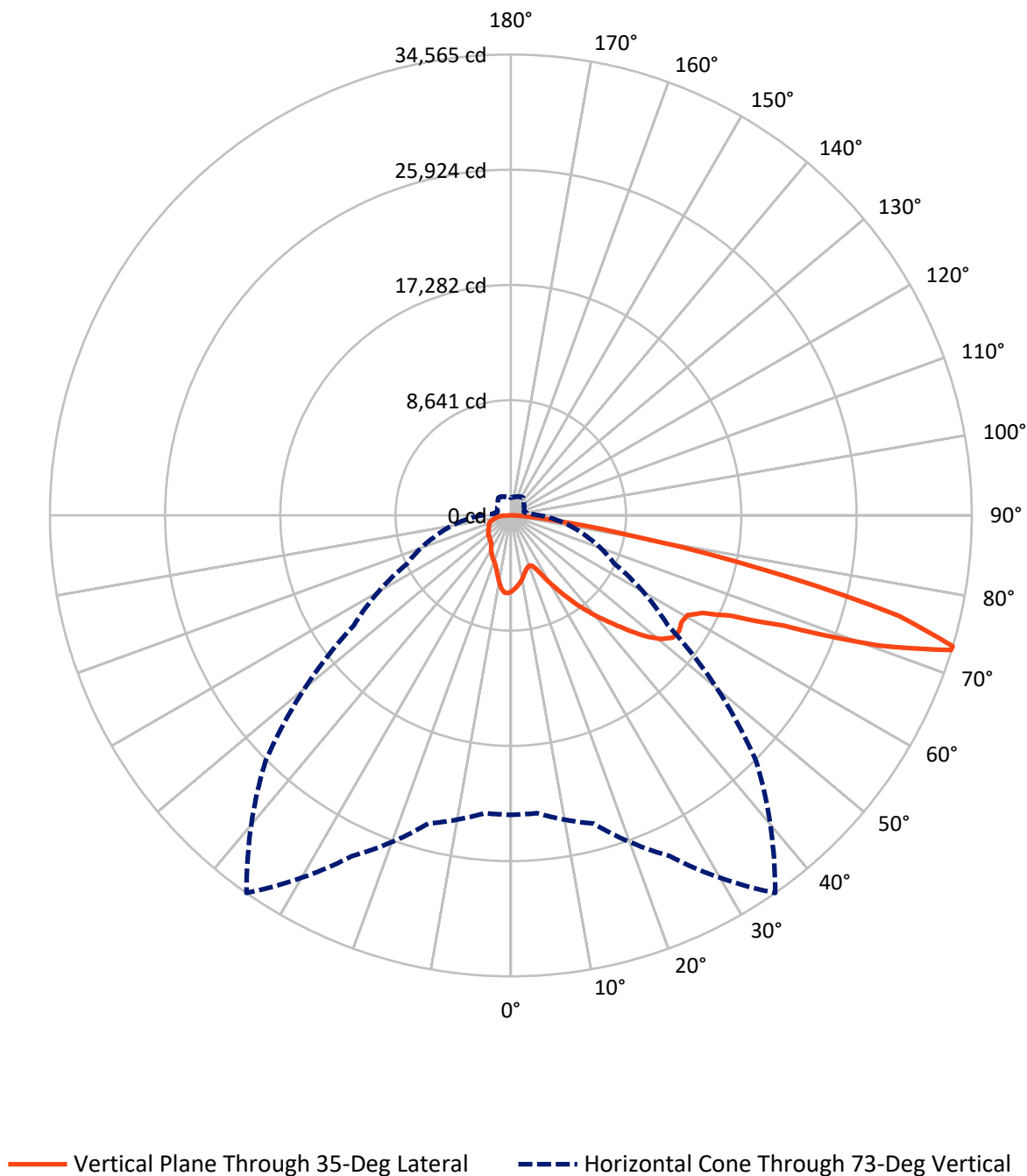


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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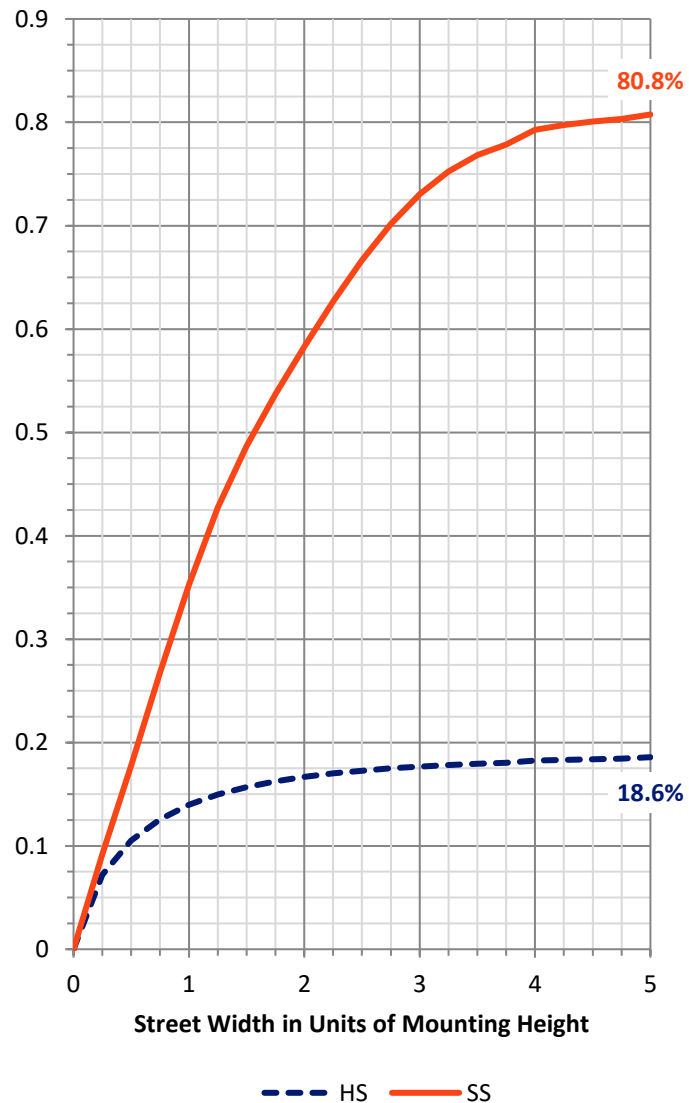
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7203.8	0.0	7203.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	30566.1	0.0	30566.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	37769.8	0.0	37769.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.1	1.4
10°-20°	1288.0	3.4
20°-30°	2082.3	5.5
30°-40°	3491.7	9.2
40°-50°	5382.3	14.3
50°-60°	7221.0	19.1
60°-70°	9619.8	25.5
70°-80°	7337.0	19.4
80°-90°	831.6	2.2
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°	37769.8	100.0
0°-180°	37769.8	100.0

Coefficient of Utilization



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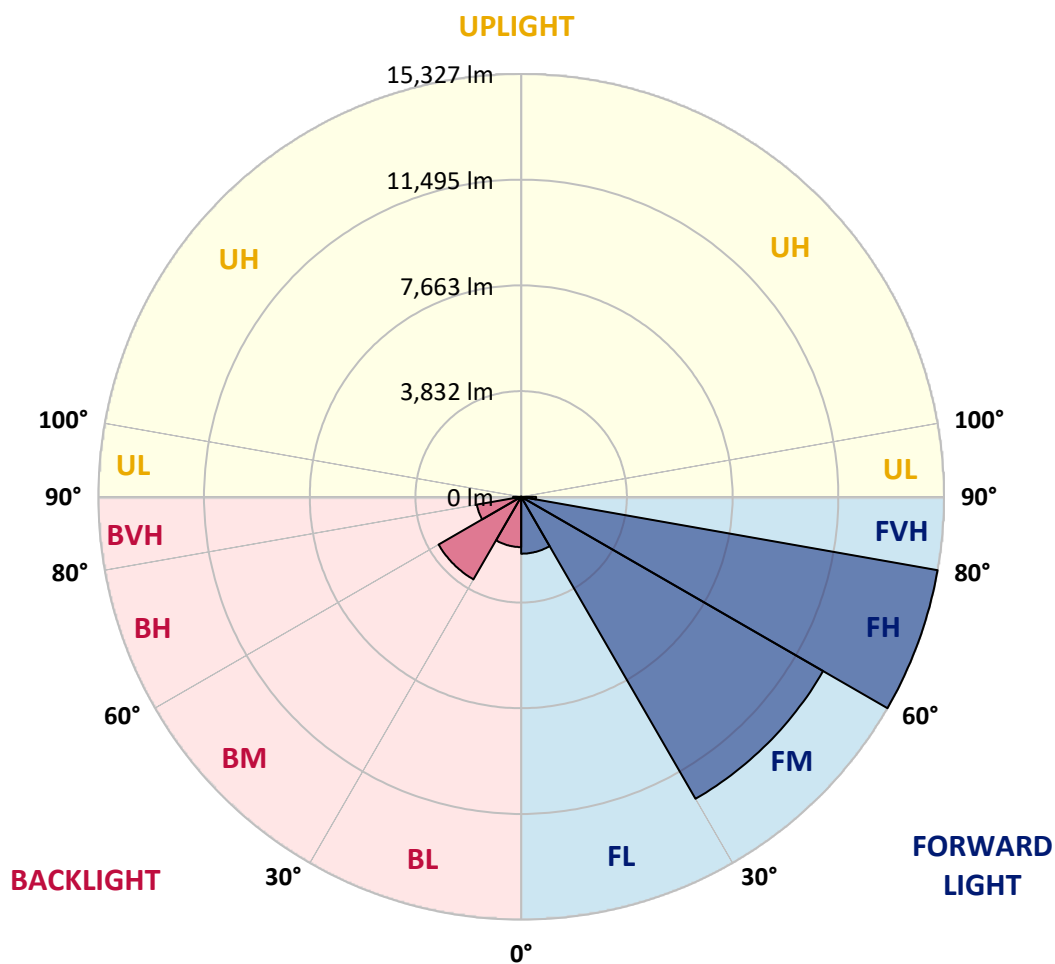
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2063.5	5.5			
FM	(30°-60°)	12638.0	33.5			
FH	(60°-80°)	15327.0	40.6			G5
FVH	(80°-90°)	537.6	1.4			G4/750
BL	(0°-30°)	1822.9	4.8	B3/2500		
BM	(30°-60°)	3457.0	9.2	B3/5000		
BH	(60°-80°)	1629.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	294.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6
2.5°	5475.7	5486.7	5473.9	5490.3	5517.5	5546.4	5566.4	5595.5	5628.1	5673.4	5684.3
5°	5218.2	5234.5	5234.5	5263.6	5316.1	5363.3	5406.8	5454.0	5522.9	5600.8	5631.8
7.5°	4935.2	4944.3	4960.6	5004.2	5080.3	5147.4	5209.2	5285.3	5379.6	5482.9	5537.4
10°	4594.3	4606.9	4632.4	4694.0	4797.3	4889.9	4978.7	5084.0	5203.7	5332.4	5401.3
12.5°	4353.0	4349.4	4360.3	4405.7	4496.3	4608.8	4737.5	4871.8	5018.8	5169.2	5252.6
15°	4271.4	4251.5	4209.8	4198.9	4247.8	4360.3	4509.0	4674.0	4850.0	5031.4	5134.7
17.5°	4322.2	4287.8	4173.4	4090.0	4082.8	4168.0	4325.8	4510.8	4714.0	4935.2	5064.0
20°	4641.5	4559.8	4278.7	4084.5	4017.5	4059.2	4197.0	4392.9	4632.4	4926.2	5091.3
22.5°	5404.9	5285.3	4688.6	4327.6	4100.9	4050.1	4153.5	4362.0	4641.5	5038.6	5249.1
25°	6516.9	6346.4	5392.3	4933.4	4465.4	4195.2	4218.8	4432.8	4770.2	5299.8	5553.7
27.5°	7394.6	7284.1	6311.9	5787.7	5129.2	4587.0	4431.0	4610.5	5033.1	5727.8	5987.2
30°	7917.0	7849.9	7294.9	6756.3	5976.4	5210.9	4837.4	4944.3	5444.9	6320.9	6535.1
32.5°	8522.9	8483.0	8210.9	7715.8	6890.4	6030.8	5481.2	5443.1	5996.2	7033.8	7131.7
35°	9150.5	9137.7	8978.1	8622.6	7871.7	7111.8	6335.5	6077.9	6596.6	7773.8	7712.1
37.5°	9734.5	9712.7	9620.2	9413.4	8898.3	8272.6	7206.0	6729.1	7244.1	8481.1	8207.2
40°	10810.0	10639.5	10322.0	10166.1	9935.8	9250.2	7897.2	7336.6	7915.3	9155.8	8635.3
42.5°	12121.3	11843.8	11252.5	11038.6	11005.9	10021.0	8368.7	7926.1	8591.8	9825.1	9056.1
45°	13153.4	12892.1	12382.6	12112.3	12232.0	10719.3	8842.1	8555.5	9288.2	10527.0	9489.6
47.5°	14254.3	13844.5	13169.7	13251.3	13512.5	11379.6	9324.5	9232.1	10051.9	11312.3	10028.3
50°	14294.3	13980.5	13684.8	14172.7	14579.0	11987.2	9928.5	9941.2	10985.9	12301.0	10744.7
52.5°	13465.3	13398.3	13868.0	14635.2	15221.0	12467.8	10615.9	10674.0	12181.2	13436.2	11531.9
55°	13175.1	13099.0	13641.2	14473.8	15308.1	12864.9	11361.5	11466.5	13626.9	14633.4	12299.1
57.5°	13882.5	13713.7	13750.1	14397.6	15096.0	13300.2	12174.0	12386.1	15197.5	15679.9	12792.4
60°	15859.5	15498.5	14813.0	14796.7	15210.2	13953.3	13113.6	13372.8	16829.9	16180.5	12600.3
62.5°	18632.7	18271.8	16987.6	16151.5	16089.8	15030.6	14267.1	14335.9	17772.9	15502.1	11426.7
65°	21634.5	21311.7	19877.0	18696.2	18126.6	16815.3	15607.3	14765.9	17464.6	13635.9	9373.5
67.5°	25278.3	24931.9	23698.6	22608.5	22060.7	19695.6	16548.7	14354.1	15507.6	10563.3	6738.1
70°	27826.7	27473.0	26986.9	27870.2	29210.6	23851.0	16670.2	12680.0	11582.7	7021.1	4055.6
72.5°	24502.1	24337.0	25223.9	28944.0	34526.7	26372.0	15068.7	9232.1	6727.2	3727.3	2347.0
73°	22448.9	22412.6	23925.3	28191.3	34564.8	25983.9	14366.8	8580.9	5769.6	3297.5	2145.7
75°	10137.1	10429.2	13744.7	21533.0	30030.4	21411.4	10111.7	4922.5	3259.3	2278.0	1619.7
77.5°	2435.8	2537.4	4300.5	10226.0	18964.6	12759.8	4581.6	2434.1	2084.0	1608.9	1182.6
80°	1037.4	1072.0	1656.0	3778.0	8929.1	5138.4	2111.2	1630.5	1441.9	1122.7	828.8
82.5°	576.8	613.1	939.5	1714.0	3603.9	1752.1	1287.7	1135.4	948.6	676.6	538.6
85°	326.4	346.5	549.6	957.6	1527.2	703.7	770.9	754.6	535.1	348.2	264.9
87.5°	154.2	166.8	264.9	444.3	598.5	275.7	391.8	431.7	335.5	212.2	137.8
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°	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6	5700.6
2.5°	5697.0	5729.7	5767.8	5787.7	5805.8	5827.6	5849.4	5849.4	5853.0	5854.7
5°	5657.1	5724.2	5784.0	5809.5	5814.9	5814.9	5809.5	5780.5	5755.0	5765.9
7.5°	5573.7	5671.6	5722.5	5713.3	5644.5	5564.6	5497.5	5415.9	5374.1	5367.0
10°	5454.0	5566.4	5575.5	5484.9	5314.3	5143.8	5002.3	4864.6	4799.2	4783.0
12.5°	5321.6	5424.9	5367.0	5180.1	4906.2	4657.7	4478.2	4338.4	4276.9	4260.6
15°	5214.5	5285.3	5138.4	4844.5	4500.0	4237.0	4088.3	3984.8	3941.3	3928.6
17.5°	5158.3	5172.9	4904.4	4507.2	4140.8	3921.4	3828.9	3779.9	3763.6	3754.4
20°	5185.6	5084.0	4681.3	4193.4	3847.0	3692.9	3671.0	3658.3	3654.7	3649.3
22.5°	5321.6	5056.7	4476.4	3895.9	3589.3	3522.3	3540.4	3538.7	3535.0	3531.4
25°	5564.6	5080.3	4276.9	3612.9	3373.6	3359.0	3391.7	3391.7	3377.2	3377.2
27.5°	5885.7	5129.2	4053.7	3344.5	3177.7	3179.6	3204.9	3197.7	3181.3	3170.4
30°	6277.4	5160.1	3792.6	3103.3	2994.5	2987.2	2994.5	2963.6	2914.7	2911.1
32.5°	6678.3	5122.1	3489.6	2889.4	2800.5	2784.2	2778.7	2735.2	2678.9	2662.6
35°	7041.0	4982.4	3181.3	2718.8	2615.4	2579.2	2604.5	2590.1	2539.3	2526.5
37.5°	7305.8	4723.1	2903.8	2568.2	2483.0	2473.9	2490.2	2495.7	2435.8	2423.2
40°	7483.6	4371.1	2666.3	2441.3	2457.7	2423.2	2368.7	2330.7	2312.6	2307.1
42.5°	7626.9	4004.8	2466.7	2381.5	2463.0	2363.3	2245.4	2183.8	2216.5	2231.0
45°	7792.0	3647.5	2299.8	2307.1	2435.8	2294.5	2160.2	2100.3	2113.1	2116.7
47.5°	8018.6	3212.1	2120.2	2187.4	2345.1	2247.3	2107.6	2022.4	1962.6	1935.3
50°	8332.4	2697.1	1933.5	2053.2	2256.3	2212.8	2026.0	1935.3	1824.6	1799.3
52.5°	8550.1	2216.5	1779.3	1940.8	2176.6	2143.8	1960.6	1842.7	1726.8	1704.9
55°	8432.2	1841.0	1645.1	1815.6	2071.3	2058.7	1906.2	1748.4	1657.8	1639.7
57.5°	7842.7	1603.4	1541.6	1697.7	1942.5	1986.2	1833.7	1668.6	1603.4	1590.7
60°	6718.2	1454.7	1476.4	1617.9	1837.3	1913.5	1761.2	1625.1	1581.6	1572.6
62.5°	5212.8	1355.0	1427.5	1559.7	1755.7	1862.8	1721.3	1619.7	1603.4	1592.5
65°	3734.5	1275.0	1374.8	1501.8	1681.4	1815.6	1706.7	1612.4	1616.1	1606.9
67.5°	2537.4	1204.4	1311.3	1436.5	1608.9	1773.9	1686.8	1587.0	1632.4	1621.5
70°	1775.7	1135.4	1237.1	1353.0	1518.1	1715.8	1650.5	1549.0	1545.4	1501.8
72.5°	1385.7	1044.7	1135.4	1237.1	1402.1	1634.2	1577.9	1463.7	1403.9	1358.5
73°	1322.2	1023.0	1110.1	1211.5	1376.6	1614.2	1558.0	1440.1	1373.1	1331.4
75°	1093.6	928.6	1008.5	1099.1	1267.9	1519.9	1460.0	1333.1	1247.8	1222.5
77.5°	859.8	794.5	870.6	952.2	1117.2	1382.1	1314.9	1193.4	1146.3	1124.5
80°	636.7	658.4	725.5	798.0	968.6	1235.1	1175.3	1053.8	1264.2	1211.5
82.5°	448.0	498.8	560.5	625.7	812.6	1091.8	1019.3	894.2	925.0	769.0
85°	264.9	326.4	384.5	440.8	585.8	905.1	841.7	712.8	584.0	556.7
87.5°	154.2	181.4	197.6	255.7	402.6	682.0	593.1	527.8	302.8	205.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)