

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: P193216

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193216
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-08-LED-E1-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31082.1 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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



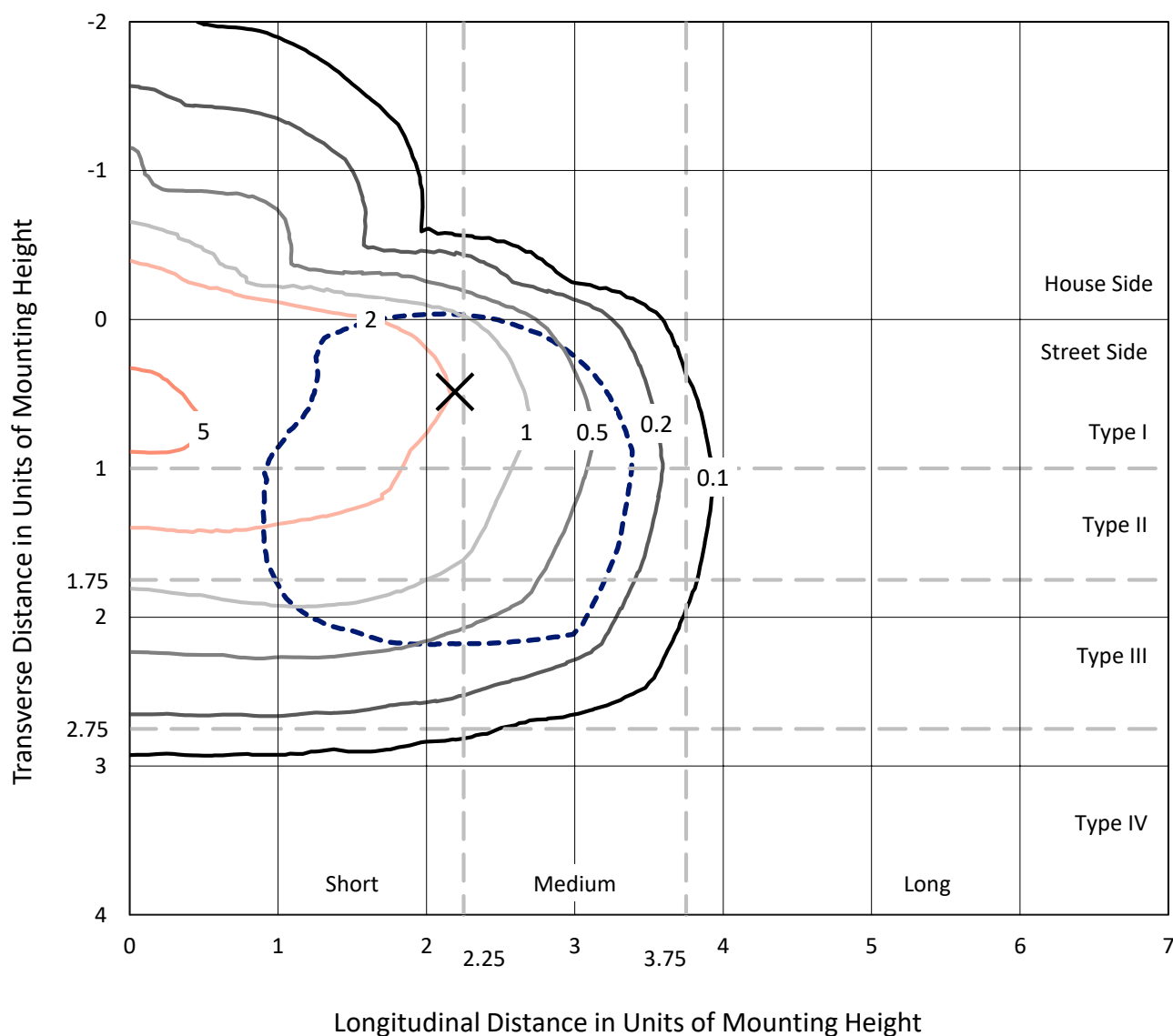
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

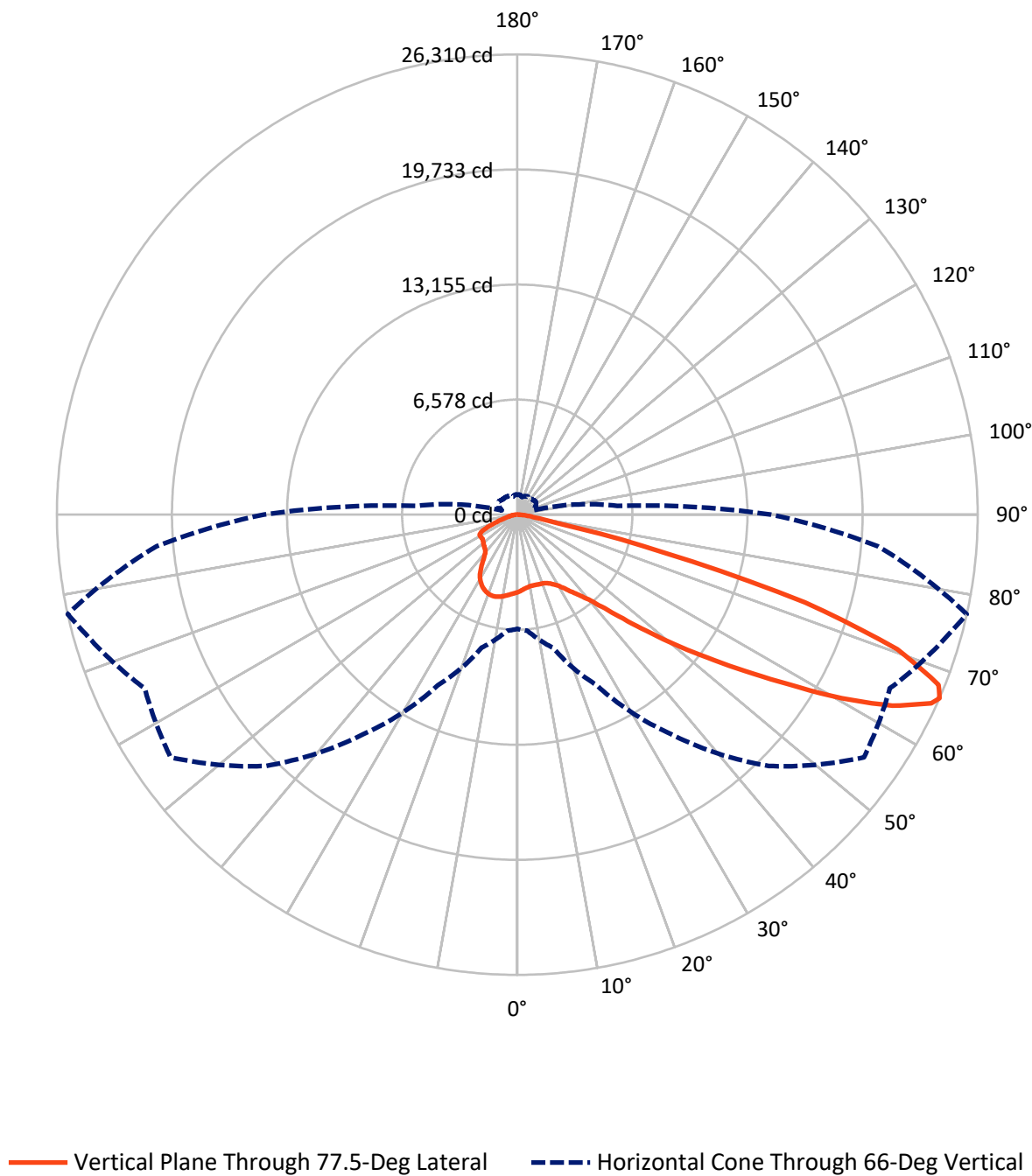


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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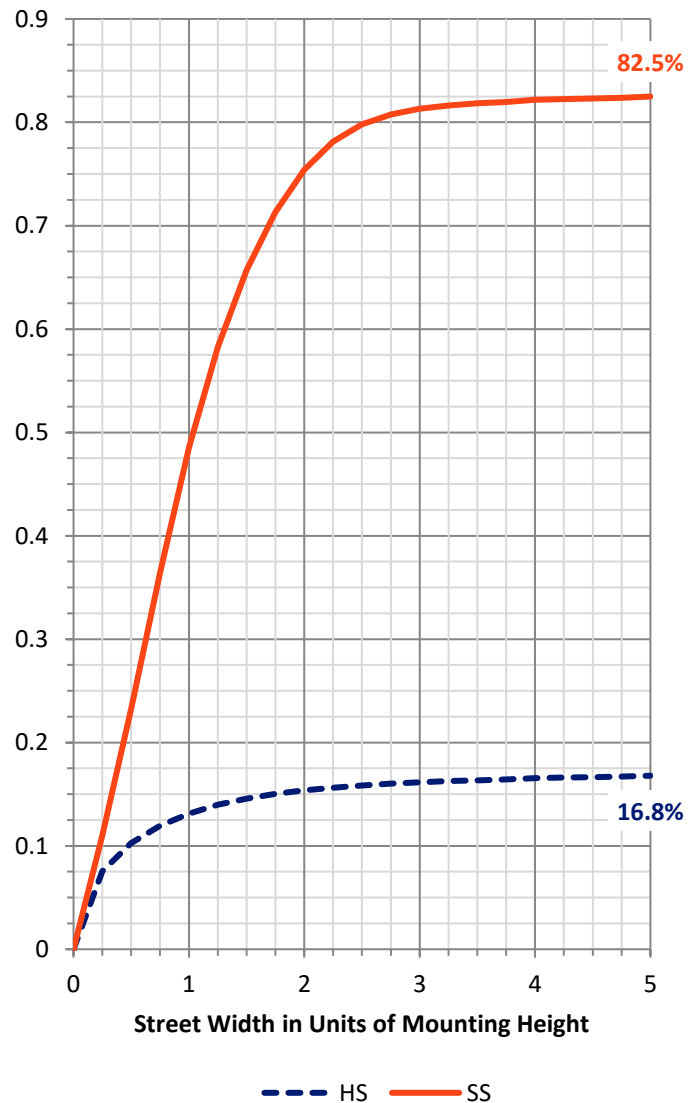
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5310.2	0.0	5310.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	25771.9	0.0	25771.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	31082.1	0.0	31082.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.7	1.3
10°-20°	1116.4	3.6
20°-30°	1905.3	6.1
30°-40°	3050.1	9.8
40°-50°	4712.1	15.2
50°-60°	6683.4	21.5
60°-70°	8940.5	28.8
70°-80°	3882.7	12.5
80°-90°	395.9	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°	31082.1	100.0
0°-180°	31082.1	100.0

Coefficient of Utilization



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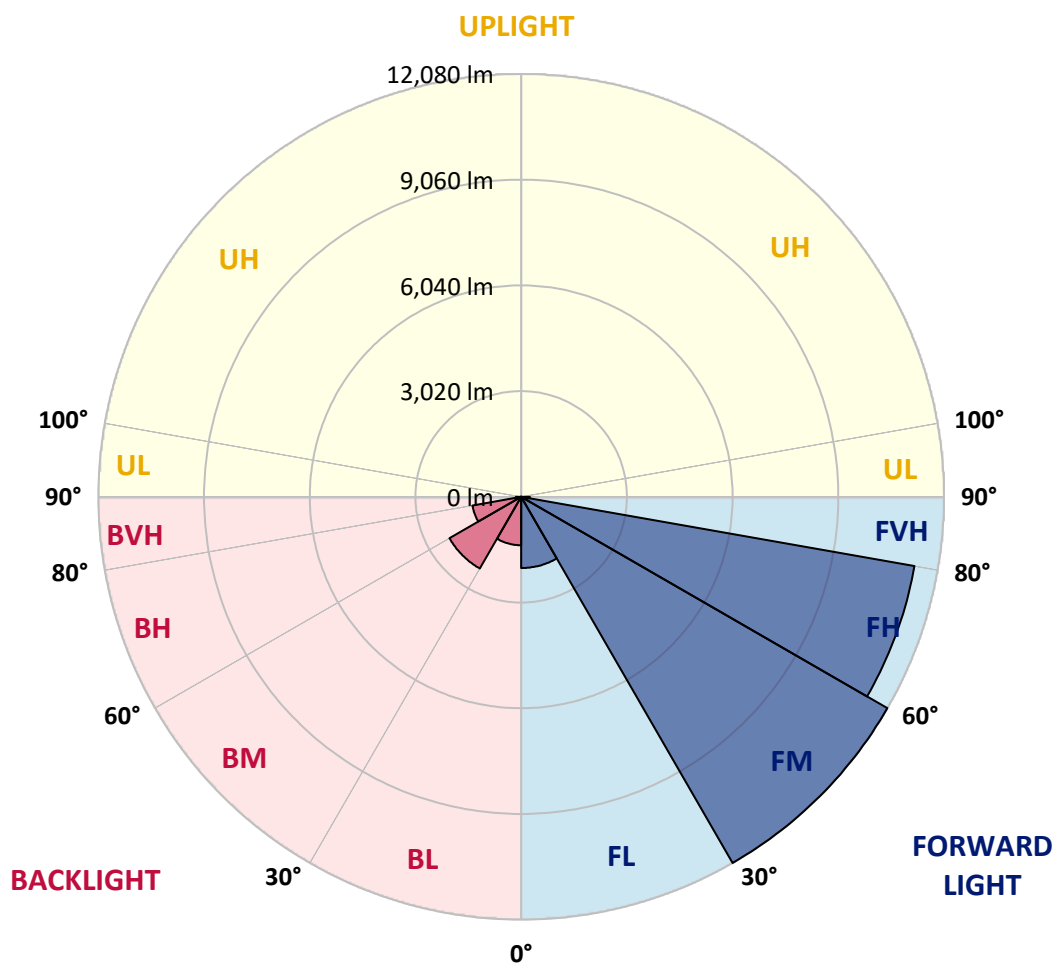
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2034.5	6.5			
FM	(30°-60°)	12080.1	38.9			
FH	(60°-80°)	11409.0	36.7			G4/12000
FVH	(80°-90°)	248.3	0.8			G3/500
BL	(0°-30°)	1383.0	4.4	B3/2500		
BM	(30°-60°)	2365.4	7.6	B2/2500		
BH	(60°-80°)	1414.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	147.6	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°	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4
2.5°	3918.2	3944.7	3966.7	3987.3	4028.4	4096.0	4173.8	4237.0	4328.0	4345.7	4394.1
5°	3558.5	3558.5	3576.0	3606.8	3662.7	3764.1	3869.9	4010.8	4209.1	4256.0	4385.3
7.5°	3383.6	3385.2	3395.4	3421.9	3470.3	3562.8	3678.9	3844.9	4113.6	4191.4	4411.7
10°	3448.3	3433.6	3411.6	3398.4	3405.7	3460.0	3570.1	3755.2	4054.8	4154.7	4470.5
12.5°	3809.6	3781.7	3705.3	3604.0	3507.0	3467.5	3532.1	3712.6	4029.9	4146.0	4548.4
15°	4400.0	4388.2	4245.9	4035.7	3800.8	3604.0	3559.8	3696.5	4032.9	4156.2	4640.8
17.5°	5140.1	5124.0	4936.0	4630.5	4247.2	3864.0	3658.3	3709.7	4043.1	4173.8	4730.4
20°	5887.7	5837.7	5635.0	5270.8	4778.9	4217.9	3821.4	3743.6	4056.4	4193.0	4824.5
22.5°	6445.7	6404.7	6222.6	5868.6	5301.7	4627.5	4040.2	3802.2	4098.9	4248.6	4940.3
25°	6936.3	6939.2	6758.6	6416.4	5830.4	5062.3	4322.2	3959.3	4207.6	4363.3	5099.0
27.5°	7542.8	7507.5	7338.6	6999.3	6353.2	5501.4	4662.8	4175.3	4369.2	4526.3	5307.6
30°	8268.3	8243.3	8048.0	7663.2	6933.4	5972.8	5052.0	4426.4	4577.6	4740.6	5580.8
32.5°	9121.6	9109.8	8907.2	8412.2	7603.1	6528.0	5508.8	4758.3	4889.1	5057.9	5972.8
35°	10123.2	10124.6	9885.2	9290.5	8335.8	7174.2	6027.2	5185.7	5267.9	5444.2	6439.8
37.5°	10739.9	10814.9	10725.3	10118.7	9165.6	7896.7	6699.8	5752.6	5699.7	5877.4	6940.7
40°	10872.2	10963.2	11246.6	10938.3	10093.8	8692.7	7296.2	6297.3	6231.4	6448.7	7585.5
42.5°	10687.0	10813.4	11412.5	11630.0	11079.2	9673.9	8098.0	7106.7	7022.9	7315.1	8387.3
45°	10577.0	10671.0	11364.2	11989.8	11934.0	10782.6	9118.7	8122.9	8092.1	8475.4	9312.5
47.5°	10386.0	10471.2	11138.0	12073.4	12436.2	11798.9	10344.8	9365.3	9425.6	9927.9	10356.6
50°	10488.9	10524.1	10885.4	11860.5	12581.6	12543.4	11715.1	10804.6	11010.2	11637.3	11538.9
52.5°	10474.1	10565.3	10856.0	11511.0	12600.8	13003.2	13064.7	12409.7	12843.0	13562.7	12850.4
55°	8468.0	8635.5	10510.8	11422.8	12668.3	13453.9	14266.1	14101.6	14909.4	15748.0	14330.8
57.5°	8086.2	8191.9	9231.8	11607.9	13026.7	14314.6	15602.6	15963.9	17315.0	18288.7	16134.2
60°	8011.3	8142.0	9218.5	11834.1	13753.5	15717.2	17583.7	18218.2	20241.9	21308.2	18225.5
62.5°	7777.8	7918.8	9131.9	11804.7	14786.0	17657.2	20120.0	20614.9	23017.6	24054.4	19974.7
65°	7037.6	7169.8	8425.4	11330.4	15482.1	19728.0	23121.9	22812.0	25208.8	25988.6	20847.0
66°	6531.0	6660.1	7868.9	10772.3	15320.6	20315.3	24185.2	23492.0	25699.3	26310.2	20676.7
67.5°	5604.2	5705.5	6787.9	9522.5	14461.4	20479.9	25079.6	24003.0	25750.7	25966.5	19702.9
70°	3540.9	3570.1	4411.7	6573.5	10947.0	17761.4	23718.1	22734.1	23627.1	23042.6	16517.5
72.5°	1536.1	1526.0	2117.8	3344.0	6197.5	11917.8	19186.0	18758.6	18533.9	17200.4	11562.4
75°	854.7	866.5	1100.0	1552.3	2518.7	5853.9	12550.8	12010.4	10140.8	8653.2	5243.0
77.5°	685.8	702.0	912.0	1101.5	1130.9	2041.4	5873.0	4778.9	2877.1	2308.6	1456.9
80°	541.9	571.3	796.0	857.6	762.2	841.6	1897.4	1517.1	1138.2	1044.2	754.9
82.5°	428.9	449.4	682.9	649.1	533.0	566.8	909.0	885.5	740.2	674.1	436.2
85°	308.4	346.6	561.0	489.1	349.5	381.9	603.5	578.6	424.5	346.6	192.4
87.5°	126.3	164.4	396.5	324.6	195.3	177.6	301.1	283.4	201.1	146.9	95.5
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°	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4	4429.4
2.5°	4424.9	4460.2	4505.8	4533.6	4548.4	4558.7	4574.6	4573.3	4577.6	4579.2	4585.1
5°	4454.3	4513.1	4579.2	4596.7	4596.7	4580.5	4564.5	4538.0	4527.7	4524.8	4527.7
7.5°	4530.7	4595.3	4652.6	4632.0	4587.9	4523.4	4439.6	4366.2	4326.5	4313.3	4310.4
10°	4627.5	4705.5	4729.0	4651.0	4521.9	4366.2	4200.3	4079.8	4010.8	3991.7	3985.8
12.5°	4745.1	4818.6	4786.2	4621.7	4382.4	4131.2	3902.0	3709.7	3565.7	3520.3	3517.4
15°	4874.4	4931.6	4818.6	4530.7	4173.8	3803.8	3395.4	3063.5	2884.3	2827.1	2822.7
17.5°	4994.8	5024.2	4799.4	4372.1	3866.9	3267.6	2725.8	2470.3	2408.5	2423.3	2426.1
20°	5097.6	5097.6	4734.9	4144.4	3383.6	2561.2	2219.0	2214.6	2258.7	2302.7	2311.6
22.5°	5210.7	5143.1	4621.7	3822.8	2699.4	2095.7	2045.8	2086.9	2136.8	2185.3	2192.7
25°	5350.2	5179.8	4464.6	3335.2	2122.2	1903.3	1922.4	1956.2	1981.2	2012.0	2016.4
27.5°	5505.8	5226.9	4257.5	2664.1	1841.7	1782.9	1797.6	1809.4	1806.4	1818.2	1821.2
30°	5692.3	5281.1	3974.1	2082.5	1725.6	1680.1	1653.6	1643.4	1643.4	1662.5	1669.8
32.5°	5942.1	5361.9	3567.4	1784.3	1669.8	1606.6	1521.4	1483.3	1498.0	1562.6	1577.2
35°	6216.7	5448.5	3016.5	1683.0	1658.1	1572.9	1440.7	1370.2	1371.6	1432.0	1451.0
37.5°	6516.2	5558.7	2412.9	1663.9	1684.4	1574.3	1398.1	1301.2	1261.5	1261.5	1268.9
40°	6899.5	5671.7	1953.2	1677.1	1740.3	1592.0	1376.1	1246.8	1135.2	1138.2	1144.1
42.5°	7398.9	5768.7	1706.5	1705.1	1807.9	1615.5	1374.6	1174.9	1078.0	1144.1	1204.2
45°	7954.1	5817.2	1597.8	1730.0	1862.3	1630.1	1351.1	1163.2	1085.3	1282.0	1396.7
47.5°	8592.9	5789.3	1537.6	1738.9	1875.4	1630.1	1324.7	1191.0	1136.8	1484.8	1618.4
50°	9293.4	5708.5	1479.0	1721.3	1871.1	1627.2	1349.7	1218.9	1155.9	1520.1	1612.5
52.5°	10117.3	5640.9	1417.2	1683.0	1840.2	1611.0	1379.1	1207.2	1095.6	1382.0	1446.6
55°	11057.2	5660.0	1348.1	1628.7	1791.8	1580.2	1368.8	1160.3	1032.4	1217.4	1257.1
57.5°	12258.6	5887.7	1266.0	1559.6	1725.6	1528.9	1332.0	1138.2	1013.4	1104.4	1127.9
60°	13599.4	6284.1	1163.2	1490.7	1643.4	1446.6	1304.1	1148.5	1022.1	1095.6	1107.4
62.5°	14583.4	6514.8	1075.0	1389.3	1531.9	1355.6	1268.9	1161.7	1045.6	1126.5	1123.5
65°	14850.6	6135.9	964.9	1240.9	1380.5	1260.1	1224.8	1176.4	1055.9	1151.4	1138.2
66°	14476.1	5727.6	916.4	1172.0	1304.1	1213.1	1202.8	1174.9	1051.5	1154.4	1132.3
67.5°	13567.0	4890.5	832.7	1070.6	1182.1	1142.7	1167.6	1161.7	1039.8	1151.4	1120.6
70°	11064.5	3336.7	712.3	891.4	984.0	1006.0	1100.0	1114.7	1001.6	1100.0	1032.4
72.5°	7730.7	2032.5	630.0	691.7	796.0	857.6	1007.5	1050.1	950.2	960.5	895.8
75°	3736.1	1079.5	571.3	536.0	618.3	716.6	895.8	961.9	869.3	803.4	779.8
77.5°	1164.6	659.4	484.7	431.8	484.7	578.6	749.0	842.9	774.0	672.6	663.9
80°	625.6	484.7	373.0	346.6	383.3	453.8	588.9	703.5	665.3	603.5	538.9
82.5°	412.7	314.2	276.1	268.8	292.3	346.6	437.7	583.0	583.0	516.9	376.0
85°	212.9	192.4	189.4	189.4	204.1	230.5	298.2	449.4	478.8	273.1	226.1
87.5°	105.8	110.2	102.8	107.2	114.5	113.1	142.5	226.1	270.2	166.0	138.1
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)