

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: P194824

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3R-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29409 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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



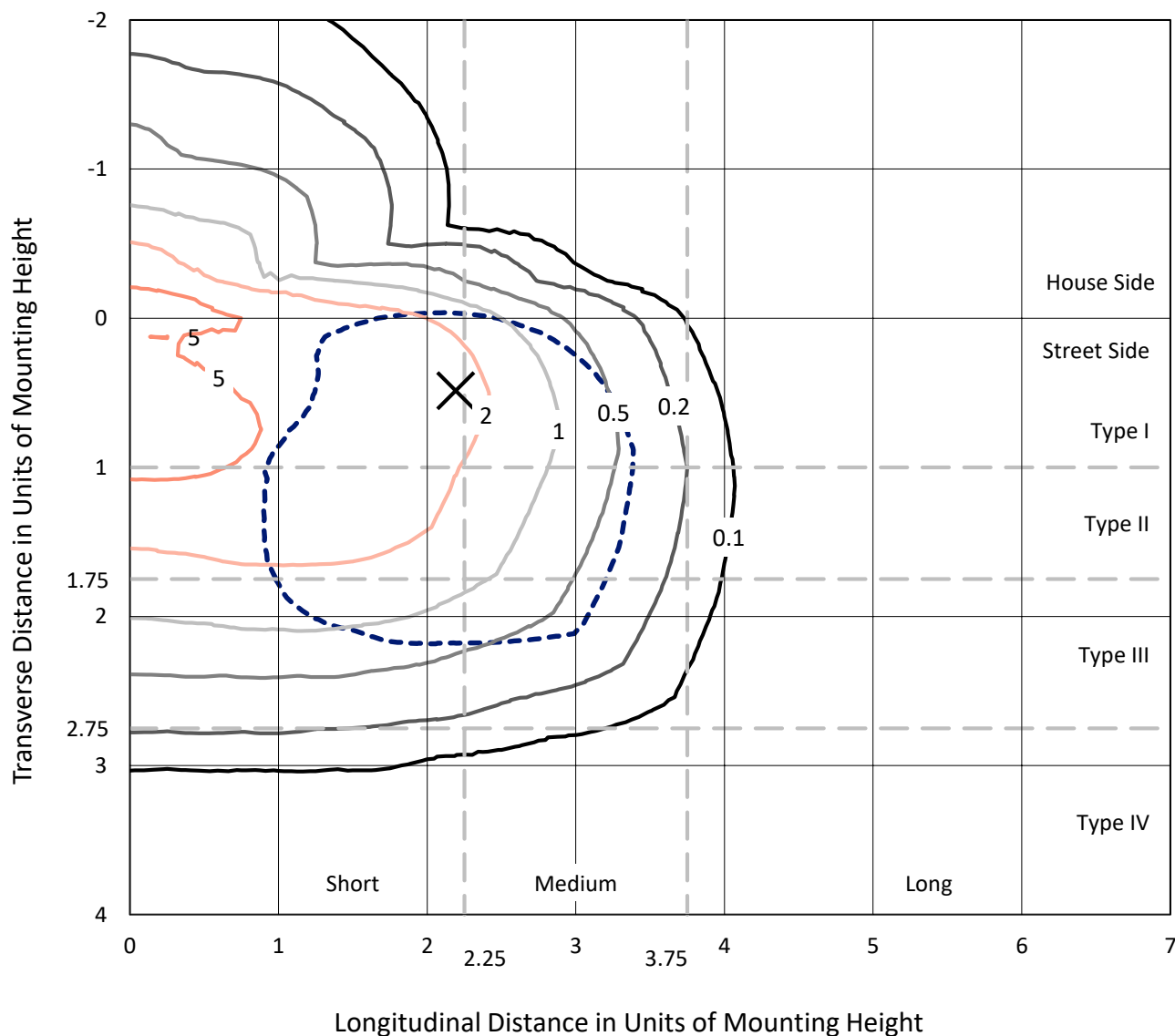
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

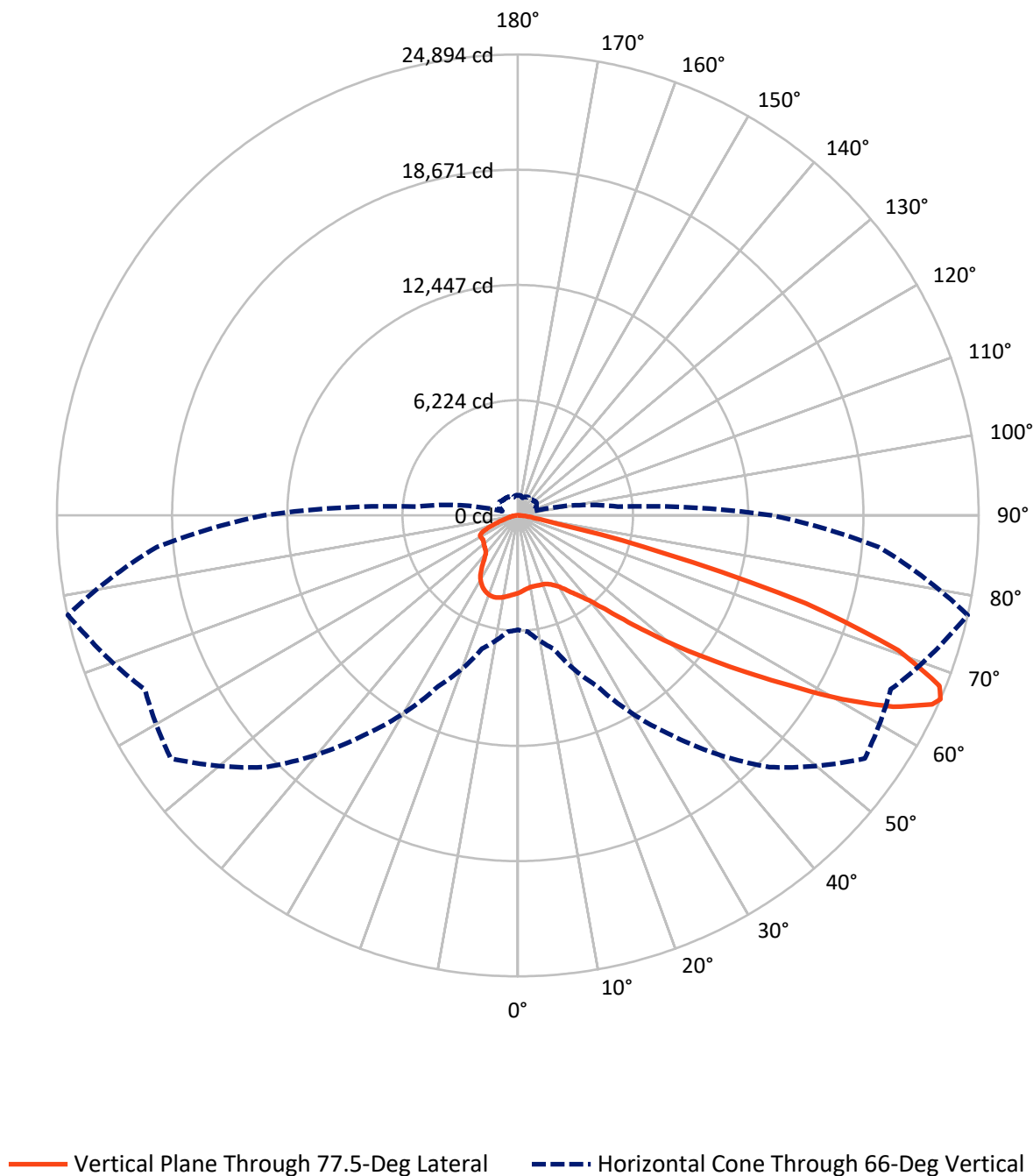


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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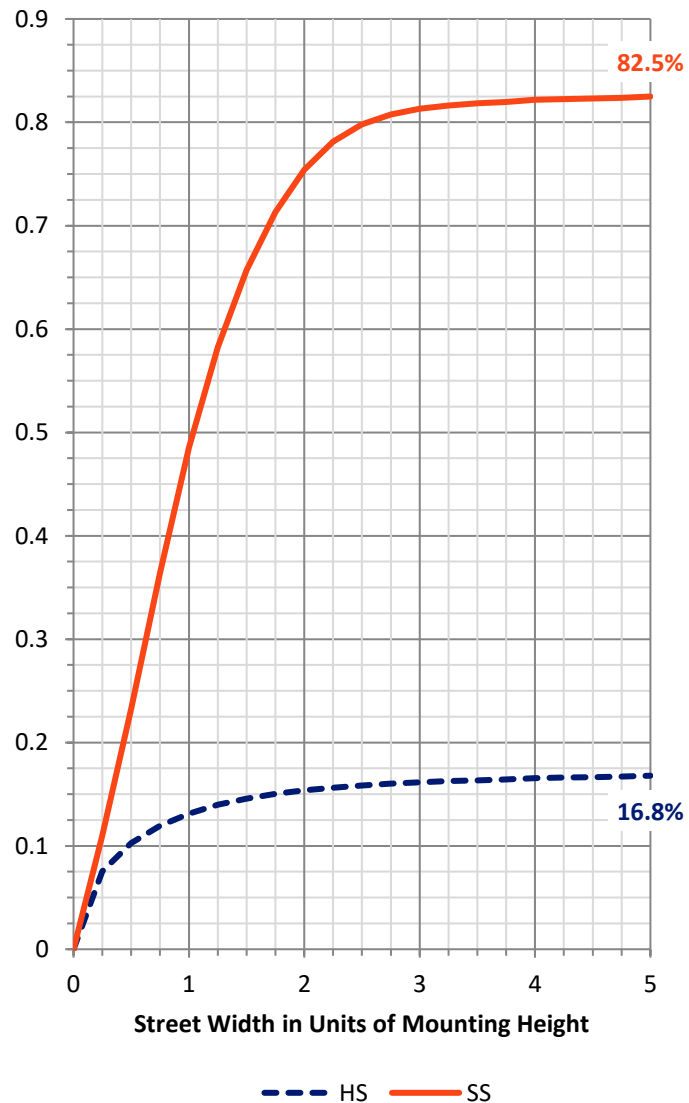
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5024.3	0.0	5024.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24384.7	0.0	24384.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	29409.0	0.0	29409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	1.3
10°-20°	1056.3	3.6
20°-30°	1802.8	6.1
30°-40°	2885.9	9.8
40°-50°	4458.4	15.2
50°-60°	6323.6	21.5
60°-70°	8459.3	28.8
70°-80°	3673.7	12.5
80°-90°	374.6	1.3
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°	29409.0	100.0
0°-180°	29409.0	100.0

Coefficient of Utilization



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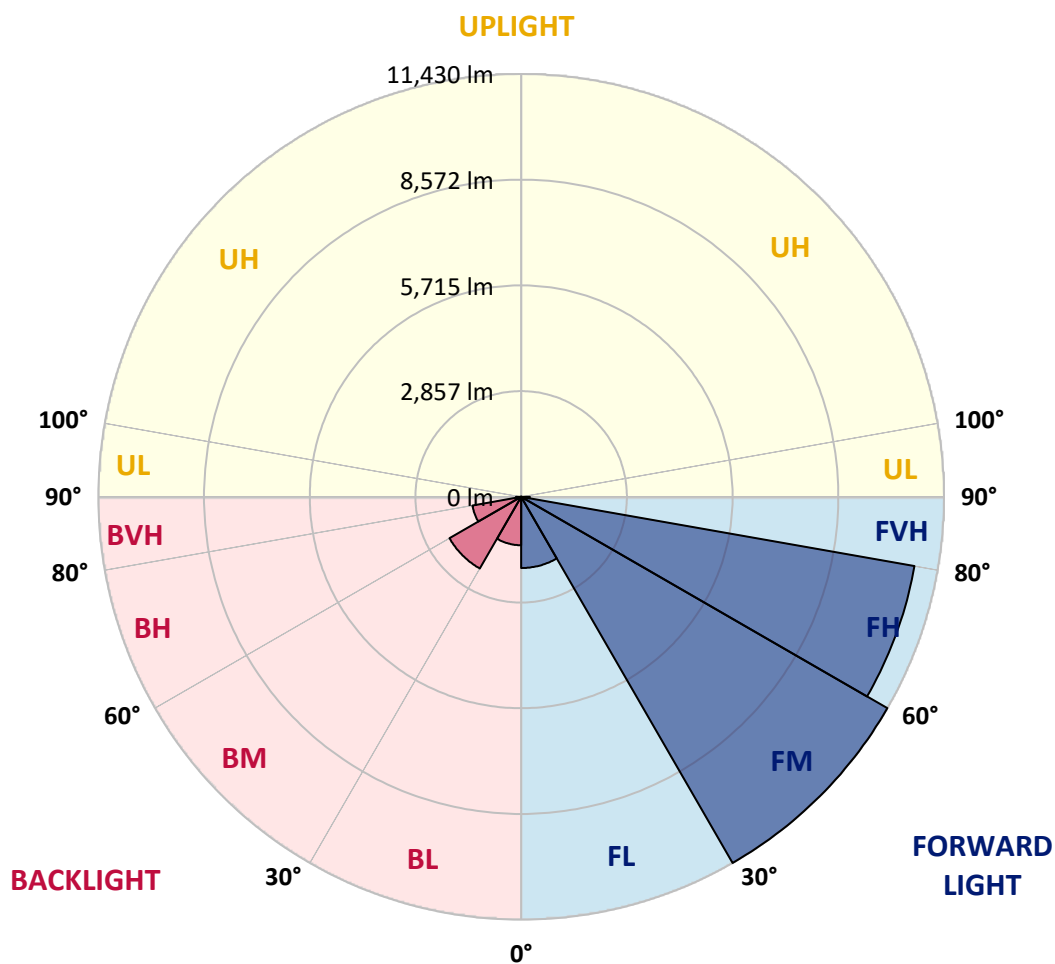
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1925.0	6.5			
FM	(30°-60°)	11429.9	38.9			
FH	(60°-80°)	10794.9	36.7			G4/12000
FVH	(80°-90°)	234.9	0.8			G3/500
BL	(0°-30°)	1308.5	4.4	B3/2500		
BM	(30°-60°)	2238.1	7.6	B2/2500		
BH	(60°-80°)	1338.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	139.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9
2.5°	3707.4	3732.4	3753.2	3772.7	3811.6	3875.5	3949.1	4008.9	4095.0	4111.7	4157.6
5°	3366.9	3366.9	3383.6	3412.8	3465.6	3561.5	3661.5	3794.9	3982.5	4027.0	4149.2
7.5°	3201.6	3202.9	3212.7	3237.7	3283.5	3371.1	3480.9	3637.9	3892.2	3965.8	4174.2
10°	3262.7	3248.8	3228.0	3215.4	3222.4	3273.8	3378.0	3553.1	3836.6	3931.1	4229.8
12.5°	3604.5	3578.1	3505.9	3410.0	3318.3	3280.8	3341.9	3512.8	3813.0	3922.7	4303.5
15°	4163.1	4152.0	4017.2	3818.5	3596.2	3410.0	3368.3	3497.5	3815.7	3932.5	4391.0
17.5°	4863.5	4848.2	4670.3	4381.3	4018.6	3655.9	3461.4	3510.0	3825.5	3949.1	4475.8
20°	5570.8	5523.5	5331.8	4987.1	4521.6	3990.8	3615.6	3542.0	3838.0	3967.2	4564.7
22.5°	6098.8	6059.9	5887.6	5552.7	5016.3	4378.5	3822.7	3597.6	3878.3	4020.0	4674.5
25°	6562.9	6565.7	6394.8	6071.0	5516.6	4789.8	4089.5	3746.3	3981.1	4128.4	4824.6
27.5°	7136.8	7103.4	6943.6	6622.7	6011.2	5205.3	4411.9	3950.5	4134.0	4282.6	5021.9
30°	7823.2	7799.6	7614.8	7250.7	6560.1	5651.4	4780.1	4188.1	4331.3	4485.5	5280.3
32.5°	8630.6	8619.5	8427.7	7959.4	7193.8	6176.6	5212.3	4502.2	4625.9	4785.7	5651.4
35°	9578.3	9579.6	9353.1	8790.4	7887.2	6788.0	5702.8	4906.5	4984.4	5151.1	6093.2
37.5°	10161.9	10232.7	10148.0	9574.1	8672.3	7471.7	6339.2	5442.9	5392.9	5561.0	6567.1
40°	10286.9	10373.1	10641.3	10349.5	9550.5	8224.8	6903.3	5958.4	5895.9	6101.6	7177.1
42.5°	10111.9	10231.4	10798.3	11004.0	10482.9	9153.1	7662.1	6724.1	6644.9	6921.4	7935.8
45°	10007.6	10096.6	10752.4	11344.4	11291.6	10202.2	8627.8	7685.7	7656.5	8019.2	8811.2
47.5°	9827.0	9907.6	10538.4	11423.6	11766.8	11163.7	9788.1	8861.2	8918.2	9393.4	9799.2
50°	9924.3	9957.6	10299.4	11222.1	11904.4	11868.3	11084.5	10223.0	10417.6	11010.9	10917.8
52.5°	9910.4	9996.5	10271.7	10891.4	11922.5	12303.2	12361.6	11741.8	12151.7	12832.6	12158.7
55°	8012.2	8170.6	9945.1	10808.0	11986.4	12729.8	13498.2	13342.6	14106.8	14900.3	13559.4
57.5°	7650.9	7751.0	8734.8	10983.1	12325.4	13544.1	14762.7	15104.6	16382.9	17304.2	15265.7
60°	7580.1	7703.7	8722.3	11197.1	13013.3	14871.1	16637.2	17237.5	19152.3	20161.2	17244.5
62.5°	7359.1	7492.5	8640.3	11169.3	13990.1	16706.7	19037.0	19505.3	21778.6	22759.7	18899.4
65°	6658.8	6783.8	7971.9	10720.5	14648.8	18666.0	21877.3	21584.1	23851.9	24589.7	19724.8
66°	6179.4	6301.7	7445.3	10192.4	14495.9	19221.8	22883.3	22227.5	24316.0	24894.0	19563.7
67.5°	5302.6	5398.5	6422.6	9009.9	13683.0	19377.5	23729.6	22711.0	24364.6	24568.9	18642.4
70°	3350.2	3378.0	4174.2	6219.7	10357.8	16805.4	22441.4	21510.4	22355.3	21802.2	15628.4
72.5°	1453.5	1443.8	2003.7	3164.0	5864.0	11276.3	18153.3	17748.9	17536.3	16274.6	10940.0
75°	808.7	819.8	1040.8	1468.8	2383.1	5538.8	11875.2	11363.8	9594.9	8187.3	4960.7
77.5°	648.9	664.2	862.9	1042.2	1070.0	1931.5	5556.9	4521.6	2722.2	2184.4	1378.4
80°	512.7	540.5	753.1	811.5	721.2	796.2	1795.3	1435.4	1076.9	988.0	714.2
82.5°	405.8	425.2	646.1	614.2	504.4	536.4	860.1	837.9	700.3	637.8	412.7
85°	291.8	327.9	530.8	462.7	330.7	361.3	571.1	547.5	401.6	327.9	182.0
87.5°	119.5	155.6	375.2	307.1	184.8	168.1	284.9	268.2	190.4	139.0	90.3
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°	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9	4190.9
2.5°	4186.8	4220.1	4263.2	4289.6	4303.5	4313.2	4328.5	4327.1	4331.3	4332.7	4338.2
5°	4214.5	4270.1	4332.7	4349.3	4349.3	4334.0	4318.8	4293.7	4284.0	4281.2	4284.0
7.5°	4286.8	4347.9	4402.1	4382.7	4341.0	4279.9	4200.6	4131.2	4093.7	4081.1	4078.4
10°	4378.5	4452.2	4474.4	4400.7	4278.5	4131.2	3974.2	3860.2	3794.9	3776.8	3771.3
12.5°	4489.7	4559.2	4528.6	4373.0	4146.5	3908.8	3692.1	3510.0	3373.9	3330.8	3328.0
15°	4612.0	4666.2	4559.2	4286.8	3949.1	3599.0	3212.7	2898.6	2729.1	2674.9	2670.7
17.5°	4725.9	4753.7	4541.1	4136.7	3658.7	3091.8	2579.0	2337.2	2278.9	2292.8	2295.6
20°	4823.2	4823.2	4480.0	3921.3	3201.6	2423.4	2099.6	2095.5	2137.1	2178.8	2187.2
22.5°	4930.2	4866.2	4373.0	3617.0	2554.0	1982.9	1935.7	1974.6	2021.8	2067.7	2074.6
25°	5062.2	4901.0	4224.3	3155.7	2007.9	1800.9	1818.9	1850.9	1874.5	1903.7	1907.9
27.5°	5209.5	4945.5	4028.3	2520.7	1742.5	1686.9	1700.8	1711.9	1709.2	1720.3	1723.1
30°	5385.9	4996.9	3760.2	1970.4	1632.7	1589.7	1564.6	1554.9	1554.9	1573.0	1579.9
32.5°	5622.2	5073.3	3375.2	1688.3	1579.9	1520.2	1439.6	1403.5	1417.4	1478.5	1492.4
35°	5882.0	5155.3	2854.2	1592.4	1568.8	1488.2	1363.2	1296.5	1297.9	1354.8	1372.9
37.5°	6165.5	5259.5	2283.1	1574.4	1593.8	1489.6	1322.9	1231.2	1193.6	1193.6	1200.6
40°	6528.2	5366.5	1848.1	1586.9	1646.6	1506.3	1302.0	1179.7	1074.1	1076.9	1082.5
42.5°	7000.6	5458.2	1614.7	1613.3	1710.6	1528.5	1300.6	1111.7	1019.9	1082.5	1139.4
45°	7525.9	5504.1	1511.8	1636.9	1762.0	1542.4	1278.4	1100.5	1026.9	1213.1	1321.5
47.5°	8130.3	5477.7	1454.9	1645.2	1774.5	1542.4	1253.4	1126.9	1075.5	1404.8	1531.3
50°	8793.2	5401.2	1399.3	1628.6	1770.3	1539.6	1277.0	1153.3	1093.6	1438.2	1525.7
52.5°	9572.7	5337.3	1340.9	1592.4	1741.1	1524.4	1304.8	1142.2	1036.6	1307.6	1368.7
55°	10462.0	5355.4	1275.6	1541.0	1695.3	1495.2	1295.1	1097.8	976.9	1151.9	1189.5
57.5°	11598.7	5570.8	1197.8	1475.7	1632.7	1446.5	1260.3	1076.9	958.8	1045.0	1067.2
60°	12867.4	5945.9	1100.5	1410.4	1554.9	1368.7	1233.9	1086.6	967.1	1036.6	1047.7
62.5°	13798.4	6164.1	1017.2	1314.5	1449.3	1282.6	1200.6	1099.1	989.4	1065.8	1063.0
65°	14051.3	5805.6	912.9	1174.2	1306.2	1192.2	1158.9	1113.0	999.1	1089.4	1076.9
66°	13696.9	5419.3	867.1	1108.9	1233.9	1147.8	1138.1	1111.7	994.9	1092.2	1071.4
67.5°	12836.8	4627.2	787.9	1013.0	1118.6	1081.1	1104.7	1099.1	983.8	1089.4	1060.2
70°	10469.0	3157.1	673.9	843.5	931.0	951.9	1040.8	1054.7	947.7	1040.8	976.9
72.5°	7314.7	1923.2	596.1	654.5	753.1	811.5	953.2	993.5	899.0	908.8	847.6
75°	3535.0	1021.3	540.5	507.2	585.0	678.1	847.6	910.2	822.6	760.1	737.9
77.5°	1101.9	623.9	458.6	408.5	458.6	547.5	708.7	797.6	732.3	636.4	628.1
80°	592.0	458.6	352.9	327.9	362.7	429.4	557.2	665.6	629.5	571.1	510.0
82.5°	390.5	297.4	261.2	254.3	276.5	327.9	414.1	551.7	551.7	489.1	355.7
85°	201.5	182.0	179.3	179.3	193.1	218.2	282.1	425.2	453.0	258.5	214.0
87.5°	100.0	104.2	97.3	101.4	108.4	107.0	134.8	214.0	255.7	157.0	130.6
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)