

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-T2U-PFS**

Issue Date: 12/16/2024

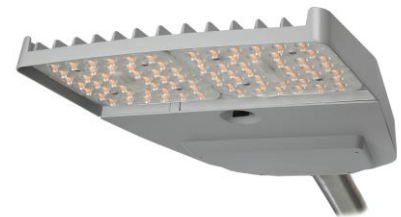
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-3)
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-T2U-PFS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH REAR PERIMETER FENCE SHIELD
Light Source: -
Ballast/Driver: -

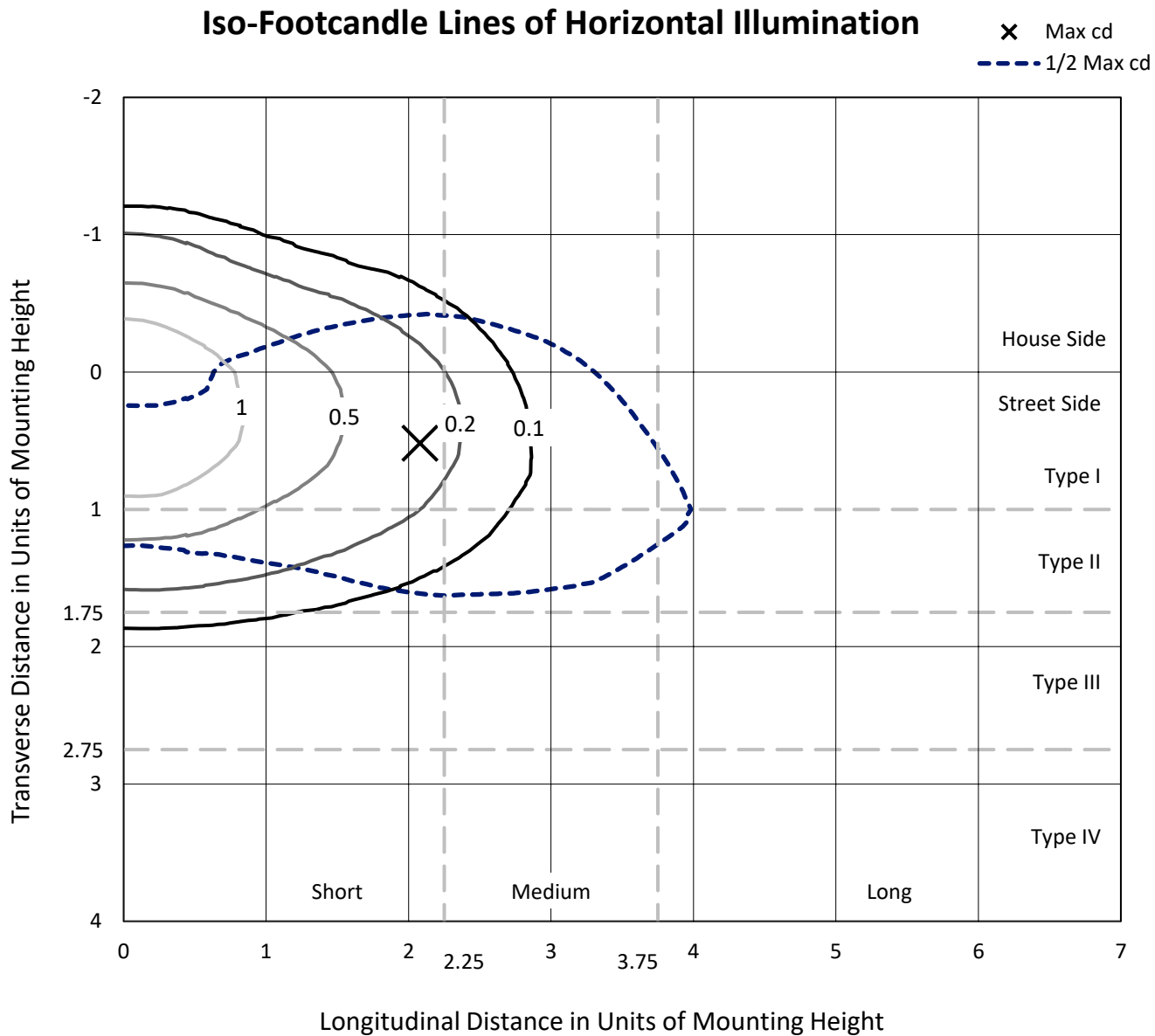
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4629 lumens
Efficiency: N/A
Efficacy: 41.1 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



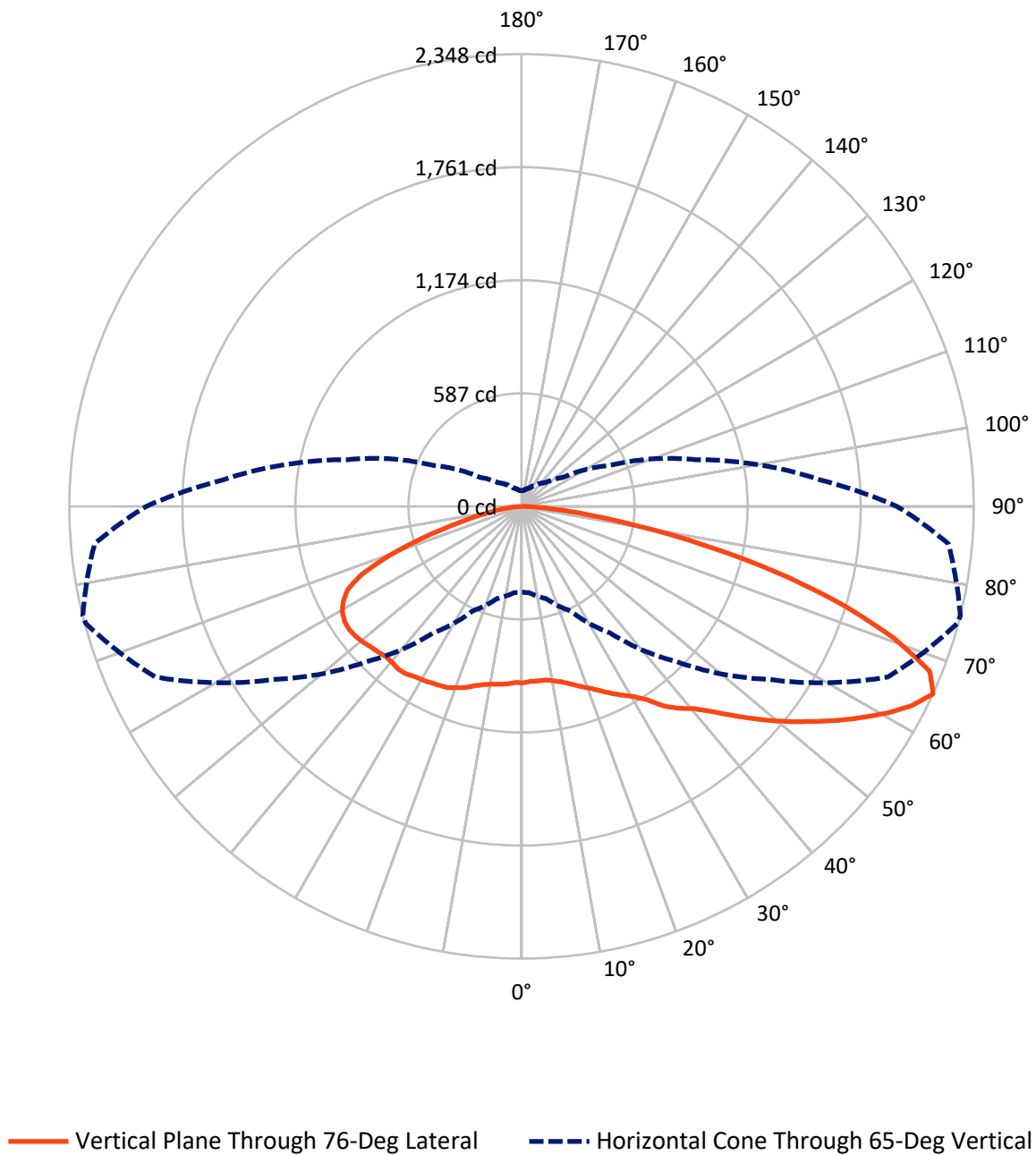
REPORT NUMBER: P#
CATALOG NUMBER: ARCH4-110-AMB-U-T2U-PFS



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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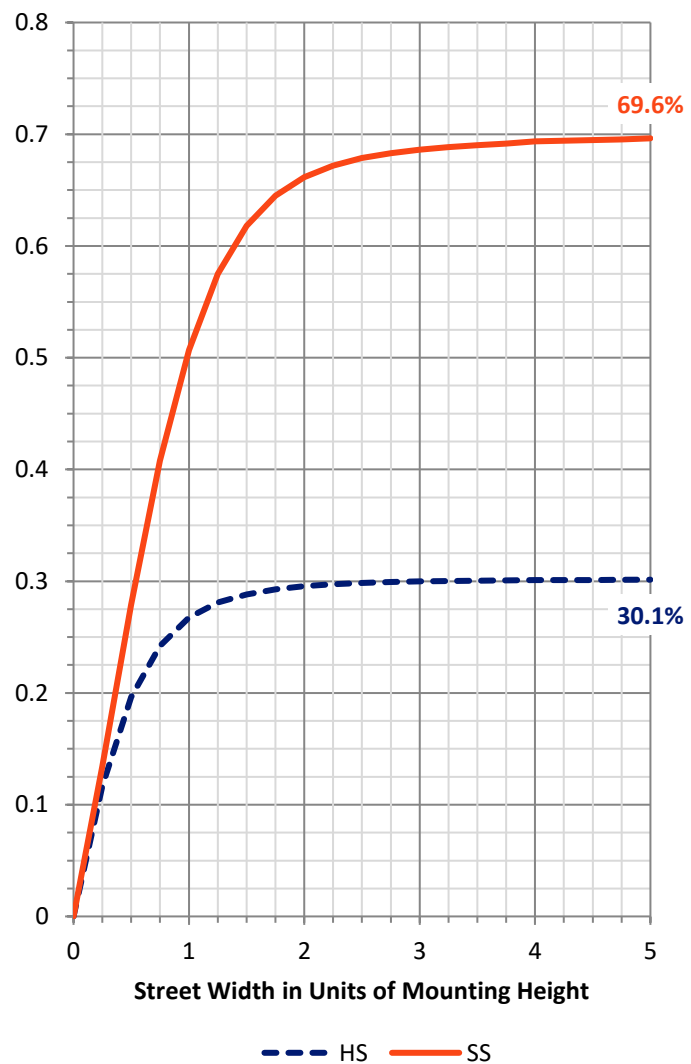
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.6	0.0	1404.6
	% Fixture	30.3	0.0	30.3
Street Side	Lumens	3224.4	0.0	3224.4
	% Fixture	69.7	0.0	69.7
Total	Lumens	4629.0	0.0	4629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.9
10°-20°	280.1	6.1
20°-30°	494.1	10.7
30°-40°	687.7	14.9
40°-50°	852.4	18.4
50°-60°	920.0	19.9
60°-70°	836.3	18.1
70°-80°	412.7	8.9
80°-90°	57.3	1.2
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°	4629.0	100.0
0°-180°	4629.0	100.0

Coefficient of Utilization



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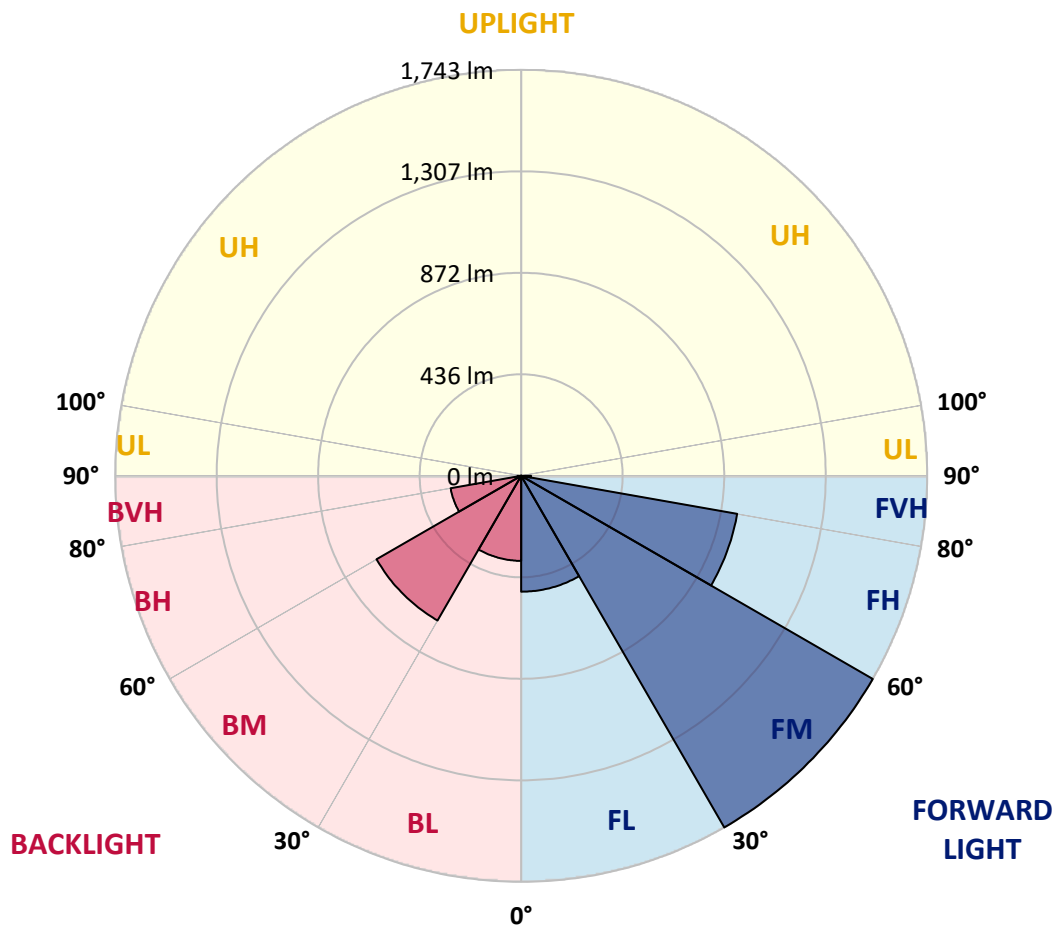
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.6	10.7			
FM	(30°-60°)	1743.0	37.7			
FH	(60°-80°)	941.4	20.3			G1/1800
FVH	(80°-90°)	42.4	0.9			G1/100
BL	(0°-30°)	365.0	7.9	B1/500		
BM	(30°-60°)	717.1	15.5	B1/1000		
BH	(60°-80°)	307.6	6.6	B1/500		G1/500
BVH	(80°-90°)	14.9	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
2.5°	905.3	905.3	910.5	905.3	905.3	905.3	905.3	905.3	905.3	910.5	915.6
5°	920.7	920.7	920.7	915.6	910.5	910.5	910.5	905.3	905.3	910.5	915.6
7.5°	956.5	956.5	956.5	946.3	930.9	920.7	915.6	915.6	910.5	910.5	920.7
10°	1023.0	1017.9	1012.8	992.3	971.8	946.3	936.0	925.8	920.7	920.7	925.8
12.5°	1115.1	1109.9	1094.6	1069.0	1028.1	992.3	966.7	946.3	936.0	936.0	941.1
15°	1212.2	1217.4	1196.9	1156.0	1104.8	1048.6	1002.5	971.8	956.5	956.5	966.7
17.5°	1324.8	1324.8	1304.3	1258.3	1186.7	1115.1	1053.7	1007.6	982.1	982.1	987.2
20°	1386.1	1381.0	1370.8	1335.0	1278.7	1191.8	1109.9	1043.4	1007.6	1007.6	1007.6
22.5°	1432.2	1427.1	1421.9	1401.5	1345.2	1273.6	1171.3	1089.5	1038.3	1038.3	1033.2
25°	1452.6	1442.4	1447.5	1442.4	1416.8	1355.5	1253.2	1135.5	1074.1	1074.1	1063.9
27.5°	1468.0	1462.9	1473.1	1473.1	1452.6	1416.8	1329.9	1186.7	1115.1	1109.9	1094.6
30°	1488.4	1483.3	1493.6	1503.8	1493.6	1468.0	1386.1	1253.2	1156.0	1145.7	1130.4
32.5°	1498.7	1493.6	1508.9	1529.4	1524.2	1508.9	1437.3	1309.4	1212.2	1196.9	1176.4
35°	1514.0	1508.9	1519.1	1549.8	1554.9	1544.7	1488.4	1370.8	1283.8	1273.6	1237.8
37.5°	1529.4	1524.2	1534.5	1570.3	1580.5	1580.5	1544.7	1437.3	1340.1	1329.9	1289.0
40°	1524.2	1524.2	1560.0	1590.7	1595.9	1606.1	1601.0	1503.8	1391.3	1381.0	1335.0
42.5°	1554.9	1570.3	1606.1	1606.1	1595.9	1616.3	1636.8	1565.2	1473.1	1457.8	1401.5
45°	1493.6	1488.4	1549.8	1585.6	1580.5	1621.4	1682.8	1641.9	1565.2	1549.8	1473.1
47.5°	1427.1	1416.8	1447.5	1514.0	1544.7	1621.4	1723.7	1734.0	1667.5	1652.1	1554.9
50°	1278.7	1278.7	1365.7	1442.4	1498.7	1621.4	1759.5	1826.0	1769.8	1754.4	1641.9
52.5°	1099.7	1099.7	1176.4	1355.5	1447.5	1601.0	1790.2	1913.0	1872.1	1856.7	1728.8
55°	971.8	987.2	1069.0	1196.9	1370.8	1549.8	1805.6	1994.8	1979.5	1964.1	1831.1
57.5°	823.5	844.0	925.8	1043.4	1263.4	1462.9	1795.3	2066.4	2086.9	2071.5	1938.6
60°	680.3	695.6	757.0	895.1	1130.4	1381.0	1749.3	2117.6	2189.2	2179.0	2066.4
62.5°	557.5	567.8	618.9	741.7	966.7	1268.5	1672.6	2138.0	2281.3	2276.1	2168.7
65°	445.0	450.1	496.1	598.4	803.0	1140.6	1565.2	2097.1	2342.6	2347.7	2225.0
67.5°	337.6	342.7	393.8	465.5	644.5	966.7	1437.3	1979.5	2271.0	2286.4	2086.9
70°	230.2	235.3	296.7	363.2	491.0	757.0	1227.6	1734.0	2035.7	2051.1	1769.8
72.5°	163.7	168.8	225.1	286.4	373.4	557.5	930.9	1452.6	1739.1	1739.1	1437.3
75°	122.8	122.8	158.6	219.9	281.3	373.4	618.9	1109.9	1375.9	1370.8	1084.4
77.5°	81.8	87.0	102.3	148.3	189.3	250.6	378.5	757.0	997.4	971.8	762.1
80°	51.1	56.3	61.4	97.2	112.5	138.1	204.6	399.0	613.8	598.4	470.6
82.5°	25.6	25.6	30.7	46.0	56.3	76.7	107.4	204.6	337.6	332.5	286.4
85°	5.1	5.1	10.2	10.2	20.5	30.7	51.1	81.8	148.3	148.3	133.0
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	10.2	10.2	15.3	20.5	15.3
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°	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
2.5°	915.6	910.5	915.6	915.6	920.7	925.8	925.8	925.8	930.9	930.9	930.9
5°	915.6	915.6	925.8	925.8	930.9	930.9	930.9	930.9	930.9	936.0	936.0
7.5°	920.7	920.7	930.9	930.9	930.9	925.8	920.7	915.6	915.6	915.6	915.6
10°	930.9	930.9	936.0	930.9	925.8	910.5	900.2	890.0	879.8	879.8	884.9
12.5°	941.1	941.1	946.3	930.9	915.6	895.1	874.7	859.3	854.2	854.2	854.2
15°	966.7	961.6	961.6	936.0	910.5	879.8	859.3	844.0	833.7	833.7	833.7
17.5°	992.3	987.2	982.1	941.1	900.2	864.4	844.0	828.6	818.4	818.4	818.4
20°	1012.8	1012.8	997.4	941.1	895.1	854.2	828.6	813.3	797.9	792.8	792.8
22.5°	1038.3	1038.3	1012.8	941.1	884.9	838.8	813.3	782.6	762.1	751.9	751.9
25°	1069.0	1058.8	1017.9	936.0	869.5	823.5	782.6	741.7	705.9	690.5	690.5
27.5°	1094.6	1079.2	1023.0	925.8	854.2	797.9	746.8	685.4	644.5	629.1	629.1
30°	1125.3	1109.9	1028.1	915.6	833.7	757.0	685.4	629.1	593.3	583.1	583.1
32.5°	1166.2	1135.5	1033.2	905.3	803.0	705.9	629.1	583.1	552.4	537.1	532.0
35°	1217.4	1166.2	1043.4	900.2	767.2	644.5	578.0	542.2	506.4	491.0	491.0
37.5°	1268.5	1207.1	1043.4	869.5	726.3	593.3	542.2	496.1	470.6	455.2	455.2
40°	1304.3	1222.5	1033.2	838.8	675.2	552.4	491.0	455.2	439.9	434.8	434.8
42.5°	1350.3	1258.3	1028.1	813.3	624.0	511.5	450.1	424.5	414.3	404.1	404.1
45°	1406.6	1304.3	1033.2	787.7	588.2	465.5	409.2	388.7	378.5	363.2	363.2
47.5°	1478.2	1355.5	1038.3	762.1	552.4	424.5	373.4	347.8	322.2	306.9	301.8
50°	1544.7	1401.5	1048.6	726.3	506.4	388.7	332.5	296.7	266.0	245.5	240.4
52.5°	1621.4	1457.8	1053.7	685.4	465.5	352.9	286.4	240.4	214.8	194.4	194.4
55°	1708.4	1514.0	1053.7	649.6	424.5	312.0	240.4	194.4	179.0	173.9	168.8
57.5°	1800.5	1560.0	1043.4	608.7	388.7	276.2	204.6	173.9	158.6	153.4	153.4
60°	1887.4	1590.7	1023.0	567.8	358.0	230.2	179.0	153.4	143.2	138.1	133.0
62.5°	1953.9	1595.9	987.2	537.1	312.0	199.5	158.6	133.0	117.6	112.5	112.5
65°	1948.8	1560.0	936.0	501.3	260.9	173.9	138.1	107.4	92.1	81.8	81.8
67.5°	1790.2	1437.3	838.8	439.9	214.8	153.4	112.5	81.8	71.6	61.4	61.4
70°	1519.1	1242.9	680.3	317.1	184.1	122.8	87.0	61.4	46.0	35.8	35.8
72.5°	1242.9	1038.3	501.3	219.9	138.1	92.1	61.4	40.9	30.7	25.6	25.6
75°	941.1	782.6	337.6	158.6	97.2	56.3	40.9	30.7	20.5	15.3	15.3
77.5°	680.3	537.1	225.1	112.5	61.4	35.8	30.7	20.5	10.2	5.1	5.1
80°	434.8	332.5	143.2	71.6	35.8	20.5	15.3	10.2	5.1	0.0	0.0
82.5°	266.0	199.5	92.1	46.0	20.5	10.2	10.2	5.1	5.1	0.0	0.0
85°	122.8	107.4	56.3	20.5	10.2	5.1	5.1	5.1	0.0	0.0	0.0
87.5°	20.5	20.5	10.2	5.1	5.1	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)