

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: P194530

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6512 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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



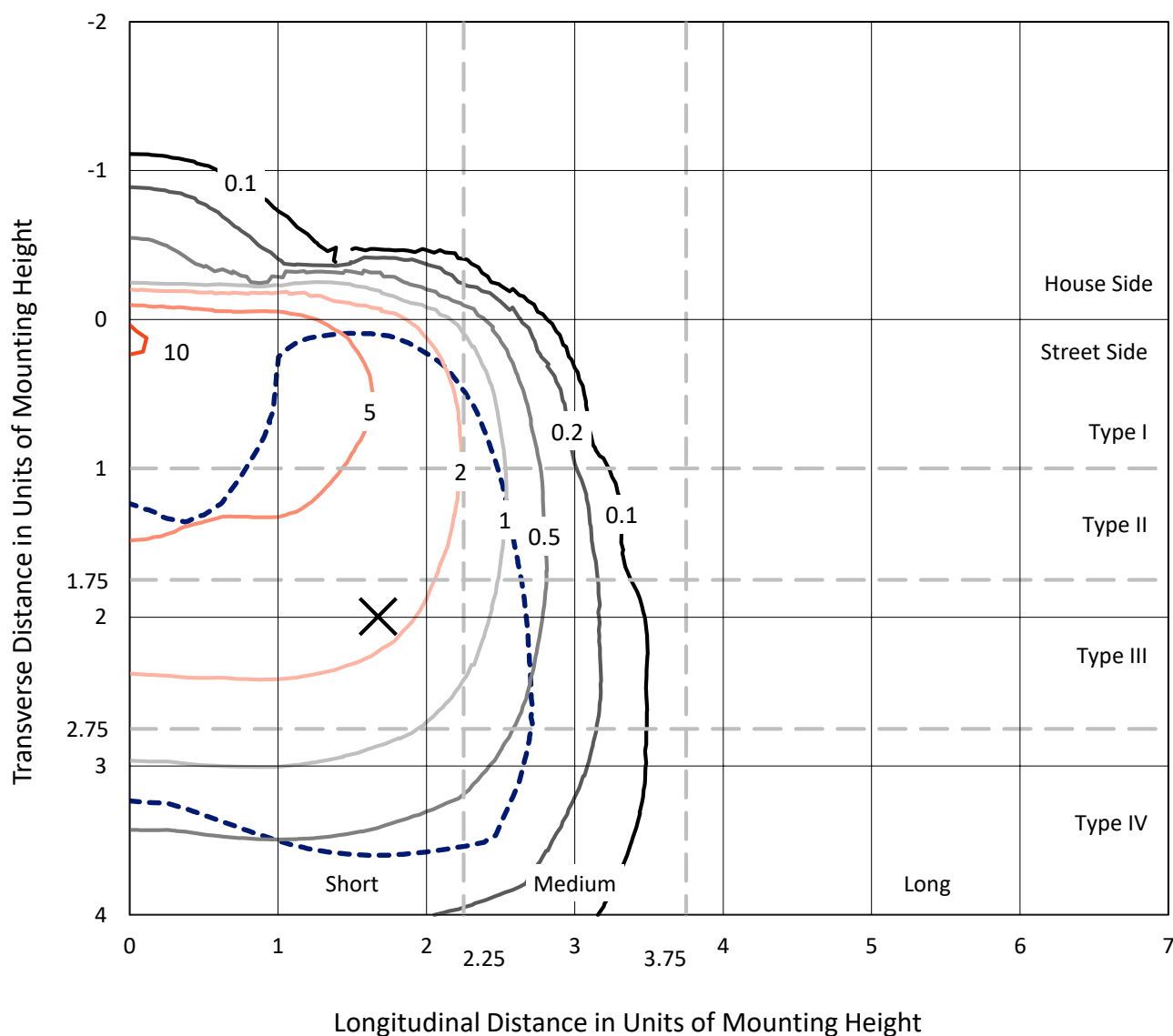
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

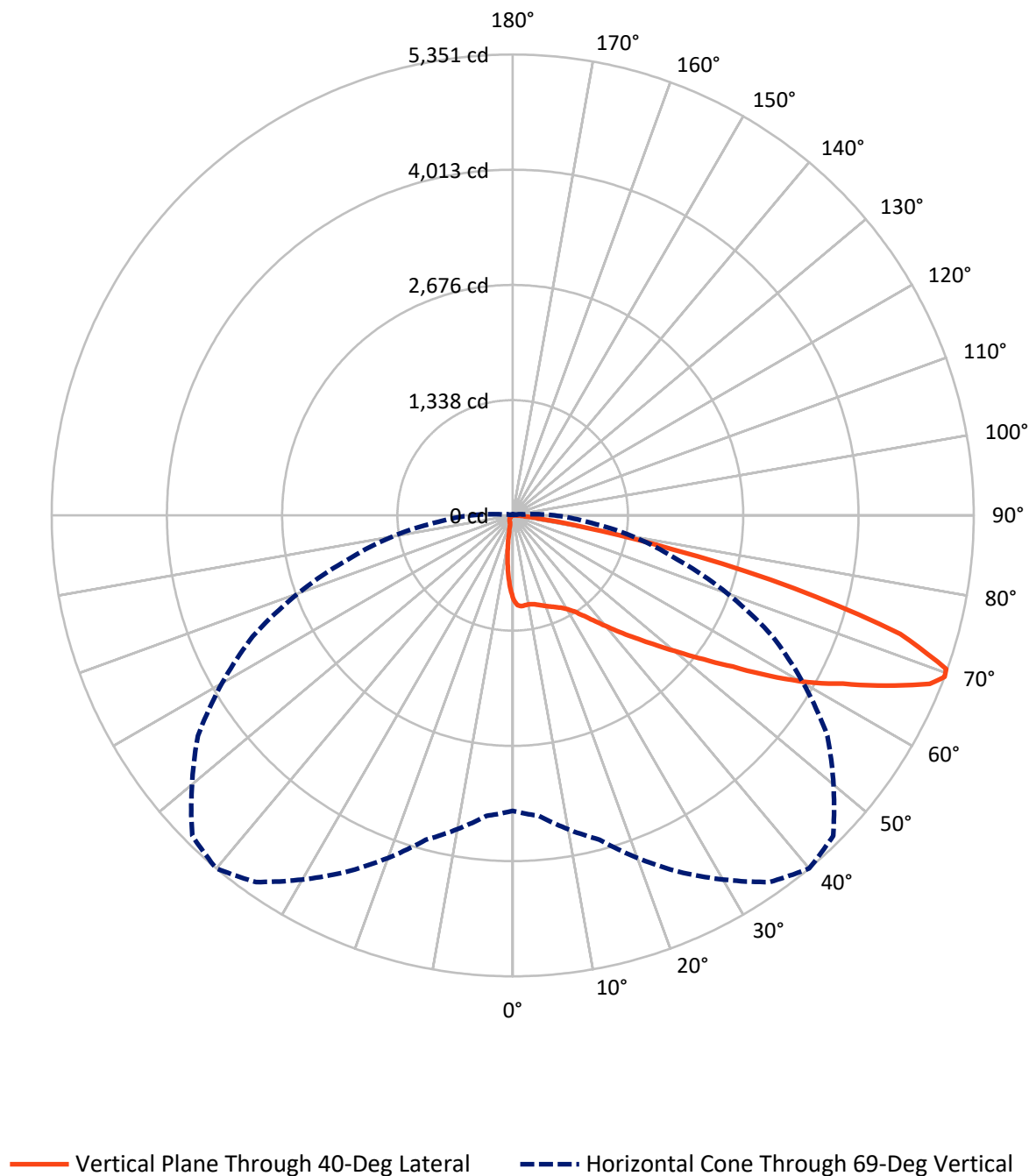


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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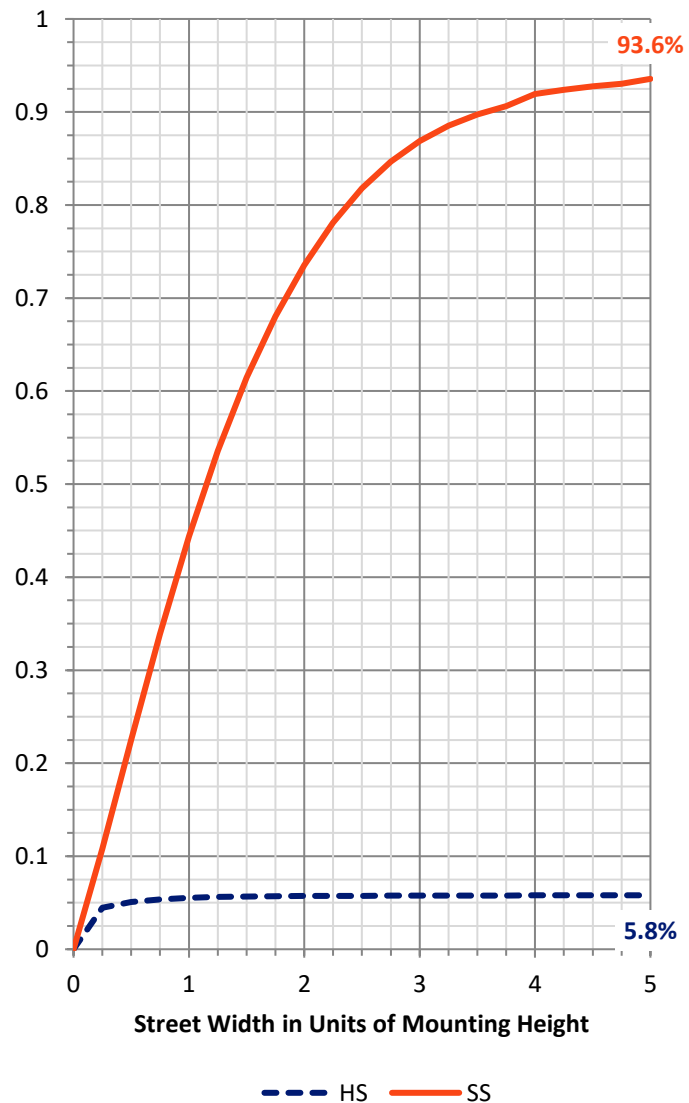
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.0	0.0	381.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	6131.0	0.0	6131.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	6512.0	0.0	6512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.2
10°-20°	194.0	3.0
20°-30°	326.8	5.0
30°-40°	534.9	8.2
40°-50°	926.2	14.2
50°-60°	1458.8	22.4
60°-70°	1905.1	29.3
70°-80°	981.2	15.1
80°-90°	106.1	1.6
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°	6512.0	100.0
0°-180°	6512.0	100.0

Coefficient of Utilization



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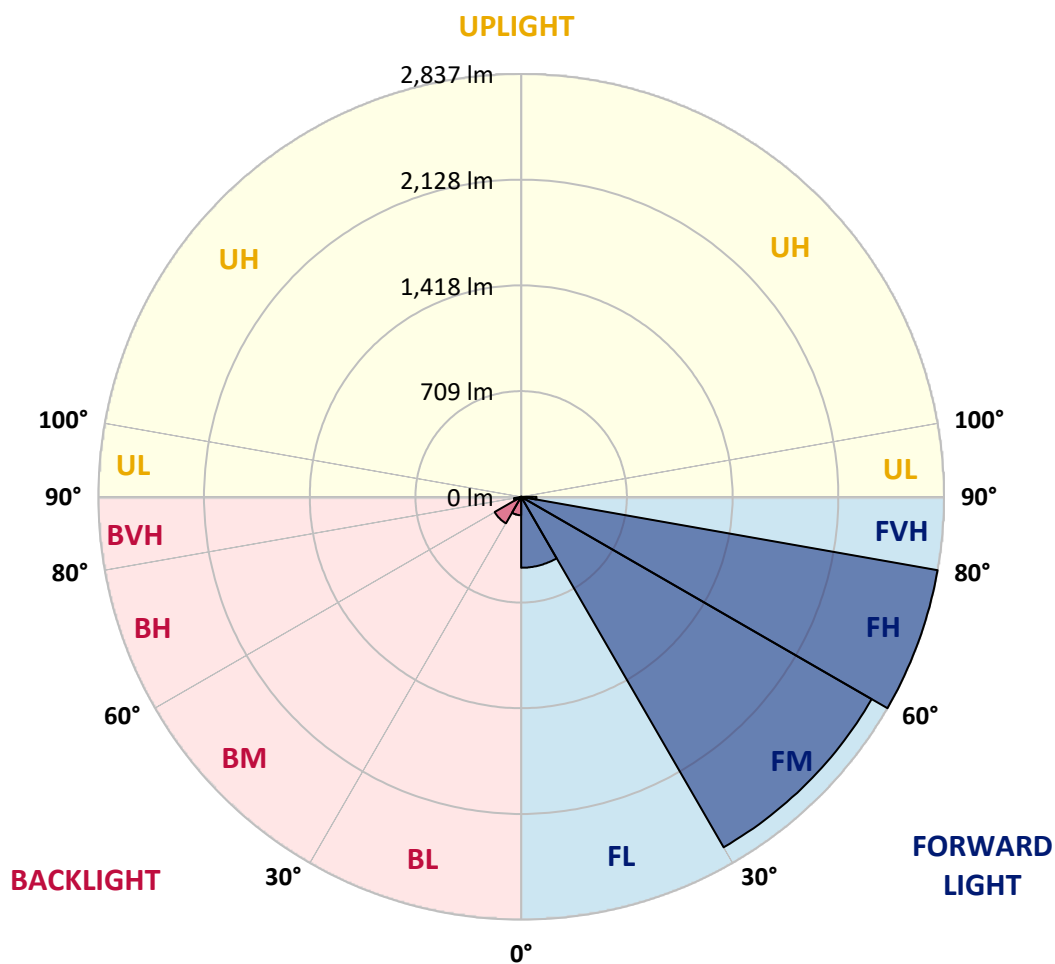
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.2	7.3			
FM	(30°-60°)	2715.1	41.7			
FH	(60°-80°)	2836.9	43.6			G2/5000
FVH	(80°-90°)	102.8	1.6			G2/225
BL	(0°-30°)	123.4	1.9	B1/500		
BM	(30°-60°)	204.8	3.1	B0/220		
BH	(60°-80°)	49.5	0.8	B0/110		G0/110
BVH	(80°-90°)	3.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9
2.5°	1068.3	1062.5	1059.0	1054.3	1048.5	1043.5	1041.5	1027.2	1013.6	995.0	973.7
5°	1088.0	1086.1	1079.9	1073.7	1066.7	1059.0	1054.7	1037.7	1018.3	991.1	953.9
7.5°	1090.0	1087.7	1079.9	1071.4	1061.7	1052.4	1045.0	1028.0	1010.1	982.6	937.3
10°	1086.9	1084.2	1078.4	1069.1	1057.0	1048.1	1040.8	1024.5	1009.4	984.6	934.2
12.5°	1083.4	1080.7	1078.0	1073.3	1062.9	1056.7	1050.5	1034.9	1021.4	1000.4	945.4
15°	1086.9	1085.3	1088.4	1086.5	1080.7	1075.3	1069.1	1055.1	1042.7	1025.3	965.9
17.5°	1101.6	1101.6	1111.3	1112.5	1107.0	1099.3	1090.4	1076.4	1066.0	1051.2	990.4
20°	1136.1	1135.0	1147.4	1149.7	1136.5	1124.5	1111.3	1094.3	1086.1	1076.8	1014.4
22.5°	1195.4	1190.0	1197.4	1195.0	1169.1	1150.5	1134.2	1113.2	1109.0	1104.7	1041.1
25°	1272.6	1269.5	1274.5	1251.6	1205.9	1180.7	1161.3	1137.7	1137.7	1141.9	1071.4
27.5°	1384.6	1373.0	1355.9	1315.6	1247.0	1214.8	1193.9	1168.7	1175.3	1191.2	1111.3
30°	1499.3	1486.5	1447.4	1385.4	1297.0	1263.3	1238.8	1212.5	1228.0	1257.1	1164.8
32.5°	1612.5	1598.2	1542.7	1464.4	1368.7	1335.0	1311.3	1282.2	1308.2	1357.1	1243.1
35°	1722.2	1709.4	1645.4	1553.2	1464.0	1436.1	1414.4	1389.2	1422.6	1490.8	1353.6
37.5°	1845.5	1831.5	1753.6	1653.6	1579.9	1559.8	1543.9	1518.7	1576.8	1676.8	1507.5
40°	1997.0	1973.4	1868.3	1768.7	1714.1	1704.4	1693.5	1690.0	1780.3	1918.7	1712.5
42.5°	2170.7	2131.9	1988.5	1890.0	1861.4	1868.3	1865.6	1881.1	2035.0	2219.5	1962.1
45°	2344.3	2294.3	2122.2	2019.5	2023.4	2047.8	2062.9	2124.9	2354.0	2564.5	2230.8
47.5°	2491.6	2442.4	2250.5	2159.4	2205.9	2254.0	2295.1	2412.5	2681.9	2904.0	2439.7
50°	2617.6	2571.1	2386.6	2313.3	2418.0	2495.5	2562.2	2736.2	3034.7	3162.6	2586.2
52.5°	2720.7	2689.7	2527.7	2489.7	2660.2	2773.8	2871.5	3080.0	3347.1	3372.7	2700.2
55°	2821.1	2799.0	2679.2	2699.4	2944.7	3099.4	3223.1	3444.8	3616.1	3547.9	2809.5
57.5°	2936.6	2916.5	2852.1	2965.3	3318.8	3513.4	3648.3	3768.1	3852.9	3727.0	2912.6
60°	3054.4	3042.8	3044.4	3260.7	3748.3	3935.1	4009.5	4040.6	4085.5	3895.6	2918.4
62.5°	3166.9	3189.0	3264.1	3589.4	4159.6	4303.0	4340.6	4371.2	4318.5	3922.3	2696.3
65°	3357.2	3393.2	3572.7	4029.3	4611.9	4765.4	4804.2	4699.1	4355.3	3576.6	2193.2
67.5°	3450.2	3516.1	3836.3	4439.4	5050.7	5221.2	5206.9	4720.4	3908.4	2727.3	1407.4
69°	3430.8	3501.0	3897.1	4565.0	5196.4	5351.1	5260.0	4459.6	3329.7	1975.7	864.0
70°	3354.1	3425.0	3865.7	4560.3	5215.0	5337.5	5161.5	4137.5	2815.3	1444.7	540.3
72.5°	2800.9	2862.2	3432.0	4122.0	4804.2	4704.5	4318.1	2866.5	1371.8	393.4	121.7
75°	1724.1	1758.2	2462.6	3105.2	3628.5	3372.7	2876.9	1426.1	408.9	111.2	67.4
77.5°	910.9	926.4	1348.1	1830.3	2300.1	1903.2	1474.5	556.2	188.4	69.8	48.8
80°	538.4	550.0	726.0	836.9	995.4	831.4	589.6	341.5	134.9	43.8	43.4
82.5°	308.2	315.5	526.4	465.1	392.3	334.9	293.4	323.7	81.0	29.5	45.0
85°	113.2	114.7	296.1	353.9	233.3	138.8	145.7	268.2	21.7	18.6	35.3
87.5°	52.7	51.6	152.3	216.7	136.4	88.0	113.6	58.9	8.5	12.0	9.7
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°	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9	972.9
2.5°	961.3	947.0	921.0	894.2	867.1	846.2	825.6	809.4	803.9	793.8	794.6
5°	931.8	905.5	851.2	796.2	738.8	691.5	646.9	610.9	593.4	575.6	575.6
7.5°	906.3	867.9	783.0	693.5	600.8	522.9	452.7	400.0	371.0	347.7	347.3
10°	896.6	844.6	726.0	597.7	468.6	362.4	279.1	225.6	198.1	180.2	179.5
12.5°	900.8	836.5	682.2	509.3	347.3	233.0	161.6	127.1	115.5	110.1	110.1
15°	913.2	834.2	638.4	422.9	245.4	145.7	107.4	98.1	97.3	97.3	97.3
17.5°	928.3	834.9	593.4	338.8	167.1	104.3	92.6	91.5	92.3	92.3	92.3
20°	943.9	835.3	545.0	260.9	117.8	90.7	87.2	86.8	87.6	87.6	88.0
22.5°	962.8	837.3	496.5	195.0	97.3	85.7	83.0	83.0	83.3	83.3	83.0
25°	984.6	841.1	446.2	144.6	88.8	82.2	79.8	79.5	79.8	79.5	79.1
27.5°	1011.7	846.6	389.9	113.2	84.9	78.7	76.7	76.7	76.4	76.0	75.6
30°	1045.8	852.8	326.8	96.1	81.0	75.6	73.6	73.3	72.9	72.1	72.1
32.5°	1097.7	866.3	264.4	87.2	76.7	71.3	69.8	69.8	69.0	68.2	67.8
35°	1177.6	893.1	208.5	81.8	72.1	66.7	64.7	64.7	64.0	63.6	63.2
37.5°	1288.1	933.8	162.0	76.7	67.4	61.6	59.7	59.3	58.5	57.8	57.4
40°	1435.0	984.2	127.5	72.1	62.8	56.6	55.0	54.3	52.7	51.6	51.6
42.5°	1619.5	1041.5	103.5	67.1	57.4	51.9	50.8	49.6	46.9	45.7	45.4
45°	1812.5	1093.1	87.6	61.2	51.9	47.3	46.5	44.6	41.1	39.9	39.9
47.5°	1951.7	1105.1	77.1	55.8	46.9	42.3	41.9	38.4	35.3	34.5	34.1
50°	2038.5	1081.5	68.6	50.4	42.3	37.6	36.4	32.2	30.2	29.5	29.1
52.5°	2097.0	1039.2	61.6	45.7	38.0	33.3	30.6	27.5	26.0	25.2	25.2
55°	2143.9	979.5	54.7	41.5	34.5	29.8	26.0	23.6	22.1	21.3	21.3
57.5°	2157.1	898.5	47.7	38.0	31.0	26.4	22.1	20.5	18.6	18.2	18.2
60°	2061.4	752.4	42.3	33.7	27.9	22.9	19.4	17.4	15.5	15.1	14.7
62.5°	1809.0	582.2	37.2	29.8	24.4	19.8	16.7	14.3	12.8	12.8	12.8
65°	1379.9	390.3	32.6	26.0	21.3	16.7	14.3	11.6	10.9	10.9	11.2
67.5°	826.0	212.4	27.9	22.1	18.2	14.0	12.0	10.1	9.7	10.1	10.1
69°	484.1	124.8	25.2	19.8	15.9	12.4	10.5	8.9	9.7	10.1	10.1
70°	298.9	84.1	23.3	17.8	14.3	11.2	9.7	8.5	9.3	9.7	9.7
72.5°	83.3	43.4	18.6	14.0	11.6	9.3	7.8	7.8	8.9	9.3	9.3
75°	54.3	32.2	14.3	10.5	8.9	7.4	6.6	7.4	8.5	8.9	8.9
77.5°	45.0	26.4	11.6	8.5	7.4	7.0	6.2	6.6	7.8	8.1	8.1
80°	41.1	18.6	9.3	7.8	6.6	6.2	5.8	5.4	7.0	7.4	7.4
82.5°	39.1	14.7	8.1	7.0	6.2	5.4	5.0	5.4	6.2	6.6	7.0
85°	24.4	9.7	7.4	6.6	5.4	5.0	5.0	5.0	5.8	6.2	6.2
87.5°	8.9	7.8	6.6	5.4	4.7	4.7	4.7	4.7	5.0	5.8	5.8
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)