

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: P#

Luminaire Tested: **ARCH4-110-AMB-U-T2R-PFS**

Issue Date: 12/16/2024

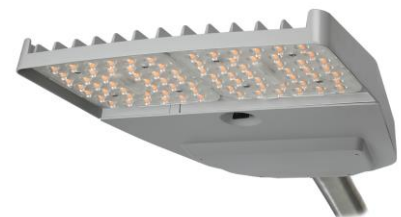
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ARCH4-110-AMB-U-T2R-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

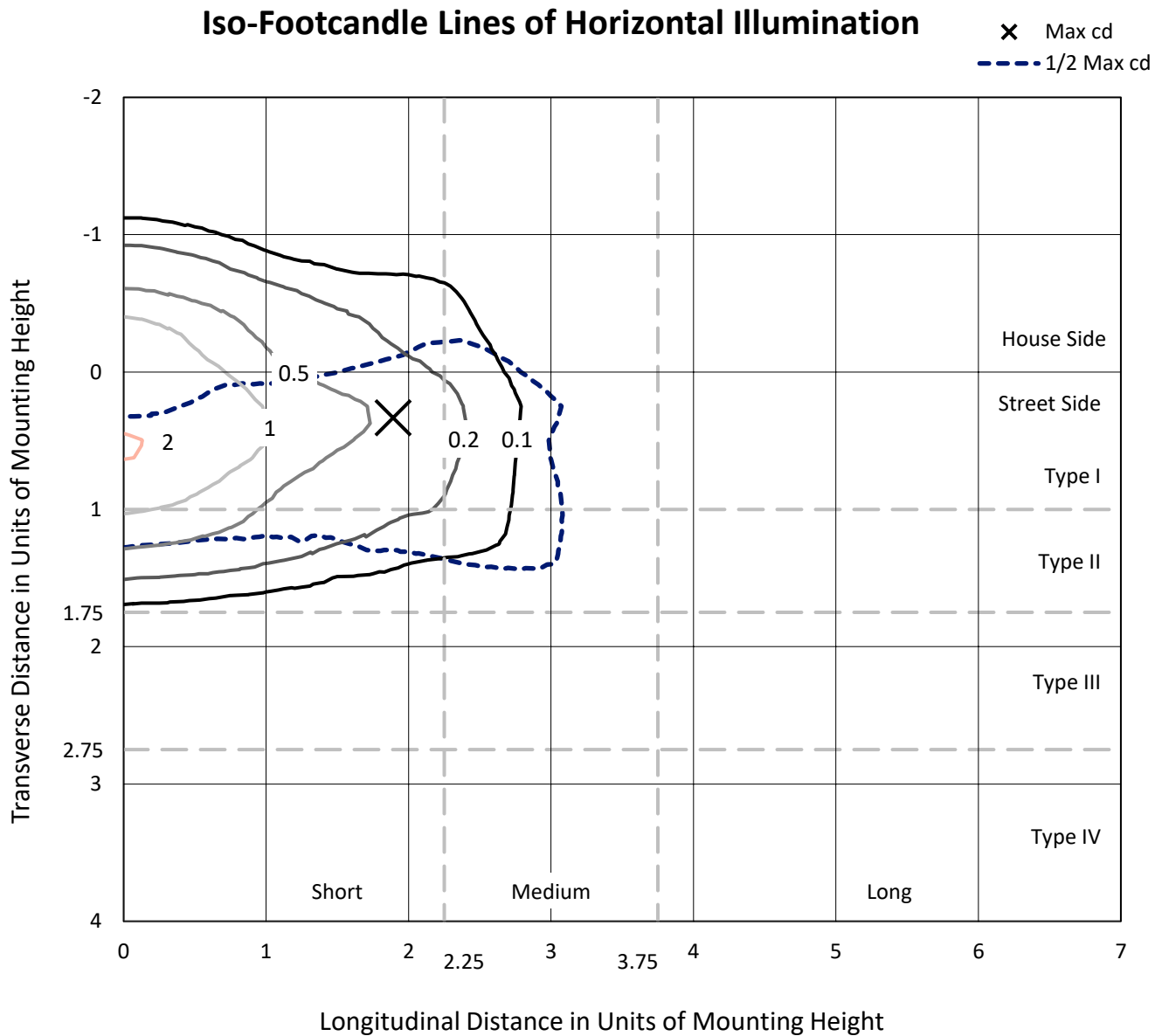
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4497 lumens
Efficiency: N/A
Efficacy: 39.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 112.6
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: 24 FT



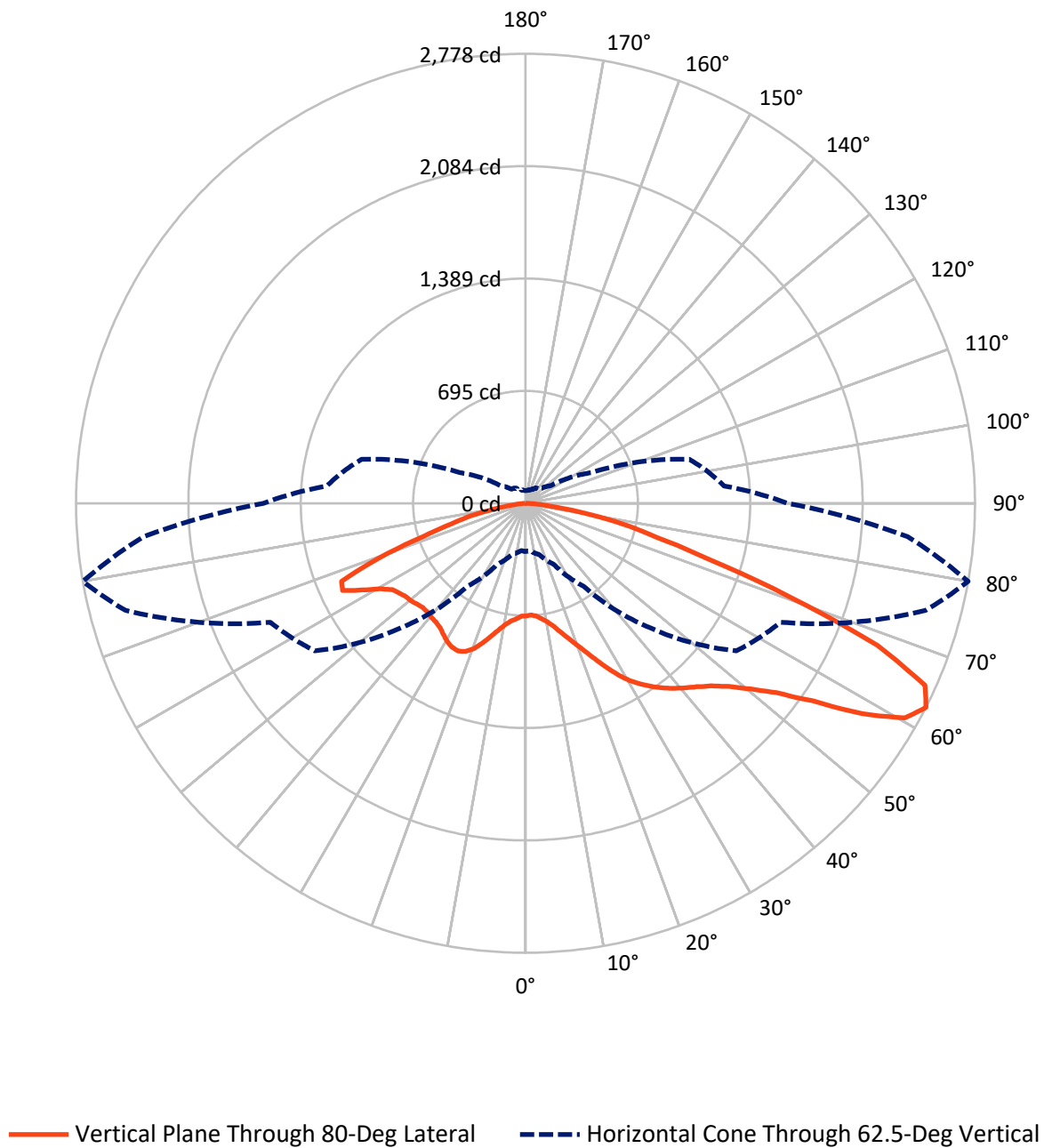
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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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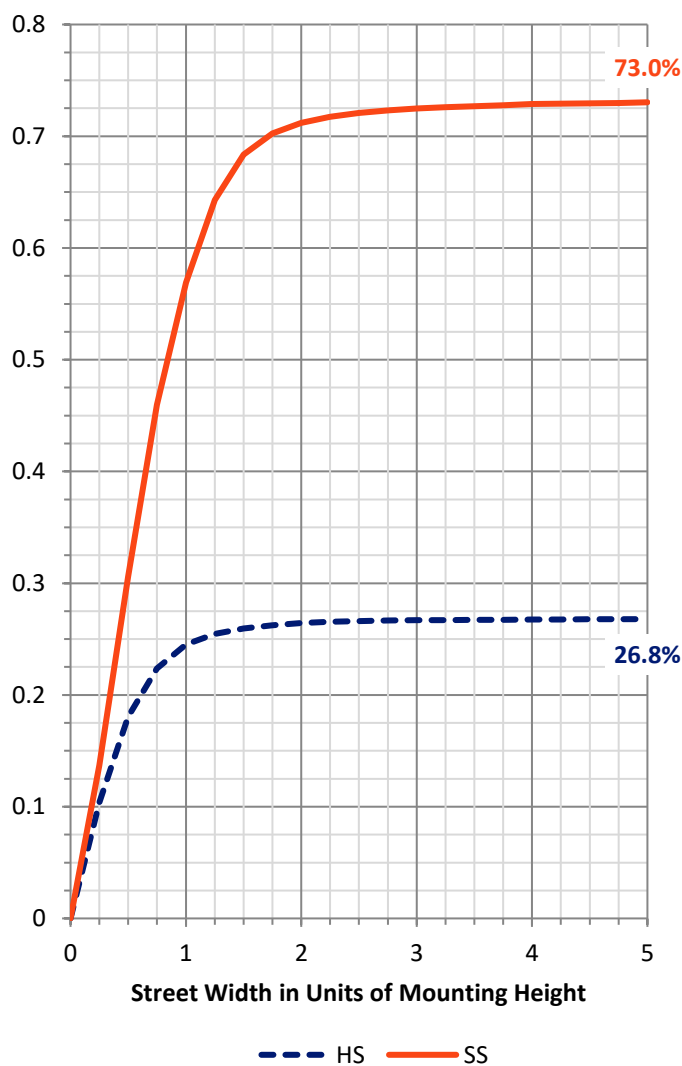
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.7	0.0	1212.7
	% Fixture	27.0	0.0	27.0
Street Side	Lumens	3284.3	0.0	3284.3
	% Fixture	73.0	0.0	73.0
Total	Lumens	4497.0	0.0	4497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.6
10°-20°	273.3	6.1
20°-30°	521.3	11.6
30°-40°	767.5	17.1
40°-50°	915.5	20.4
50°-60°	865.2	19.2
60°-70°	732.0	16.3
70°-80°	312.9	7.0
80°-90°	36.9	0.8
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°	4497.0	100.0
0°-180°	4497.0	100.0

Coefficient of Utilization



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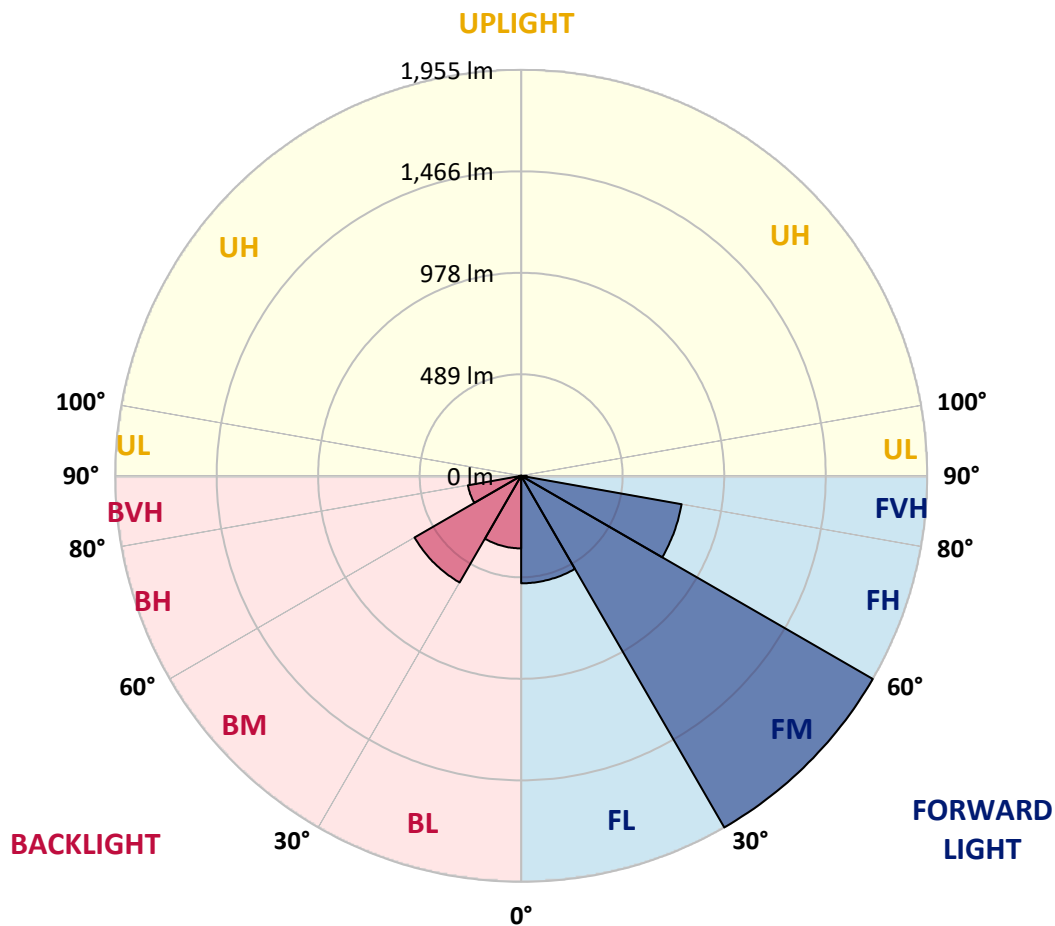
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.5	11.5			
FM	(30°-60°)	1955.2	43.5			
FH	(60°-80°)	784.5	17.4			G1/1800
FVH	(80°-90°)	27.1	0.6			G1/100
BL	(0°-30°)	349.5	7.8	B1/500		
BM	(30°-60°)	593.0	13.2	B1/1000		
BH	(60°-80°)	260.4	5.8	B1/500		G1/500
BVH	(80°-90°)	9.8	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8
2.5°	695.8	695.8	695.8	695.8	695.8	690.8	690.8	690.8	690.8	690.8	695.8
5°	735.5	735.5	735.5	730.6	720.6	710.7	705.7	700.8	700.8	700.8	705.7
7.5°	810.1	810.1	810.1	790.2	775.3	755.4	740.5	730.6	720.6	720.6	720.6
10°	939.3	934.3	924.4	884.6	859.8	815.1	790.2	765.4	750.5	745.5	745.5
12.5°	1088.4	1093.4	1073.5	1018.8	974.1	909.5	859.8	815.1	790.2	780.3	780.3
15°	1237.5	1237.5	1227.6	1163.0	1113.3	1028.8	954.2	889.6	844.9	830.0	830.0
17.5°	1346.8	1351.8	1336.9	1297.1	1252.4	1158.0	1063.6	969.1	904.5	884.6	884.6
20°	1456.2	1456.2	1441.3	1386.6	1351.8	1287.2	1177.9	1053.6	969.1	944.3	939.3
22.5°	1575.5	1580.4	1550.6	1486.0	1436.3	1376.7	1292.2	1153.0	1048.6	1018.8	1008.9
25°	1709.6	1714.6	1669.9	1600.3	1530.7	1456.2	1386.6	1267.3	1138.1	1103.3	1088.4
27.5°	1823.9	1814.0	1794.1	1724.6	1630.1	1540.7	1476.1	1366.7	1237.5	1192.8	1167.9
30°	1933.3	1938.3	1903.5	1828.9	1734.5	1635.1	1545.6	1466.1	1327.0	1272.3	1222.6
32.5°	2102.3	2107.2	2047.6	1928.3	1814.0	1724.6	1640.1	1540.7	1406.5	1336.9	1262.4
35°	2221.5	2216.6	2186.8	2052.6	1898.5	1814.0	1744.4	1630.1	1481.0	1396.5	1292.2
37.5°	2186.8	2176.8	2201.7	2132.1	2002.9	1908.4	1833.9	1729.5	1555.6	1451.2	1322.0
40°	2087.4	2067.5	2112.2	2092.3	2042.6	2012.8	1933.3	1843.8	1630.1	1500.9	1346.8
42.5°	1973.0	1948.2	1983.0	2002.9	1978.0	2042.6	2042.6	1933.3	1714.6	1550.6	1341.9
45°	1883.6	1858.7	1848.8	1868.7	1868.7	1958.1	2097.3	2047.6	1794.1	1610.2	1356.8
47.5°	1779.2	1744.4	1724.6	1724.6	1744.4	1799.1	2062.5	2171.8	1903.5	1689.8	1396.5
50°	1620.2	1580.4	1585.4	1600.3	1645.0	1645.0	1908.4	2216.6	2052.6	1804.1	1466.1
52.5°	1297.1	1257.4	1331.9	1471.1	1580.4	1545.6	1694.7	2161.9	2261.3	1943.2	1570.5
55°	914.5	889.6	974.1	1197.7	1471.1	1500.9	1525.8	2037.7	2435.2	2156.9	1689.8
57.5°	616.3	601.4	680.9	874.7	1237.5	1500.9	1456.2	1858.7	2504.8	2455.1	1878.6
60°	412.5	407.5	462.2	606.3	899.6	1406.5	1486.0	1729.5	2514.8	2693.7	2127.1
62.5°	298.2	293.2	328.0	417.5	626.2	1088.4	1590.4	1739.5	2559.5	2778.2	2370.6
65°	223.6	223.6	238.6	303.2	417.5	740.5	1540.7	1918.4	2559.5	2713.6	2450.2
67.5°	178.9	178.9	188.9	228.6	308.1	477.1	1158.0	2226.5	2330.9	2345.8	2127.1
70°	149.1	149.1	154.1	178.9	228.6	323.0	720.6	2132.1	1819.0	1729.5	1694.7
72.5°	109.3	109.3	124.2	144.1	178.9	233.6	422.4	1570.5	1341.9	1177.9	1302.1
75°	79.5	79.5	89.5	114.3	139.2	164.0	253.5	939.3	1043.7	834.9	1043.7
77.5°	54.7	54.7	64.6	84.5	94.4	114.3	154.1	487.0	944.3	616.3	750.5
80°	39.8	34.8	39.8	54.7	64.6	69.6	89.5	218.7	611.3	367.8	382.7
82.5°	19.9	19.9	19.9	29.8	34.8	39.8	49.7	94.4	248.5	178.9	169.0
85°	5.0	5.0	5.0	9.9	14.9	19.9	24.8	39.8	74.5	74.5	79.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	9.9	9.9	9.9	9.9
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°	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8	695.8
2.5°	695.8	695.8	700.8	705.7	710.7	715.7	715.7	720.6	725.6	725.6	720.6
5°	705.7	710.7	720.6	725.6	740.5	745.5	750.5	755.4	760.4	765.4	765.4
7.5°	725.6	725.6	740.5	755.4	770.3	780.3	790.2	795.2	795.2	795.2	795.2
10°	750.5	750.5	770.3	785.2	805.1	820.0	825.0	830.0	825.0	830.0	825.0
12.5°	785.2	790.2	810.1	830.0	854.8	864.8	864.8	864.8	859.8	859.8	859.8
15°	830.0	834.9	859.8	884.6	909.5	909.5	899.6	889.6	889.6	884.6	884.6
17.5°	884.6	889.6	914.5	934.3	939.3	929.4	914.5	894.6	874.7	874.7	869.7
20°	939.3	944.3	959.2	949.2	939.3	914.5	884.6	854.8	844.9	839.9	834.9
22.5°	1003.9	994.0	979.1	934.3	909.5	869.7	830.0	780.3	760.4	760.4	755.4
25°	1068.5	1038.7	969.1	904.5	869.7	815.1	750.5	700.8	685.8	680.9	675.9
27.5°	1118.2	1058.6	939.3	864.8	825.0	750.5	675.9	626.2	606.3	606.3	606.3
30°	1148.0	1058.6	904.5	834.9	785.2	690.8	616.3	561.6	536.7	531.8	531.8
32.5°	1153.0	1043.7	869.7	805.1	755.4	646.1	556.6	502.0	477.1	472.1	467.2
35°	1153.0	1018.8	844.9	790.2	715.7	601.4	511.9	452.3	432.4	422.4	422.4
37.5°	1158.0	1003.9	834.9	775.3	675.9	556.6	472.1	422.4	397.6	387.7	387.7
40°	1163.0	998.9	830.0	760.4	641.1	521.8	442.3	387.7	357.8	347.9	347.9
42.5°	1133.1	979.1	830.0	745.5	596.4	477.1	402.6	347.9	328.0	318.1	313.1
45°	1118.2	974.1	834.9	725.6	556.6	427.4	352.9	308.1	288.3	283.3	278.3
47.5°	1138.1	984.0	844.9	705.7	492.0	367.8	303.2	258.4	238.6	233.6	228.6
50°	1177.9	1003.9	854.8	675.9	427.4	313.1	253.5	208.7	183.9	178.9	173.9
52.5°	1232.5	1018.8	854.8	631.2	367.8	263.4	208.7	164.0	149.1	144.1	144.1
55°	1302.1	1048.6	864.8	581.5	318.1	223.6	169.0	139.2	129.2	129.2	129.2
57.5°	1396.5	1078.5	879.7	526.8	283.3	178.9	139.2	124.2	114.3	114.3	114.3
60°	1505.9	1138.1	944.3	492.0	238.6	144.1	124.2	109.3	99.4	99.4	99.4
62.5°	1620.2	1232.5	1048.6	447.3	188.9	124.2	114.3	94.4	84.5	79.5	79.5
65°	1704.7	1346.8	1158.0	387.7	139.2	109.3	99.4	74.5	59.6	59.6	59.6
67.5°	1630.1	1366.7	1103.3	298.2	109.3	94.4	79.5	59.6	44.7	39.8	39.8
70°	1391.6	1207.7	730.6	183.9	89.5	74.5	59.6	39.8	24.8	19.9	19.9
72.5°	1078.5	954.2	377.7	109.3	69.6	54.7	39.8	24.8	14.9	14.9	14.9
75°	929.4	745.5	203.8	74.5	49.7	34.8	29.8	19.9	9.9	9.9	9.9
77.5°	790.2	576.5	119.3	49.7	29.8	24.8	19.9	14.9	5.0	5.0	5.0
80°	467.2	328.0	69.6	34.8	19.9	14.9	9.9	9.9	5.0	0.0	0.0
82.5°	203.8	144.1	39.8	19.9	9.9	5.0	5.0	5.0	5.0	0.0	0.0
85°	84.5	64.6	24.8	9.9	5.0	5.0	5.0	0.0	0.0	0.0	0.0
87.5°	9.9	9.9	5.0	5.0	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)