

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-T3-HSS**

Issue Date: 12/16/2024

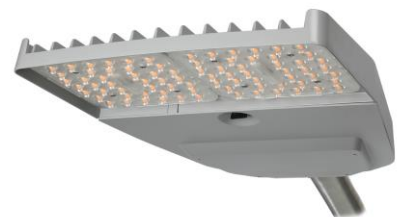
Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-8)
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-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 600mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

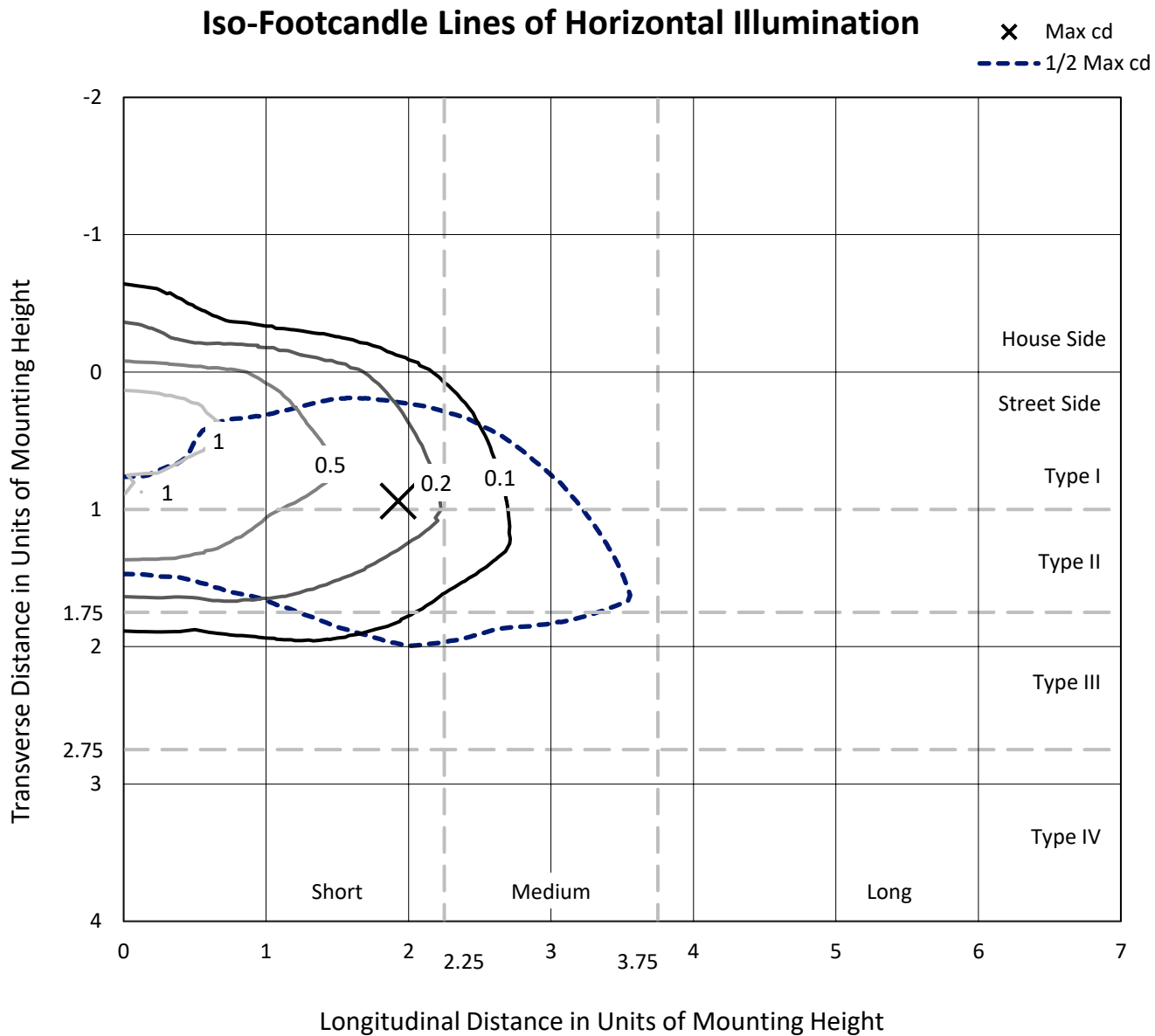
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3305 lumens
Efficiency: N/A
Efficacy: 29.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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

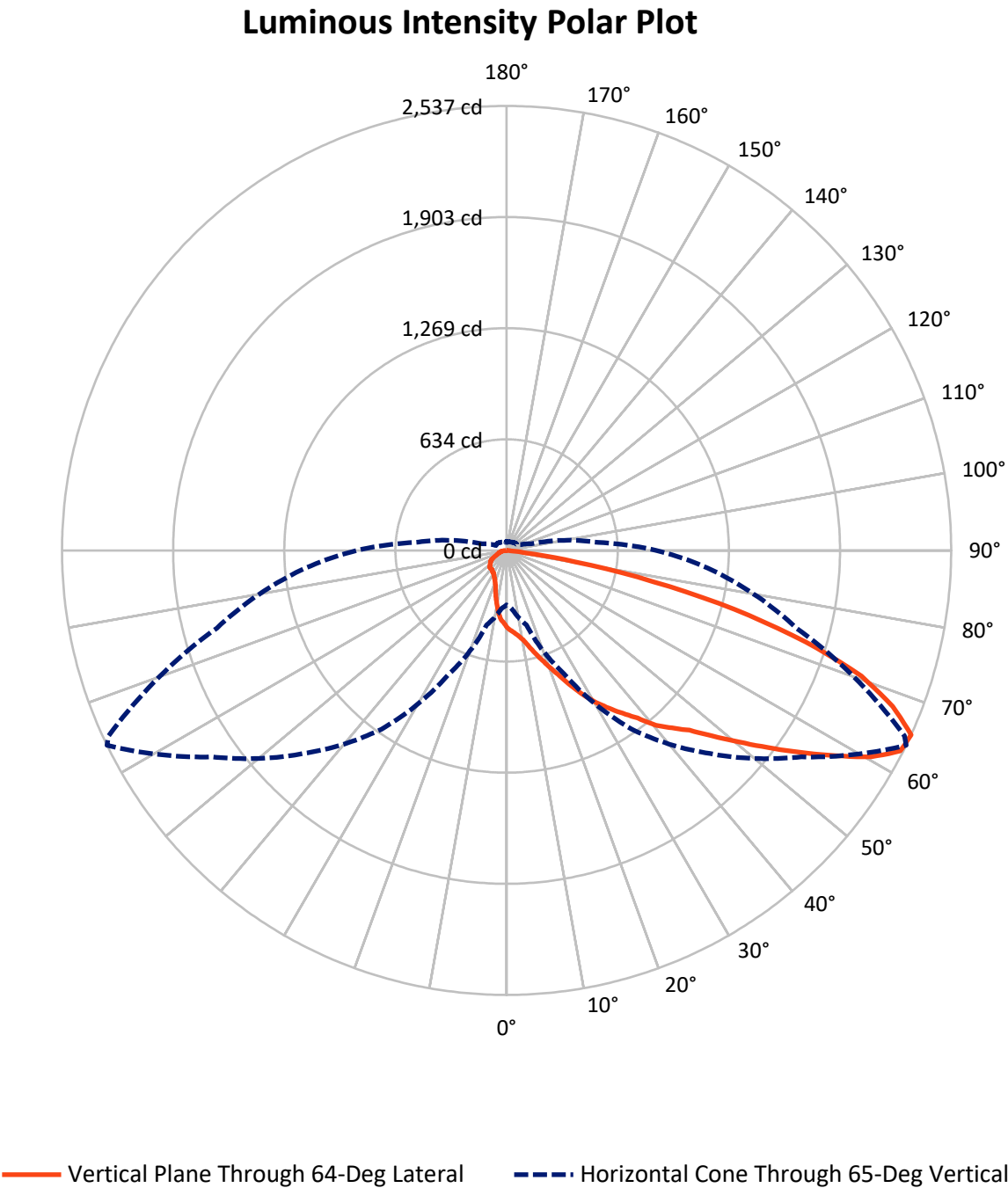


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Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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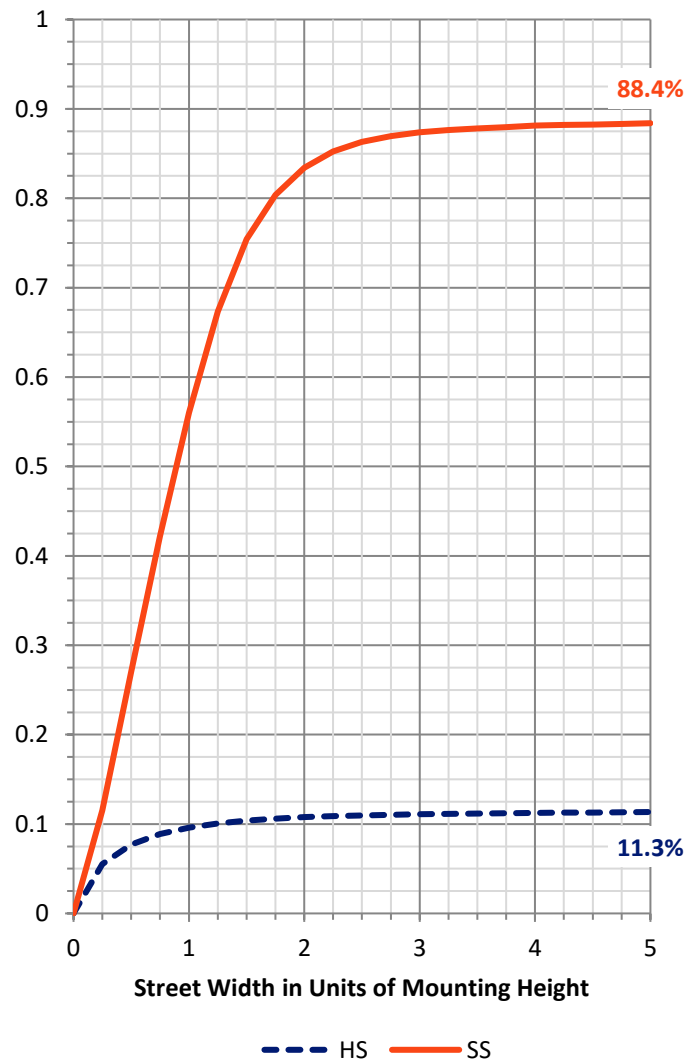
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	379.3	0.0	379.3
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	2925.7	0.0	2925.7
	% Fixture	88.5	0.0	88.5
Total	Lumens	3305.0	0.0	3305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	1.3
10°-20°	142.5	4.3
20°-30°	260.6	7.9
30°-40°	403.3	12.2
40°-50°	611.9	18.5
50°-60°	781.1	23.6
60°-70°	700.1	21.2
70°-80°	329.1	10.0
80°-90°	34.8	1.1
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°	3305.0	100.0
0°-180°	3305.0	100.0

Coefficient of Utilization



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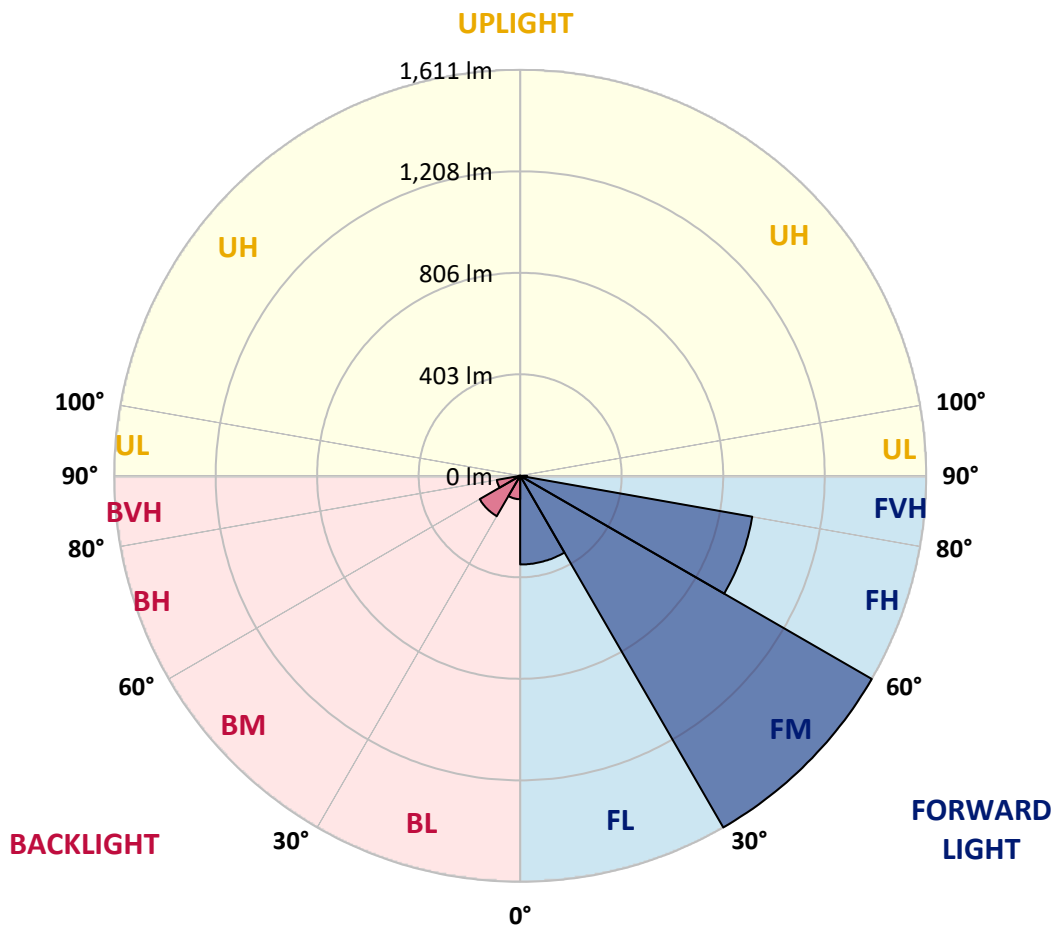
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.8	10.6			
FM	(30°-60°)	1611.2	48.8			
FH	(60°-80°)	935.2	28.3			G1/1800
FVH	(80°-90°)	27.6	0.8			G1/100
BL	(0°-30°)	92.8	2.8	B0/110		
BM	(30°-60°)	185.2	5.6	B0/220		
BH	(60°-80°)	94.1	2.8	B0/110		G0/110
BVH	(80°-90°)	7.2	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0
2.5°	472.2	477.3	477.3	472.2	467.0	461.8	456.6	456.6	451.4	446.2	441.0
5°	534.4	529.2	529.2	524.0	508.5	492.9	482.5	472.2	467.0	456.6	451.4
7.5°	638.2	638.2	627.8	607.1	575.9	544.8	518.8	492.9	487.7	472.2	456.6
10°	778.3	773.1	762.7	726.4	669.3	617.4	560.4	518.8	513.7	482.5	461.8
12.5°	913.2	902.8	887.2	856.1	783.5	705.6	622.6	560.4	550.0	498.1	472.2
15°	996.2	985.8	980.6	954.7	897.6	809.4	695.3	607.1	591.5	524.0	482.5
17.5°	1027.3	1022.1	1032.5	1027.3	985.8	913.2	783.5	658.9	638.2	544.8	498.1
20°	1027.3	1022.1	1037.7	1048.1	1048.1	991.0	871.7	716.0	695.3	570.7	513.7
22.5°	1022.1	1016.9	1032.5	1053.3	1074.0	1058.4	954.7	778.3	757.5	601.9	529.2
25°	1032.5	1027.3	1042.9	1058.4	1089.6	1100.0	1027.3	856.1	825.0	643.4	555.2
27.5°	1063.6	1058.4	1068.8	1079.2	1110.3	1136.3	1089.6	933.9	902.8	684.9	581.1
30°	1105.1	1100.0	1105.1	1105.1	1146.7	1167.4	1136.3	1006.6	980.6	726.4	612.2
32.5°	1157.0	1157.0	1162.2	1146.7	1183.0	1198.5	1188.2	1074.0	1048.1	783.5	648.6
35°	1188.2	1188.2	1203.7	1198.5	1214.1	1245.2	1255.6	1141.5	1120.7	850.9	700.4
37.5°	1234.9	1229.7	1240.0	1229.7	1245.2	1286.7	1328.3	1214.1	1188.2	928.7	752.3
40°	1411.3	1400.9	1385.3	1307.5	1286.7	1338.6	1400.9	1312.7	1286.7	1011.8	809.4
42.5°	1556.5	1556.5	1530.6	1432.0	1364.6	1395.7	1483.9	1385.3	1359.4	1058.4	840.5
45°	1629.2	1608.4	1598.1	1520.2	1515.0	1458.0	1566.9	1463.2	1437.2	1131.1	897.6
47.5°	1712.2	1681.1	1639.6	1598.1	1639.6	1546.2	1660.3	1582.5	1541.0	1203.7	959.9
50°	1748.5	1717.4	1707.0	1675.9	1712.2	1639.6	1748.5	1717.4	1681.1	1291.9	1027.3
52.5°	1675.9	1670.7	1707.0	1722.6	1717.4	1691.4	1836.7	1867.9	1831.5	1369.8	1094.8
55°	1380.1	1400.9	1561.7	1691.4	1717.4	1722.6	1919.7	2033.9	1992.4	1458.0	1146.7
57.5°	980.6	1011.8	1188.2	1577.3	1691.4	1753.7	2018.3	2210.3	2168.8	1551.4	1183.0
60°	742.0	747.1	845.7	1323.1	1618.8	1769.3	2096.1	2391.9	2345.2	1629.2	1193.4
62.5°	581.1	601.9	674.5	996.2	1452.8	1738.1	2137.7	2521.6	2480.1	1681.1	1177.8
65°	311.3	332.1	441.0	778.3	1245.2	1639.6	2054.6	2537.2	2506.0	1712.2	1151.8
67.5°	181.6	186.8	228.3	544.8	1063.6	1494.3	1888.6	2376.3	2376.3	1665.5	1084.4
70°	119.3	124.5	140.1	290.6	819.8	1302.3	1624.0	2148.0	2174.0	1494.3	965.1
72.5°	93.4	98.6	103.8	166.0	529.2	1027.3	1297.1	1784.8	1826.3	1260.8	747.1
75°	77.8	77.8	83.0	114.1	306.1	591.5	965.1	1343.8	1395.7	933.9	544.8
77.5°	57.1	62.3	67.5	77.8	140.1	264.6	565.5	856.1	897.6	658.9	404.7
80°	41.5	46.7	51.9	57.1	72.6	114.1	259.4	394.3	441.0	394.3	254.2
82.5°	25.9	31.1	36.3	36.3	41.5	51.9	103.8	103.8	114.1	176.4	134.9
85°	15.6	15.6	15.6	20.8	20.8	20.8	41.5	20.8	20.8	46.7	51.9
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	10.4	5.2	5.2	5.2	10.4
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°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0
2.5°	441.0	435.8	425.5	415.1	409.9	404.7	399.5	389.1	389.1	389.1	383.9
5°	446.2	435.8	420.3	399.5	378.8	358.0	337.3	316.5	311.3	306.1	300.9
7.5°	446.2	435.8	404.7	368.4	326.9	295.7	264.6	243.9	238.7	233.5	233.5
10°	451.4	430.6	389.1	326.9	275.0	233.5	212.7	202.4	197.2	197.2	197.2
12.5°	456.6	435.8	368.4	290.6	228.3	202.4	186.8	181.6	181.6	181.6	181.6
15°	467.0	435.8	347.6	254.2	202.4	181.6	171.2	171.2	171.2	171.2	171.2
17.5°	472.2	435.8	321.7	217.9	181.6	171.2	166.0	160.8	160.8	160.8	160.8
20°	482.5	435.8	295.7	197.2	166.0	160.8	155.7	150.5	150.5	150.5	150.5
22.5°	498.1	441.0	269.8	181.6	160.8	150.5	145.3	140.1	140.1	140.1	140.1
25°	513.7	446.2	249.0	171.2	150.5	140.1	134.9	134.9	129.7	129.7	134.9
27.5°	534.4	451.4	233.5	160.8	140.1	134.9	124.5	124.5	124.5	124.5	124.5
30°	555.2	451.4	217.9	150.5	134.9	124.5	114.1	114.1	114.1	114.1	114.1
32.5°	586.3	461.8	212.7	150.5	124.5	114.1	109.0	109.0	103.8	103.8	103.8
35°	622.6	477.3	207.5	145.3	119.3	109.0	103.8	98.6	98.6	98.6	98.6
37.5°	669.3	508.5	212.7	140.1	114.1	103.8	98.6	93.4	93.4	93.4	93.4
40°	721.2	534.4	217.9	140.1	109.0	98.6	93.4	88.2	88.2	88.2	88.2
42.5°	731.6	508.5	217.9	140.1	109.0	93.4	88.2	88.2	88.2	88.2	88.2
45°	767.9	513.7	212.7	140.1	103.8	93.4	88.2	83.0	83.0	83.0	83.0
47.5°	814.6	524.0	207.5	134.9	103.8	88.2	83.0	77.8	77.8	77.8	83.0
50°	856.1	534.4	202.4	124.5	103.8	88.2	83.0	77.8	77.8	77.8	77.8
52.5°	897.6	539.6	197.2	119.3	98.6	83.0	77.8	72.6	72.6	72.6	72.6
55°	923.5	544.8	192.0	114.1	98.6	77.8	72.6	72.6	67.5	67.5	67.5
57.5°	939.1	544.8	186.8	109.0	88.2	72.6	72.6	67.5	62.3	62.3	62.3
60°	933.9	550.0	176.4	98.6	77.8	72.6	67.5	62.3	57.1	57.1	57.1
62.5°	897.6	539.6	166.0	83.0	72.6	67.5	62.3	57.1	57.1	51.9	57.1
65°	856.1	524.0	145.3	67.5	67.5	62.3	57.1	51.9	51.9	46.7	51.9
67.5°	762.7	467.0	114.1	57.1	62.3	57.1	51.9	46.7	46.7	41.5	41.5
70°	653.7	389.1	83.0	51.9	57.1	51.9	46.7	41.5	41.5	36.3	36.3
72.5°	518.8	300.9	57.1	46.7	46.7	41.5	41.5	36.3	36.3	31.1	36.3
75°	399.5	197.2	46.7	41.5	41.5	36.3	36.3	31.1	31.1	31.1	31.1
77.5°	264.6	98.6	36.3	36.3	36.3	31.1	25.9	25.9	25.9	25.9	25.9
80°	129.7	46.7	25.9	31.1	31.1	25.9	20.8	20.8	20.8	20.8	20.8
82.5°	62.3	25.9	20.8	25.9	20.8	15.6	15.6	15.6	15.6	15.6	15.6
85°	25.9	10.4	15.6	15.6	15.6	10.4	10.4	15.6	10.4	15.6	15.6
87.5°	10.4	5.2	5.2	5.2	10.4	5.2	5.2	5.2	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)