

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**

Issue Date: 12/16/2024

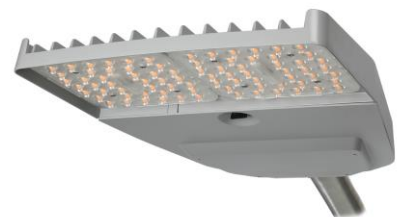
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-4)
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
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

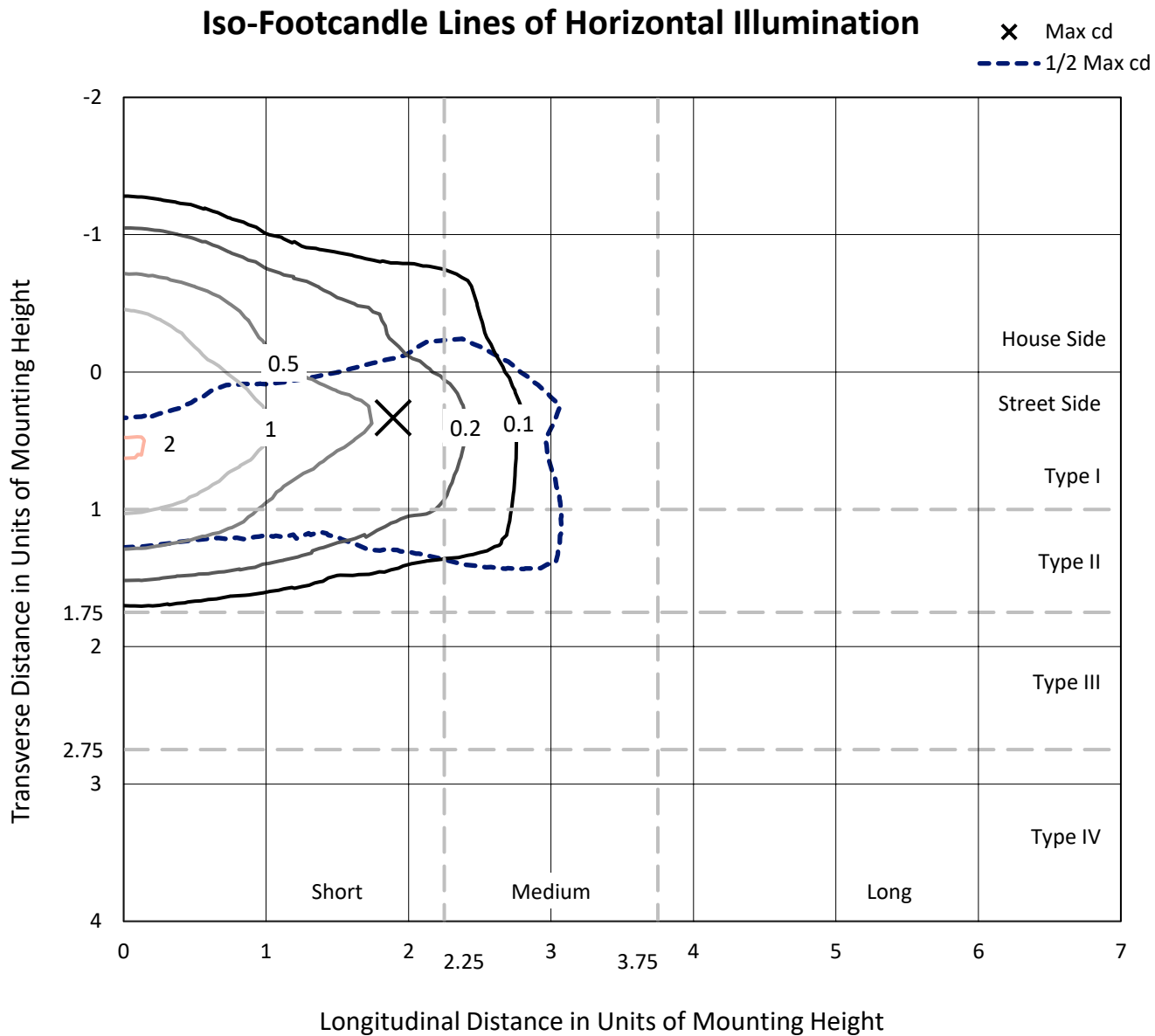
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751 lumens
Efficiency: N/A
Efficacy: 42.2 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



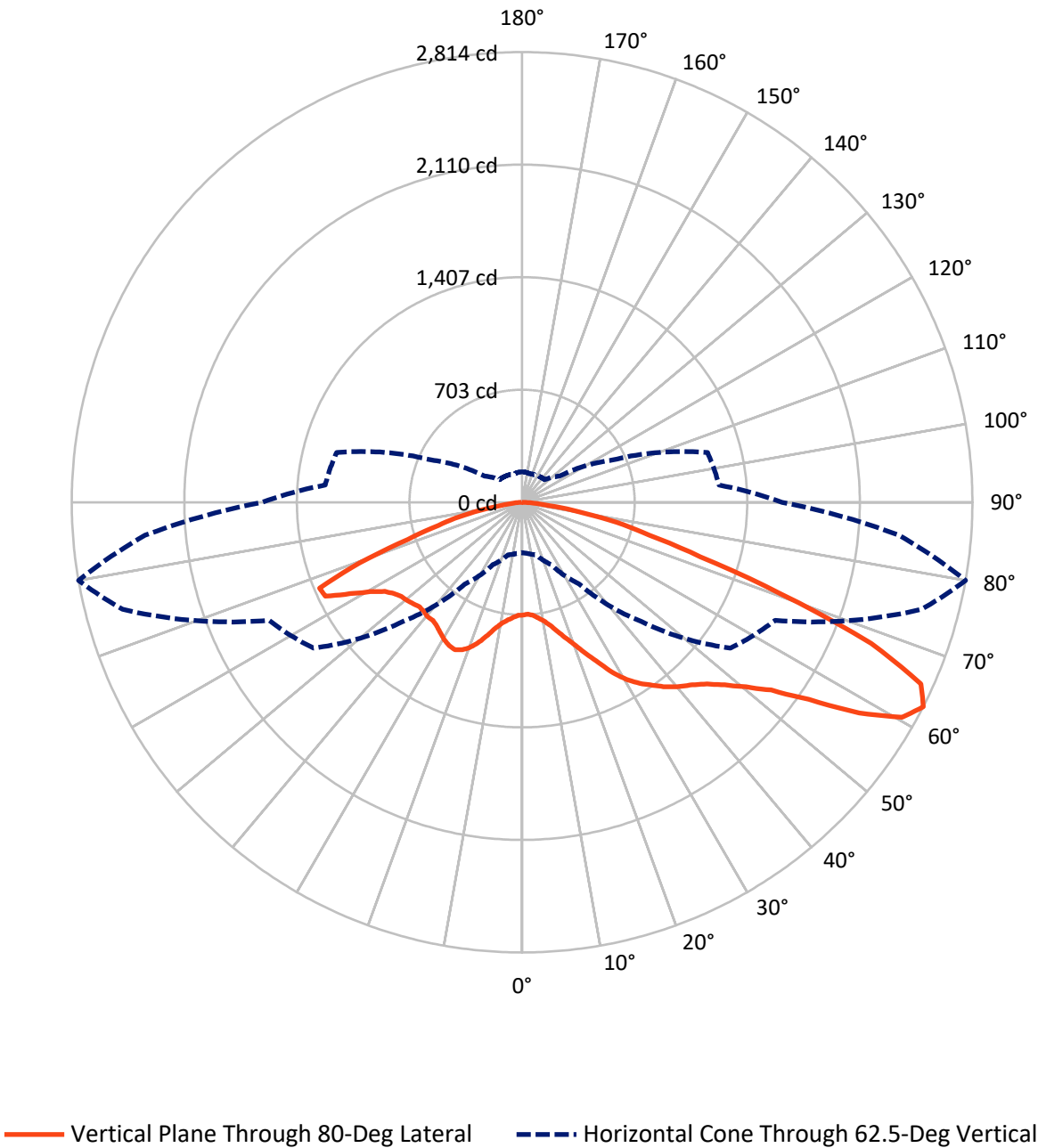
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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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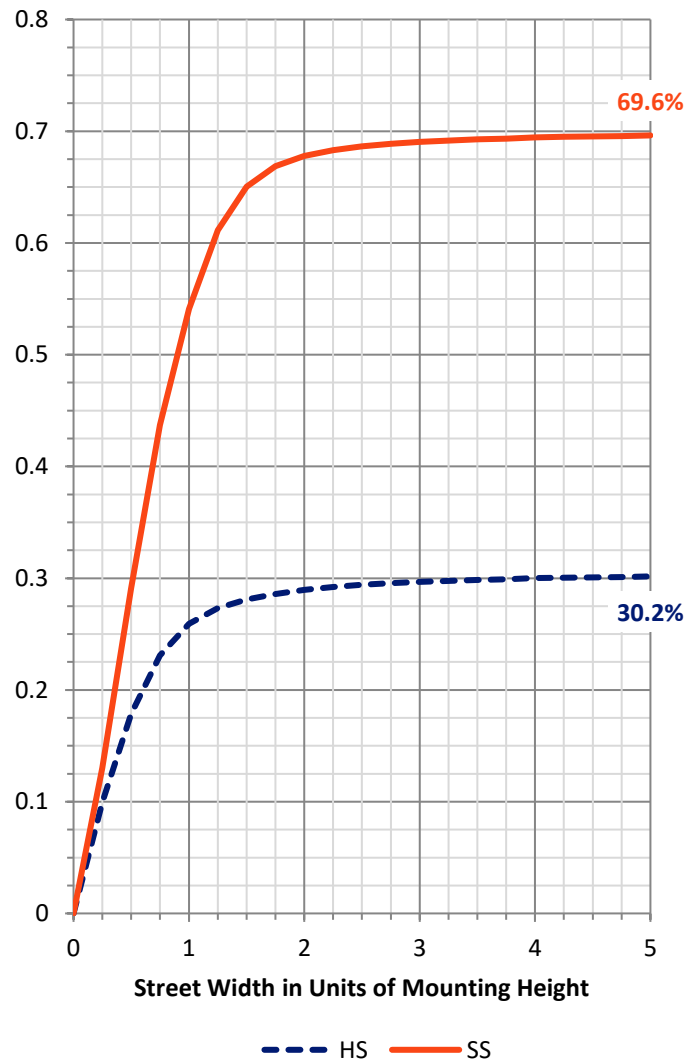
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1442.3	0.0	1442.3
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3308.7	0.0	3308.7
	% Fixture	69.6	0.0	69.6
Total	Lumens	4751.0	0.0	4751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.5
10°-20°	276.0	5.8
20°-30°	535.9	11.3
30°-40°	801.4	16.9
40°-50°	960.2	20.2
50°-60°	913.5	19.2
60°-70°	788.0	16.6
70°-80°	354.7	7.5
80°-90°	48.1	1.0
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°	4751.0	100.0
0°-180°	4751.0	100.0

Coefficient of Utilization



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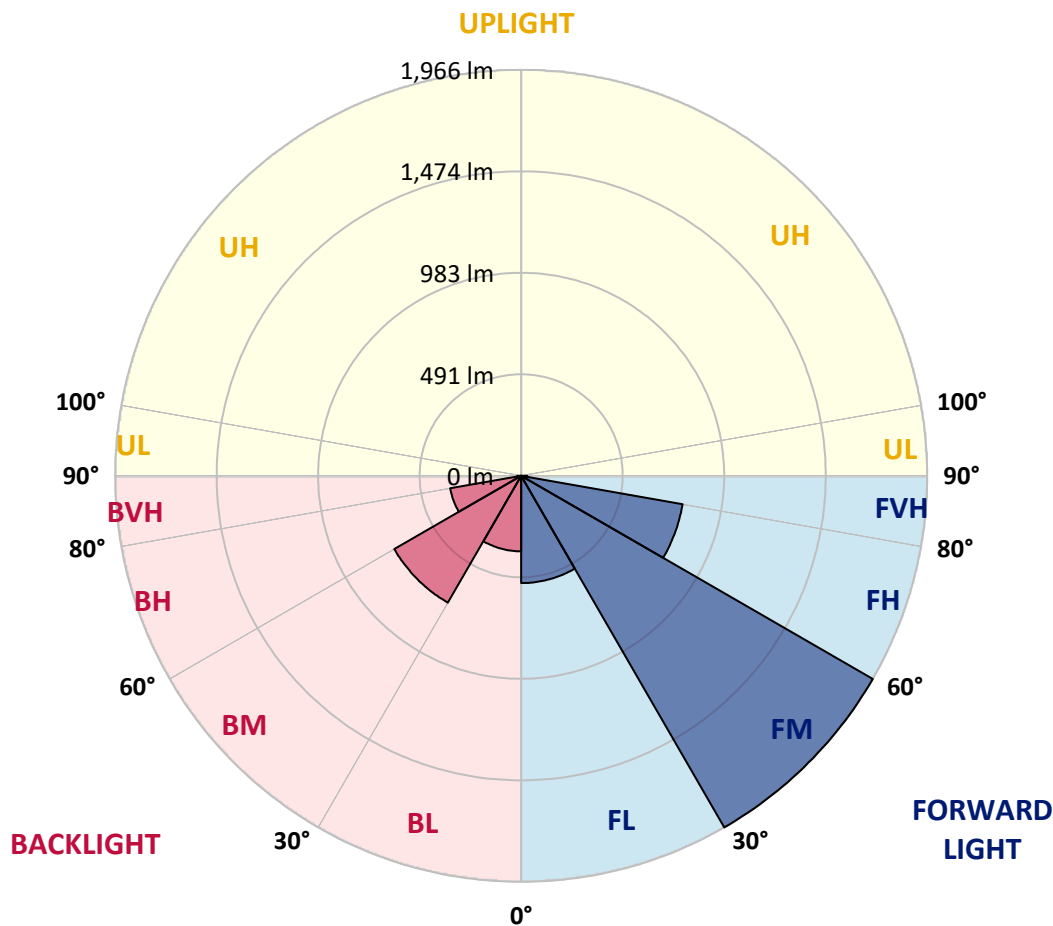
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.3	10.9			
FM	(30°-60°)	1965.9	41.4			
FH	(60°-80°)	793.9	16.7			G1/1800
FVH	(80°-90°)	29.6	0.6			G1/100
BL	(0°-30°)	365.7	7.7	B1/500		
BM	(30°-60°)	709.3	14.9	B1/1000		
BH	(60°-80°)	348.8	7.3	B1/500		G1/500
BVH	(80°-90°)	18.5	0.4			G1/100
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°	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7
2.5°	694.7	699.7	704.7	699.7	704.7	699.7	699.7	699.7	699.7	699.7	704.7
5°	734.6	739.6	739.6	729.6	729.6	719.7	714.7	709.7	709.7	709.7	714.7
7.5°	804.6	814.6	814.6	794.6	779.6	759.6	744.6	734.6	724.6	729.6	729.6
10°	924.6	934.5	924.6	884.6	859.6	824.6	789.6	769.6	754.6	754.6	754.6
12.5°	1084.5	1089.5	1074.5	1019.5	974.5	919.6	859.6	819.6	794.6	789.6	789.6
15°	1234.4	1244.4	1234.4	1164.4	1109.5	1039.5	954.5	889.6	849.6	839.6	834.6
17.5°	1334.4	1349.3	1349.3	1294.4	1244.4	1174.4	1059.5	969.5	904.6	894.6	889.6
20°	1444.3	1459.3	1454.3	1394.3	1349.3	1299.4	1179.4	1054.5	974.5	954.5	949.5
22.5°	1569.2	1574.2	1559.2	1489.3	1439.3	1389.3	1289.4	1159.4	1054.5	1029.5	1019.5
25°	1689.2	1699.2	1679.2	1604.2	1529.3	1464.3	1389.3	1264.4	1144.4	1109.5	1094.5
27.5°	1804.1	1809.1	1809.1	1724.2	1634.2	1549.3	1479.3	1379.3	1239.4	1204.4	1174.4
30°	1929.1	1924.1	1929.1	1834.1	1739.2	1649.2	1549.3	1479.3	1334.4	1284.4	1229.4
32.5°	2089.0	2089.0	2074.0	1929.1	1819.1	1739.2	1644.2	1554.2	1409.3	1349.3	1274.4
35°	2203.9	2213.9	2203.9	2059.0	1904.1	1824.1	1744.2	1644.2	1489.3	1404.3	1304.4
37.5°	2178.9	2193.9	2208.9	2139.0	2014.0	1934.1	1844.1	1749.2	1564.2	1464.3	1339.4
40°	2079.0	2084.0	2109.0	2094.0	2049.0	2024.0	1944.1	1854.1	1639.2	1514.3	1354.3
42.5°	1974.0	1969.0	1984.0	2004.0	1979.0	2039.0	2049.0	1944.1	1719.2	1559.2	1349.3
45°	1884.1	1879.1	1854.1	1874.1	1874.1	1944.1	2104.0	2064.0	1804.1	1619.2	1364.3
47.5°	1789.1	1774.1	1739.2	1734.2	1749.2	1784.1	2074.0	2188.9	1914.1	1704.2	1409.3
50°	1624.2	1619.2	1594.2	1604.2	1654.2	1634.2	1919.1	2228.9	2054.0	1814.1	1479.3
52.5°	1309.4	1314.4	1334.4	1479.3	1584.2	1539.3	1704.2	2178.9	2248.9	1949.1	1579.2
55°	929.6	944.5	979.5	1199.4	1484.3	1509.3	1529.3	2054.0	2428.8	2173.9	1704.2
57.5°	634.7	649.7	689.7	879.6	1254.4	1509.3	1454.3	1874.1	2508.8	2483.8	1894.1
60°	429.8	444.8	474.8	609.7	909.6	1394.3	1484.3	1744.2	2533.8	2728.7	2144.0
62.5°	314.8	319.8	339.8	429.8	624.7	1054.5	1589.2	1744.2	2583.8	2813.6	2363.9
65°	239.9	239.9	254.9	314.8	434.8	709.7	1549.3	1939.1	2588.7	2738.7	2453.8
67.5°	194.9	194.9	204.9	234.9	319.8	464.8	1169.4	2258.9	2378.9	2353.9	2129.0
70°	159.9	164.9	169.9	189.9	239.9	319.8	744.6	2164.0	1839.1	1714.2	1689.2
72.5°	124.9	129.9	134.9	154.9	184.9	229.9	429.8	1589.2	1344.4	1164.4	1309.4
75°	95.0	95.0	104.9	124.9	144.9	164.9	259.9	939.5	1044.5	819.6	1044.5
77.5°	70.0	70.0	75.0	95.0	100.0	114.9	159.9	479.8	974.5	604.7	734.6
80°	50.0	50.0	55.0	65.0	70.0	70.0	100.0	214.9	669.7	359.8	374.8
82.5°	25.0	30.0	30.0	35.0	40.0	45.0	55.0	95.0	284.9	174.9	169.9
85°	15.0	15.0	15.0	15.0	20.0	20.0	30.0	40.0	90.0	75.0	80.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0
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°	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7	704.7
2.5°	704.7	704.7	709.7	714.7	719.7	724.6	729.6	729.6	734.6	734.6	739.6
5°	714.7	719.7	724.6	739.6	749.6	754.6	764.6	764.6	769.6	774.6	779.6
7.5°	729.6	734.6	749.6	764.6	779.6	789.6	799.6	804.6	809.6	809.6	814.6
10°	754.6	759.6	774.6	794.6	819.6	829.6	839.6	839.6	839.6	844.6	844.6
12.5°	789.6	794.6	814.6	844.6	869.6	879.6	879.6	874.6	874.6	874.6	879.6
15°	839.6	844.6	869.6	899.6	919.6	919.6	914.6	904.6	899.6	904.6	909.6
17.5°	894.6	899.6	924.6	944.5	949.5	934.5	924.6	914.6	909.6	914.6	919.6
20°	949.5	954.5	964.5	964.5	944.5	919.6	909.6	899.6	894.6	904.6	909.6
22.5°	1009.5	1004.5	984.5	949.5	914.6	879.6	869.6	864.6	864.6	869.6	874.6
25°	1074.5	1049.5	974.5	919.6	874.6	839.6	824.6	814.6	814.6	819.6	824.6
27.5°	1124.5	1064.5	944.5	879.6	844.6	804.6	784.6	764.6	759.6	759.6	764.6
30°	1154.4	1064.5	909.6	849.6	819.6	774.6	739.6	714.7	699.7	689.7	694.7
32.5°	1159.4	1049.5	874.6	824.6	799.6	754.6	704.7	664.7	644.7	634.7	634.7
35°	1159.4	1024.5	854.6	814.6	789.6	729.6	669.7	619.7	599.7	584.7	589.7
37.5°	1164.4	1009.5	839.6	814.6	779.6	709.7	639.7	594.7	564.7	539.7	539.7
40°	1174.4	1009.5	844.6	819.6	764.6	679.7	609.7	554.7	509.8	484.8	489.8
42.5°	1139.4	989.5	844.6	819.6	739.6	649.7	569.7	504.8	464.8	444.8	444.8
45°	1119.5	979.5	849.6	819.6	709.7	594.7	504.8	449.8	419.8	404.8	404.8
47.5°	1144.4	994.5	864.6	814.6	649.7	519.7	434.8	389.8	369.8	349.8	349.8
50°	1189.4	1014.5	874.6	799.6	584.7	439.8	364.8	329.8	309.9	299.9	299.9
52.5°	1244.4	1029.5	884.6	769.6	509.8	374.8	314.8	279.9	259.9	254.9	254.9
55°	1319.4	1059.5	904.6	734.6	449.8	324.8	269.9	239.9	229.9	224.9	224.9
57.5°	1409.3	1094.5	949.5	704.7	399.8	274.9	234.9	214.9	214.9	214.9	214.9
60°	1519.3	1154.4	1044.5	669.7	344.8	234.9	209.9	204.9	199.9	204.9	204.9
62.5°	1624.2	1234.4	1199.4	624.7	284.9	199.9	194.9	189.9	184.9	189.9	189.9
65°	1704.2	1344.4	1379.3	549.7	224.9	179.9	174.9	169.9	169.9	179.9	179.9
67.5°	1639.2	1369.3	1379.3	434.8	184.9	159.9	154.9	154.9	159.9	164.9	169.9
70°	1404.3	1219.4	944.5	294.9	149.9	139.9	139.9	134.9	139.9	149.9	149.9
72.5°	1099.5	959.5	539.7	189.9	119.9	114.9	119.9	119.9	124.9	134.9	139.9
75°	944.5	784.6	299.9	124.9	95.0	95.0	104.9	104.9	104.9	114.9	114.9
77.5°	809.6	624.7	184.9	85.0	75.0	75.0	80.0	85.0	80.0	80.0	80.0
80°	494.8	354.8	109.9	65.0	55.0	55.0	60.0	60.0	60.0	60.0	60.0
82.5°	219.9	159.9	60.0	45.0	35.0	35.0	35.0	40.0	35.0	35.0	35.0
85°	95.0	75.0	35.0	25.0	20.0	15.0	15.0	15.0	10.0	10.0	10.0
87.5°	15.0	10.0	10.0	10.0	5.0	5.0	5.0	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)