

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: P192649

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3250.4 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 34
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

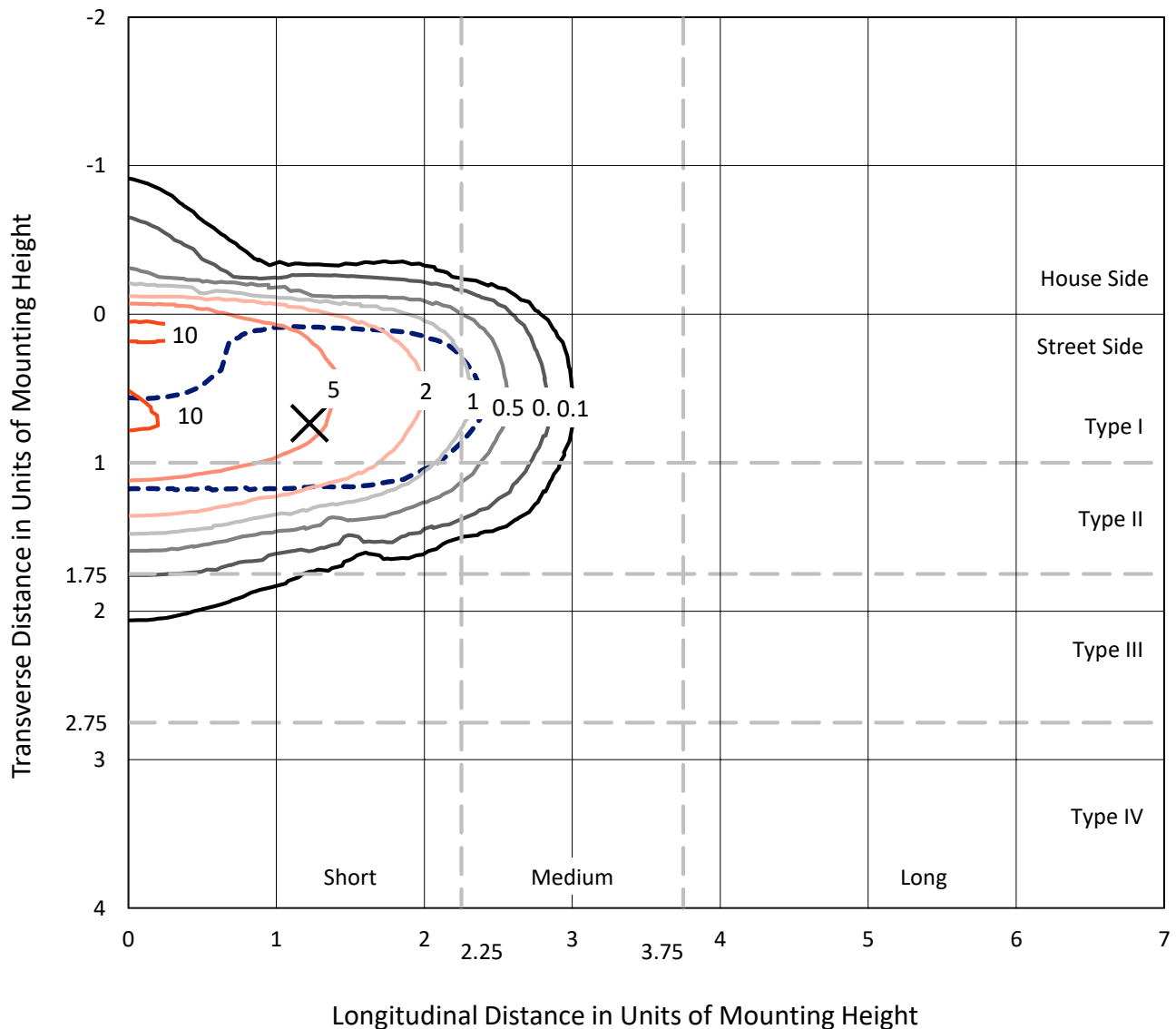


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

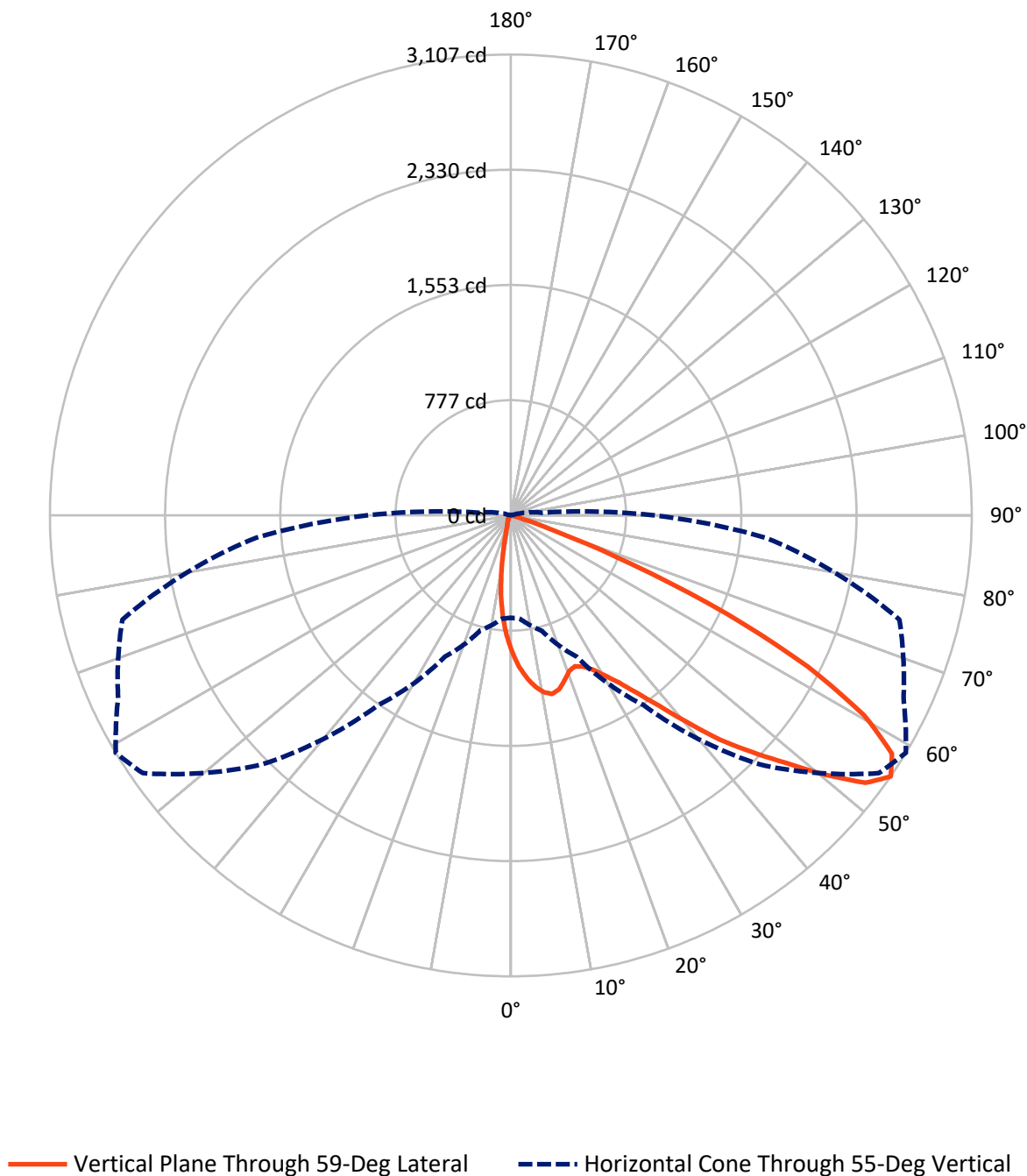


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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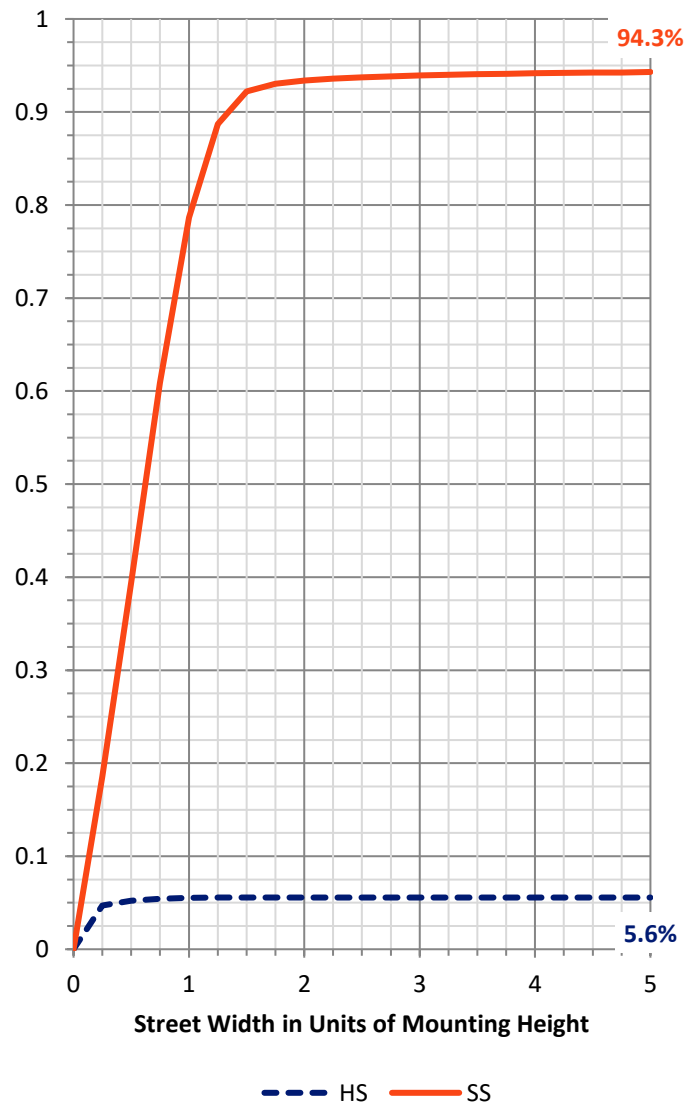
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	181.6	0.0	181.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3068.9	0.0	3068.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	3250.4	0.0	3250.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	2.4
10°-20°	183.5	5.6
20°-30°	312.2	9.6
30°-40°	537.0	16.5
40°-50°	829.1	25.5
50°-60°	833.5	25.6
60°-70°	427.4	13.1
70°-80°	46.3	1.4
80°-90°	4.8	0.1
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°	3250.4	100.0
0°-180°	3250.4	100.0

Coefficient of Utilization



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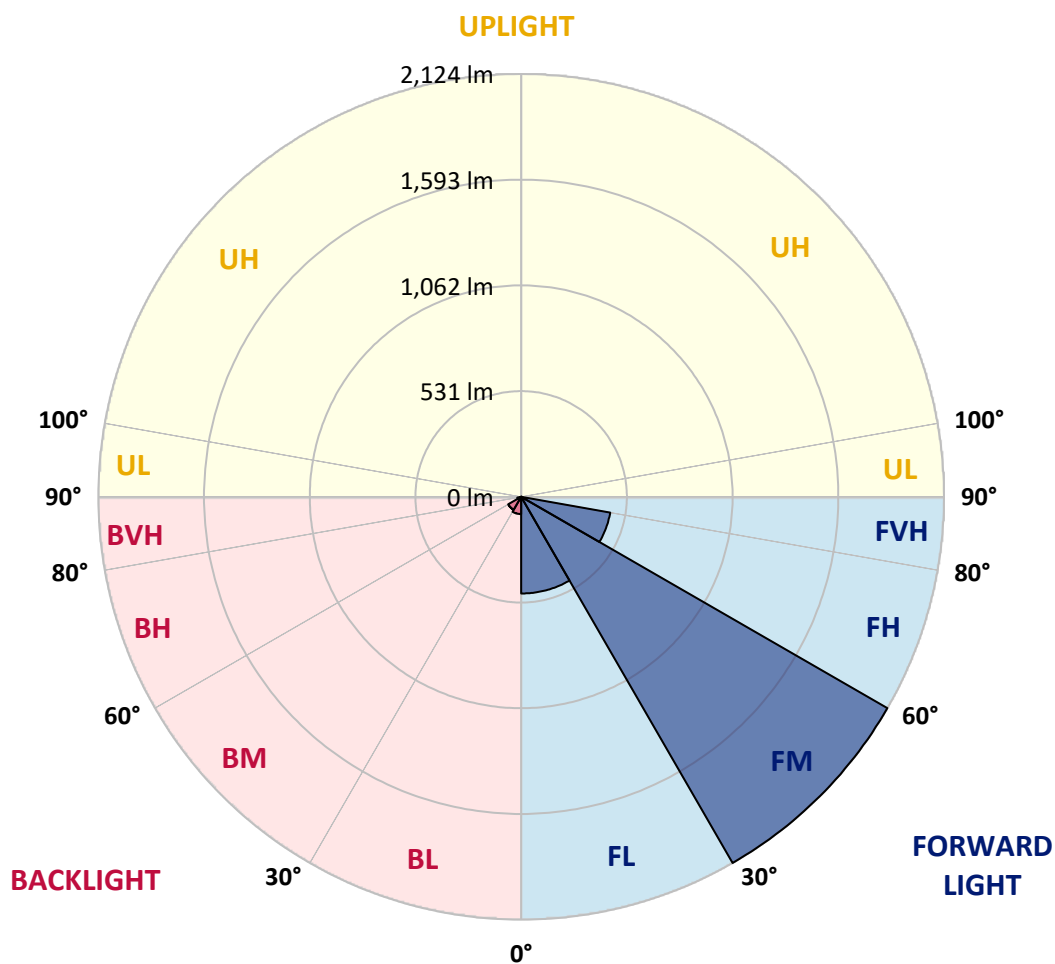
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	485.7	14.9			
FM	(30°-60°)	2124.2	65.3			
FH	(60°-80°)	454.3	14.0			G0/660
FVH	(80°-90°)	4.7	0.1			G0/10
BL	(0°-30°)	86.7	2.7	B0/110		
BM	(30°-60°)	75.3	2.3	B0/220		
BH	(60°-80°)	19.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0
2.5°	1082.6	1071.2	1067.7	1065.4	1054.8	1041.6	1023.5	1015.1	997.9	970.0	936.0
5°	1181.8	1179.7	1172.1	1167.8	1156.5	1137.7	1108.9	1095.1	1067.7	1020.9	959.8
7.5°	1138.5	1151.7	1162.3	1179.9	1202.2	1201.5	1177.3	1162.8	1132.2	1070.4	986.2
10°	971.0	981.7	998.9	1039.0	1120.8	1192.9	1221.3	1211.0	1186.4	1115.9	1011.6
12.5°	938.2	937.0	940.1	951.8	994.6	1097.4	1213.9	1234.7	1229.8	1157.5	1035.9
15°	955.7	954.3	954.0	957.9	968.4	1011.6	1157.6	1217.7	1256.3	1196.1	1056.3
17.5°	1004.5	998.8	995.8	992.5	989.5	1000.2	1090.1	1169.9	1260.3	1229.8	1073.5
20°	1088.4	1078.8	1067.5	1049.1	1031.9	1026.5	1061.8	1120.8	1245.9	1255.5	1084.6
22.5°	1193.6	1181.4	1161.9	1128.3	1093.2	1072.8	1075.7	1105.2	1224.4	1283.5	1089.8
25°	1312.1	1296.4	1270.2	1223.6	1172.1	1136.0	1117.1	1127.5	1214.6	1316.2	1095.7
27.5°	1438.8	1421.4	1387.3	1323.7	1265.2	1216.5	1178.2	1176.8	1231.4	1359.3	1105.2
30°	1564.5	1561.9	1517.3	1450.2	1372.8	1313.4	1258.1	1251.0	1277.9	1418.7	1124.3
32.5°	1732.2	1712.0	1657.6	1588.5	1499.1	1427.9	1362.5	1346.0	1349.5	1488.0	1153.7
35°	1943.5	1921.5	1844.8	1749.5	1649.5	1565.4	1493.1	1470.7	1462.2	1601.3	1203.2
37.5°	2080.1	2079.8	2031.5	1934.6	1827.3	1734.6	1656.1	1629.7	1612.6	1738.4	1279.9
40°	2083.8	2092.8	2099.1	2098.1	2021.9	1936.4	1866.5	1834.3	1794.5	1921.4	1379.0
42.5°	1971.9	1995.2	2051.1	2145.8	2190.9	2157.0	2098.1	2066.3	2007.2	2117.1	1499.9
45°	1820.8	1836.8	1934.6	2109.1	2282.7	2375.8	2330.8	2273.9	2196.0	2321.4	1608.2
47.5°	1753.1	1755.9	1819.0	2010.7	2289.6	2554.9	2582.2	2489.5	2367.4	2485.9	1693.0
50°	1550.7	1555.9	1642.9	1840.2	2208.6	2639.4	2834.5	2746.7	2554.5	2612.8	1723.9
52.5°	1168.7	1176.0	1286.5	1559.9	1986.2	2603.4	3015.2	2993.9	2759.4	2674.7	1725.6
55°	689.7	699.1	804.7	1050.1	1562.2	2373.9	3028.6	3106.9	2921.0	2711.4	1722.9
57.5°	322.1	328.8	389.2	541.0	971.6	1876.2	2826.5	3029.4	3010.3	2730.8	1741.9
60°	171.1	173.0	187.6	234.3	439.1	1189.8	2431.9	2735.7	2928.9	2757.6	1765.2
62.5°	130.8	131.4	130.7	136.2	184.5	528.0	1838.3	2248.9	2601.5	2737.5	1739.4
65°	113.4	114.2	108.9	107.6	118.3	188.4	1092.0	1603.1	2044.2	2465.7	1564.3
67.5°	101.7	102.0	95.5	89.9	91.9	101.8	430.8	877.6	1353.0	1807.3	1133.9
70°	93.6	93.2	86.1	77.3	74.9	69.6	137.0	321.7	646.6	916.5	527.2
72.5°	82.8	83.0	79.6	68.1	62.2	48.7	63.5	93.9	193.0	249.7	123.6
75°	73.4	72.5	68.3	60.9	51.3	32.0	31.4	41.8	59.4	59.1	26.7
77.5°	53.1	52.2	53.5	50.0	39.4	20.8	15.8	20.1	24.1	23.4	7.4
80°	38.9	38.4	34.5	41.6	34.8	14.2	9.9	10.7	12.4	10.6	2.3
82.5°	26.7	26.4	24.4	23.1	19.7	8.6	6.1	6.7	8.0	5.9	1.2
85°	4.3	4.8	17.7	13.9	11.7	3.9	4.3	4.6	5.4	3.3	0.4
87.5°	0.0	0.0	8.2	7.3	2.3	1.5	2.5	2.7	2.7	1.7	0.0
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°	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0	915.0
2.5°	918.5	899.3	863.8	827.1	793.2	752.7	724.9	703.9	679.8	673.2	687.5
5°	924.8	888.5	812.2	729.1	651.0	564.6	498.3	446.0	398.6	382.5	397.0
7.5°	934.7	880.8	756.4	619.6	483.8	348.7	256.3	195.5	156.7	145.2	151.4
10°	944.8	869.7	691.7	489.9	304.2	169.8	110.5	88.3	80.0	78.2	79.2
12.5°	953.0	854.7	612.8	348.3	162.7	90.9	72.3	68.8	67.5	67.5	68.0
15°	957.9	832.1	519.4	221.6	93.6	68.8	63.2	62.0	62.0	62.2	62.5
17.5°	957.4	803.4	417.3	134.1	70.0	60.8	57.6	56.6	56.4	56.9	57.0
20°	950.3	765.8	314.5	88.4	60.9	55.4	52.2	50.5	50.3	50.6	51.1
22.5°	936.9	719.4	225.0	68.1	55.0	50.3	46.2	44.7	44.7	45.2	45.5
25°	920.5	662.5	153.8	57.7	49.7	44.7	40.9	39.6	39.9	40.9	41.1
27.5°	900.2	598.6	104.6	49.5	43.1	39.2	36.3	35.3	36.3	37.5	38.0
30°	882.9	532.1	74.7	42.8	36.6	33.8	32.0	32.0	33.4	35.8	36.5
32.5°	869.3	467.6	57.6	37.8	31.8	29.4	28.4	29.4	31.4	34.0	34.5
35°	867.6	414.5	48.7	33.8	28.4	25.9	25.5	27.2	29.4	31.2	31.6
37.5°	880.8	365.5	43.9	30.5	25.3	23.1	22.6	24.7	26.9	29.2	29.7
40°	906.0	326.9	40.4	27.5	22.8	20.3	19.5	21.1	23.9	27.1	27.9
42.5°	938.5	295.0	36.6	24.4	20.3	16.8	16.0	17.7	20.8	23.9	24.9
45°	969.6	267.5	32.4	20.9	17.1	13.0	12.7	15.0	16.5	19.7	20.5
47.5°	986.7	243.4	28.7	17.1	13.2	10.6	10.6	11.2	12.7	16.5	17.3
50°	980.9	224.1	24.9	12.7	9.2	8.0	8.0	7.8	10.2	13.2	13.7
52.5°	969.4	212.9	21.6	9.9	6.3	5.8	5.1	5.8	7.1	8.4	8.6
55°	967.7	211.0	18.0	7.8	4.4	3.9	2.8	2.8	2.8	2.7	2.3
57.5°	981.1	214.0	15.2	6.3	3.3	2.5	1.5	0.0	0.0	0.0	0.0
60°	995.1	217.3	13.0	4.4	2.3	1.3	0.2	0.0	0.0	0.0	0.0
62.5°	972.0	210.0	10.9	2.7	1.7	0.5	0.0	0.0	0.0	0.0	0.0
65°	853.8	178.7	8.6	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	607.3	119.7	5.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	277.2	50.0	3.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	59.3	15.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.1	11.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.9	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)