

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: P194419

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4933 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

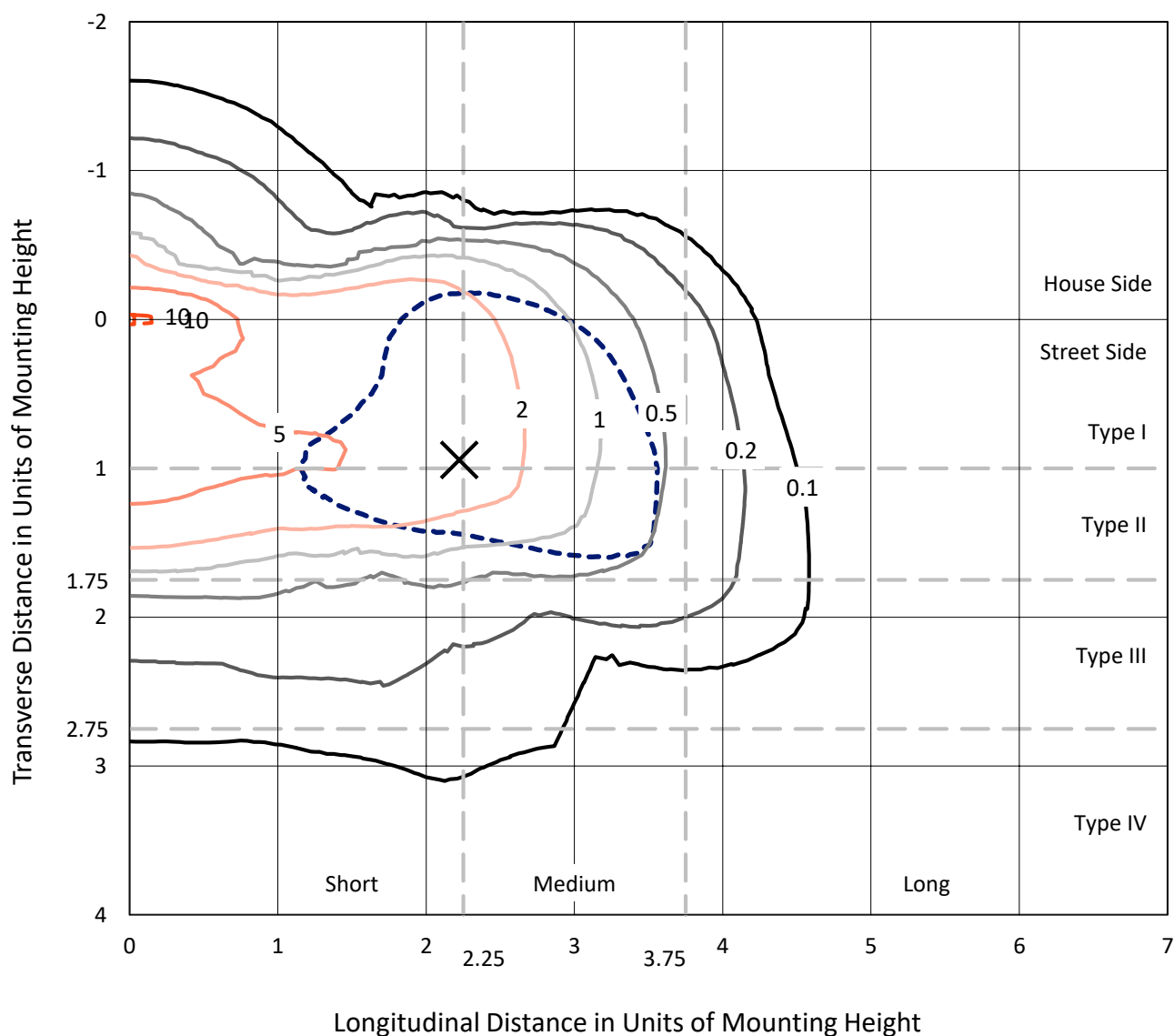


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

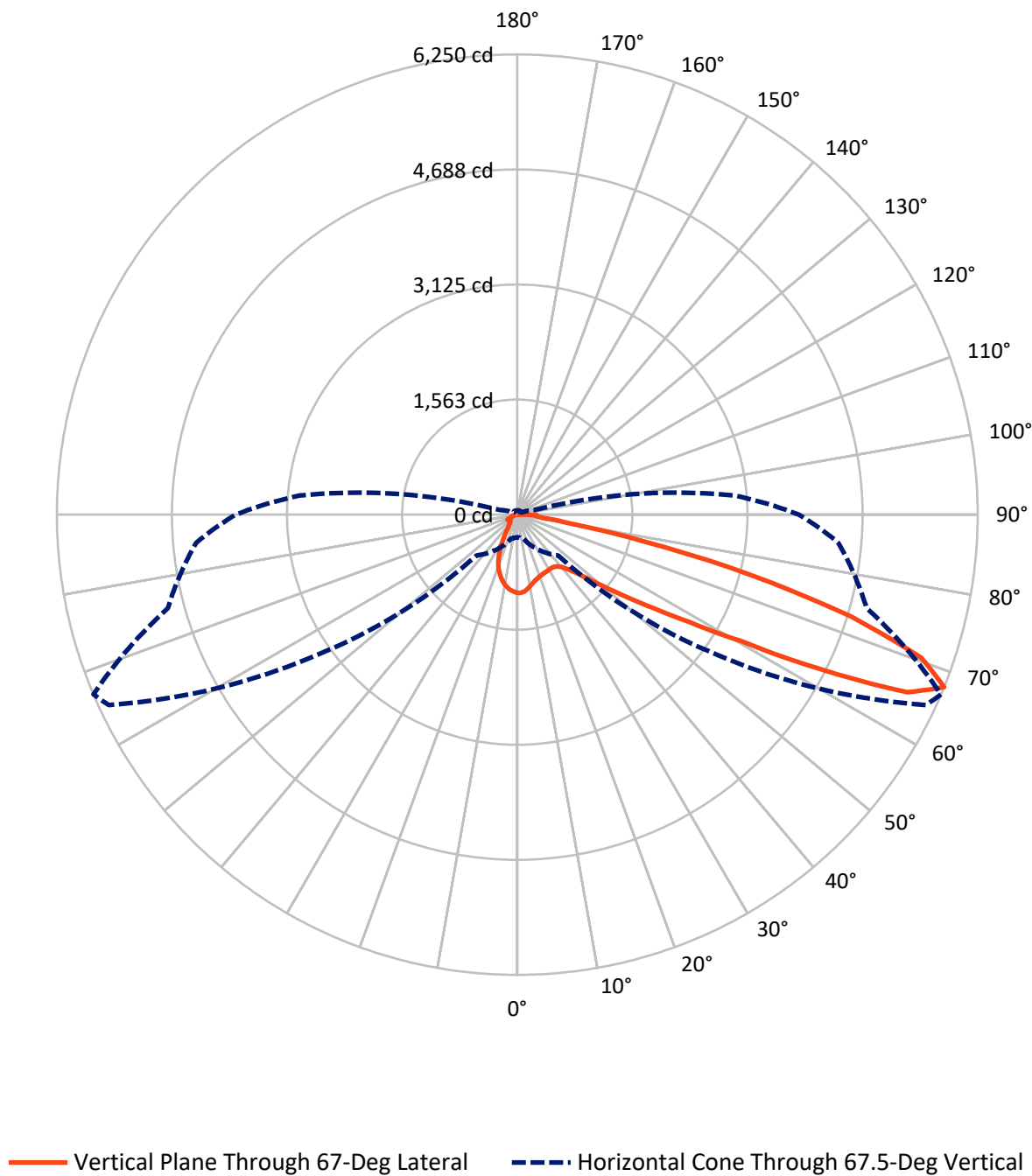


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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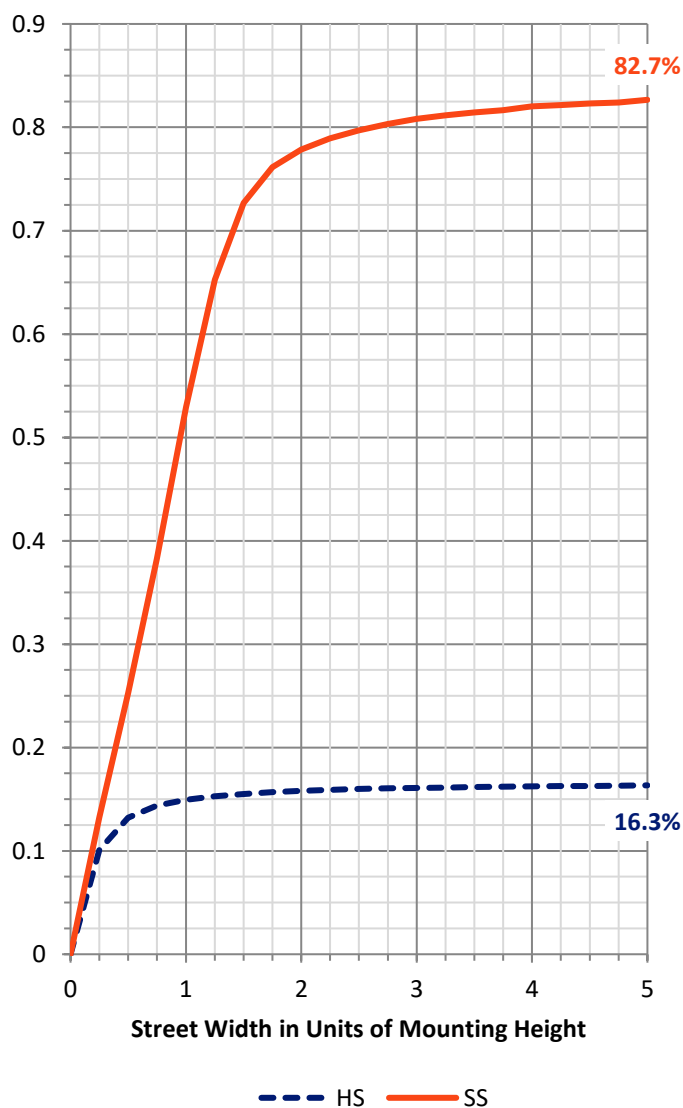
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.3	0.0	817.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4115.7	0.0	4115.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	4933.0	0.0	4933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	1.8
10°-20°	210.0	4.3
20°-30°	284.7	5.8
30°-40°	404.8	8.2
40°-50°	677.2	13.7
50°-60°	1071.3	21.7
60°-70°	1364.7	27.7
70°-80°	714.8	14.5
80°-90°	114.7	2.3
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°	4933.0	100.0
0°-180°	4933.0	100.0

Coefficient of Utilization



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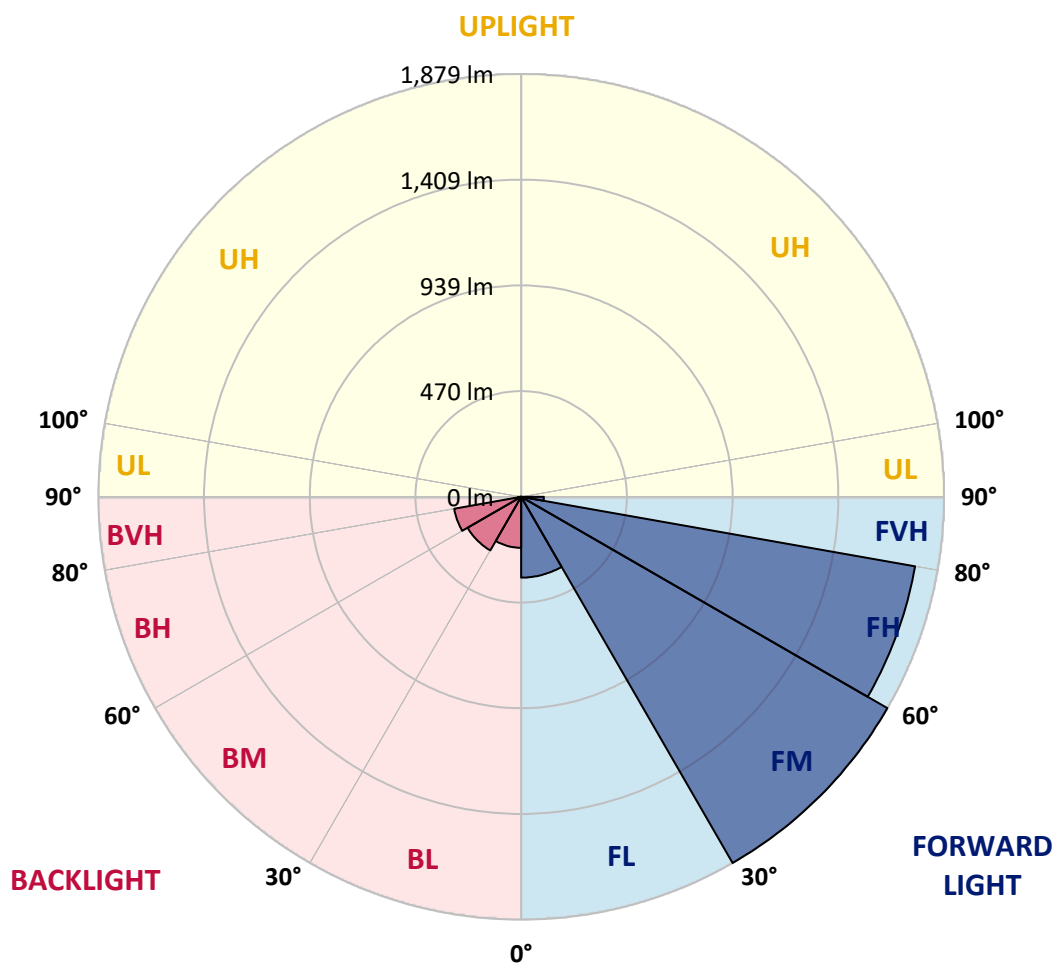
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.0	7.3			
FM	(30°-60°)	1878.6	38.1			
FH	(60°-80°)	1777.3	36.0			G1/1800
FVH	(80°-90°)	100.8	2.0			G2/225
BL	(0°-30°)	226.5	4.6	B1/500		
BM	(30°-60°)	274.7	5.6	B1/1000		
BH	(60°-80°)	302.3	6.1	B1/500		G1/500
BVH	(80°-90°)	13.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0
2.5°	1020.2	1022.0	1027.3	1030.7	1046.0	1052.6	1057.2	1061.8	1062.6	1064.8	1062.6
5°	913.2	916.9	926.8	938.0	967.7	991.1	1015.6	1041.2	1045.8	1062.3	1067.0
7.5°	830.3	829.3	837.6	850.9	881.3	913.7	956.8	1007.6	1017.6	1054.8	1072.8
10°	769.7	769.0	777.7	791.6	820.5	851.2	899.8	969.4	983.5	1042.9	1078.4
12.5°	724.9	725.2	733.9	749.3	778.7	809.6	859.0	932.4	950.4	1029.0	1084.2
15°	695.2	697.2	704.2	720.5	749.3	780.1	828.6	904.7	924.9	1018.1	1090.8
17.5°	685.3	688.4	690.9	702.8	727.4	758.3	805.7	884.3	905.7	1010.5	1096.6
20°	694.5	698.2	693.5	697.7	713.2	740.5	787.7	868.2	890.1	1002.0	1097.4
22.5°	734.2	737.6	724.0	712.0	711.1	727.6	772.8	855.6	878.2	995.7	1097.6
25°	804.0	806.2	783.3	755.6	728.6	723.0	762.4	846.8	870.9	990.1	1093.0
27.5°	889.6	891.3	865.0	824.2	769.9	733.9	758.7	841.7	866.7	985.2	1085.2
30°	993.7	1001.8	966.5	914.9	835.9	766.3	766.0	839.0	862.1	976.9	1069.9
32.5°	1100.3	1103.7	1079.4	1027.1	924.6	823.2	786.5	841.0	860.9	967.0	1050.4
35°	1208.3	1212.7	1196.9	1154.8	1046.0	906.6	826.4	852.4	868.5	963.6	1036.8
37.5°	1348.2	1354.0	1332.1	1283.5	1193.7	1019.8	892.8	881.1	891.6	973.3	1032.7
40°	1569.3	1566.6	1502.6	1430.1	1355.2	1164.5	987.7	929.8	935.8	1004.7	1045.3
42.5°	1826.7	1820.1	1709.9	1596.1	1532.8	1339.7	1113.2	1014.2	1013.0	1066.5	1089.8
45°	2032.0	2026.6	1927.4	1787.0	1736.4	1539.1	1275.4	1139.9	1130.9	1164.5	1172.0
47.5°	2143.2	2143.4	2086.2	1971.7	1970.4	1792.6	1483.9	1321.9	1306.3	1322.1	1314.1
50°	2104.2	2109.3	2103.3	2066.8	2184.0	2124.9	1756.1	1575.6	1544.2	1559.8	1528.9
52.5°	1915.9	1922.5	1958.5	2014.5	2273.8	2526.5	2156.0	1890.9	1854.4	1848.8	1814.5
55°	1582.2	1590.2	1663.7	1815.7	2199.1	2796.3	2787.1	2292.8	2234.6	2181.8	2167.2
57.5°	1090.6	1103.9	1222.2	1447.9	1957.5	2877.8	3538.5	2865.6	2747.4	2563.0	2566.4
60°	614.7	630.3	769.7	974.8	1470.0	2789.3	4110.2	3733.4	3483.8	3009.4	3034.7
62.5°	390.9	407.7	513.5	677.2	882.1	2312.5	4344.4	4939.7	4622.7	3559.7	3584.5
65°	316.5	323.8	373.7	559.0	640.5	1393.2	4166.6	5933.4	5815.2	4258.1	4142.3
67.5°	308.9	311.4	337.2	469.3	614.2	783.1	3323.5	6119.3	6250.4	4910.3	4374.6
70°	305.3	313.8	380.0	447.8	588.2	660.5	1997.2	5609.9	5816.9	5080.8	4065.4
72.5°	148.1	147.7	191.2	405.0	662.7	685.0	1026.1	4539.1	4746.8	4401.9	3340.7
75°	119.4	109.2	104.4	148.4	637.1	707.4	653.9	3123.3	3273.6	2951.3	2053.6
77.5°	113.4	101.2	92.7	92.9	269.3	750.2	553.9	1728.6	1772.4	1333.1	562.7
80°	93.9	82.7	76.6	86.4	130.4	714.5	598.9	782.3	717.9	327.4	187.3
82.5°	65.2	59.4	57.7	72.5	104.4	509.2	696.5	420.4	352.5	164.0	115.6
85°	41.6	35.5	39.4	52.8	81.3	235.0	717.4	327.7	260.5	104.1	65.2
87.5°	19.2	15.6	19.5	29.2	53.0	81.0	682.6	368.1	268.3	55.0	41.1
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°	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0	1064.0
2.5°	1064.5	1059.9	1056.3	1049.4	1041.9	1034.6	1028.0	1019.8	1017.3	1015.1	1018.5
5°	1067.9	1063.3	1049.9	1029.0	1005.9	984.2	962.6	944.1	932.7	926.3	930.0
7.5°	1073.0	1066.5	1038.7	1000.3	958.7	920.8	881.6	850.2	827.1	816.2	819.3
10°	1077.7	1065.0	1019.8	962.1	901.3	844.9	783.1	732.0	694.0	674.1	678.9
12.5°	1079.6	1059.4	993.2	914.4	831.0	748.3	657.3	580.9	526.4	506.5	502.3
15°	1081.6	1053.1	964.1	860.2	746.1	629.1	501.6	410.1	364.9	354.9	352.7
17.5°	1082.0	1042.1	931.0	801.3	646.6	487.3	343.0	284.9	285.1	301.2	303.1
20°	1076.9	1025.8	890.8	728.1	527.4	336.9	235.5	225.5	262.2	302.4	307.2
22.5°	1065.3	1004.2	845.3	642.7	390.9	221.9	182.2	193.2	240.6	289.7	295.3
25°	1050.4	977.9	791.6	543.7	258.8	158.6	152.8	166.1	198.3	231.1	234.3
27.5°	1030.2	946.8	731.3	430.3	168.1	130.6	134.5	143.5	156.7	171.3	172.7
30°	1004.2	909.6	666.8	313.8	127.0	117.5	123.1	128.0	133.6	141.8	142.6
32.5°	974.3	873.8	600.6	216.7	112.6	110.7	115.1	117.5	121.9	127.0	127.5
35°	949.2	839.7	532.0	153.3	106.5	105.6	108.5	109.5	113.6	119.2	119.7
37.5°	934.9	812.0	461.2	123.6	102.4	101.0	102.7	102.7	108.5	116.8	118.0
40°	935.8	796.7	390.4	111.7	99.0	97.1	97.3	97.3	104.8	113.8	114.6
42.5°	962.4	800.6	327.7	107.0	96.3	94.1	92.9	93.7	100.0	105.8	106.3
45°	1024.6	828.1	268.8	104.1	93.7	92.9	90.3	90.0	92.4	95.1	95.1
47.5°	1126.8	882.3	228.9	102.2	91.5	91.2	88.1	84.9	84.7	85.6	85.6
50°	1292.9	975.7	202.2	100.0	90.0	88.1	84.4	79.5	77.8	78.6	78.6
52.5°	1542.0	1142.4	191.9	97.1	86.8	83.7	79.5	74.7	73.2	73.5	73.5
55°	1868.8	1398.3	190.5	93.7	83.4	78.3	74.9	71.3	69.6	70.1	70.1
57.5°	2267.9	1752.2	216.5	88.3	78.8	73.0	71.0	68.6	67.4	68.1	67.9
60°	2753.3	2215.4	321.1	82.7	74.2	68.1	68.1	66.2	65.2	65.9	65.7
62.5°	3312.3	2747.4	451.5	78.6	69.3	64.2	65.2	64.2	63.2	63.7	63.5
65°	3808.1	3094.1	422.8	75.4	64.5	60.6	62.3	61.8	61.1	61.5	61.3
67.5°	3822.4	2965.6	237.4	72.0	59.8	56.9	59.4	59.1	58.6	59.1	58.9
70°	3411.3	2504.2	133.8	65.7	55.0	52.5	56.0	55.7	55.2	56.2	56.0
72.5°	2733.1	1817.2	97.8	57.9	50.1	47.9	51.8	51.6	51.6	53.0	52.3
75°	1572.7	935.1	78.1	49.6	45.0	43.3	46.7	46.9	47.4	49.4	47.9
77.5°	448.3	291.4	63.7	42.1	38.7	37.9	41.4	41.8	42.1	44.3	42.3
80°	166.6	134.3	52.5	35.3	31.6	31.9	35.0	35.8	36.0	38.2	35.8
82.5°	106.3	88.5	42.6	27.2	24.8	24.6	28.5	29.4	29.4	29.7	28.2
85°	62.0	53.0	32.1	19.7	17.5	16.8	21.2	22.9	22.1	21.7	20.7
87.5°	41.6	36.5	19.7	10.9	9.5	9.0	12.4	13.6	13.1	12.4	11.7
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)