

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: STREETWORKS

Report Number: P800008

Luminaire Tested: **ARCH2-70-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

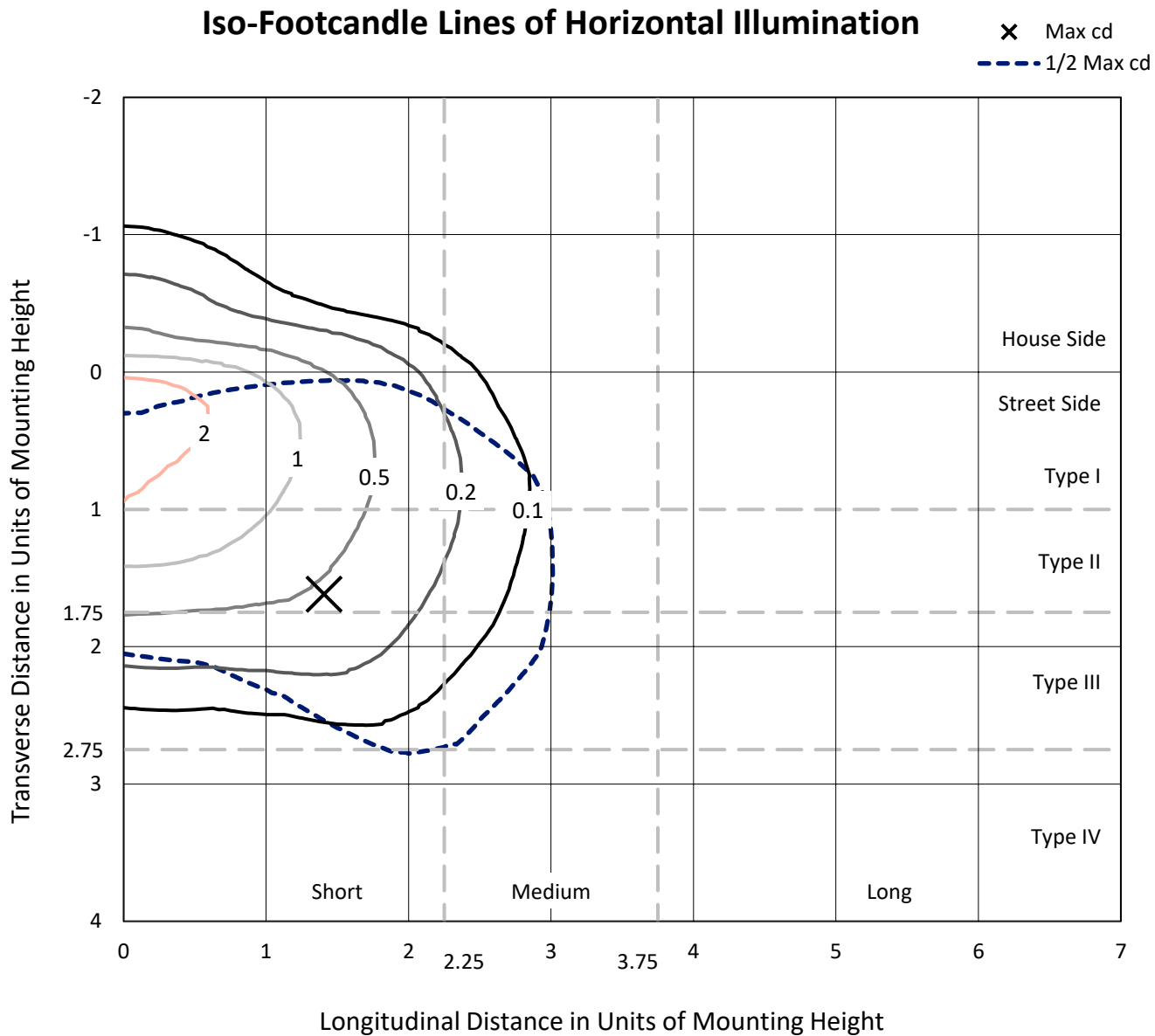
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6652 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.6
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



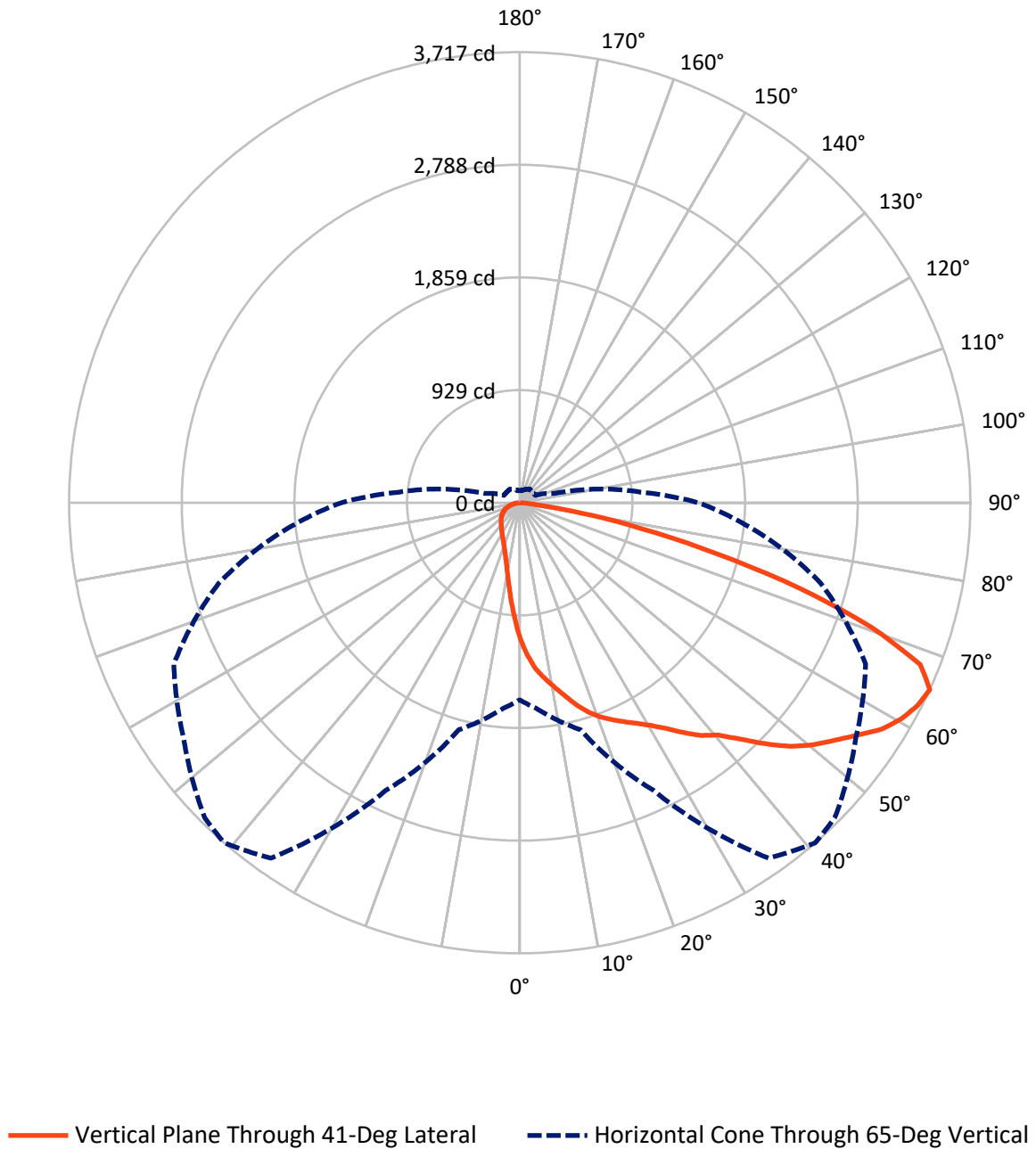
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Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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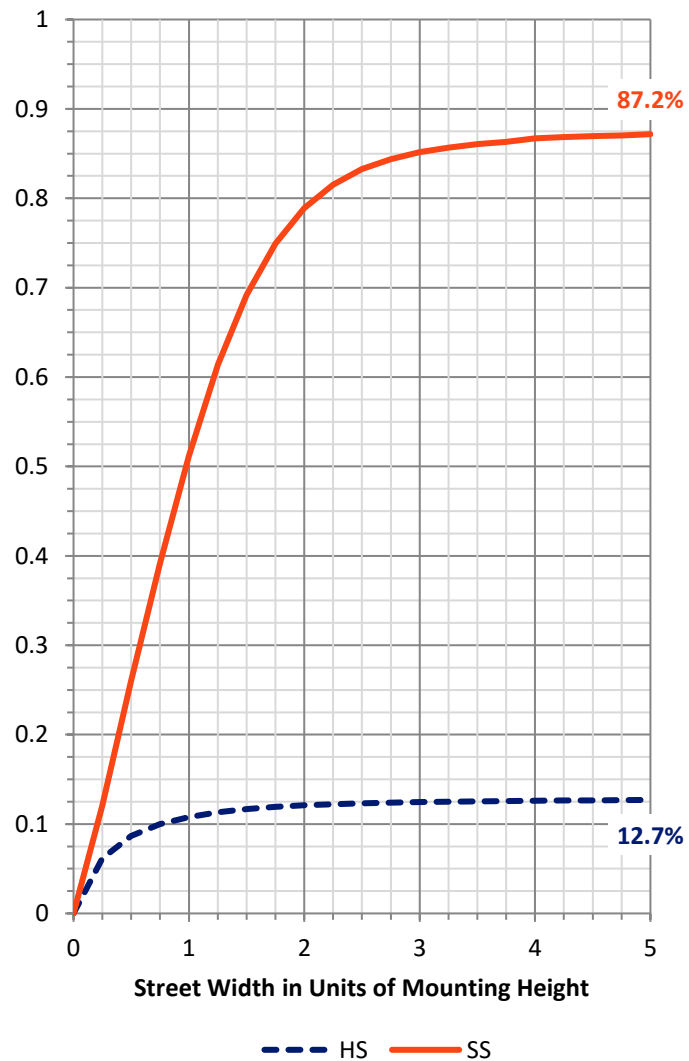
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.0	0.0	854.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5798.0	0.0	5798.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	6652.0	0.0	6652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	1.6
10°-20°	316.7	4.8
20°-30°	544.8	8.2
30°-40°	826.3	12.4
40°-50°	1210.5	18.2
50°-60°	1528.6	23.0
60°-70°	1433.4	21.5
70°-80°	638.8	9.6
80°-90°	47.3	0.7
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°	6652.0	100.0
0°-180°	6652.0	100.0

Coefficient of Utilization



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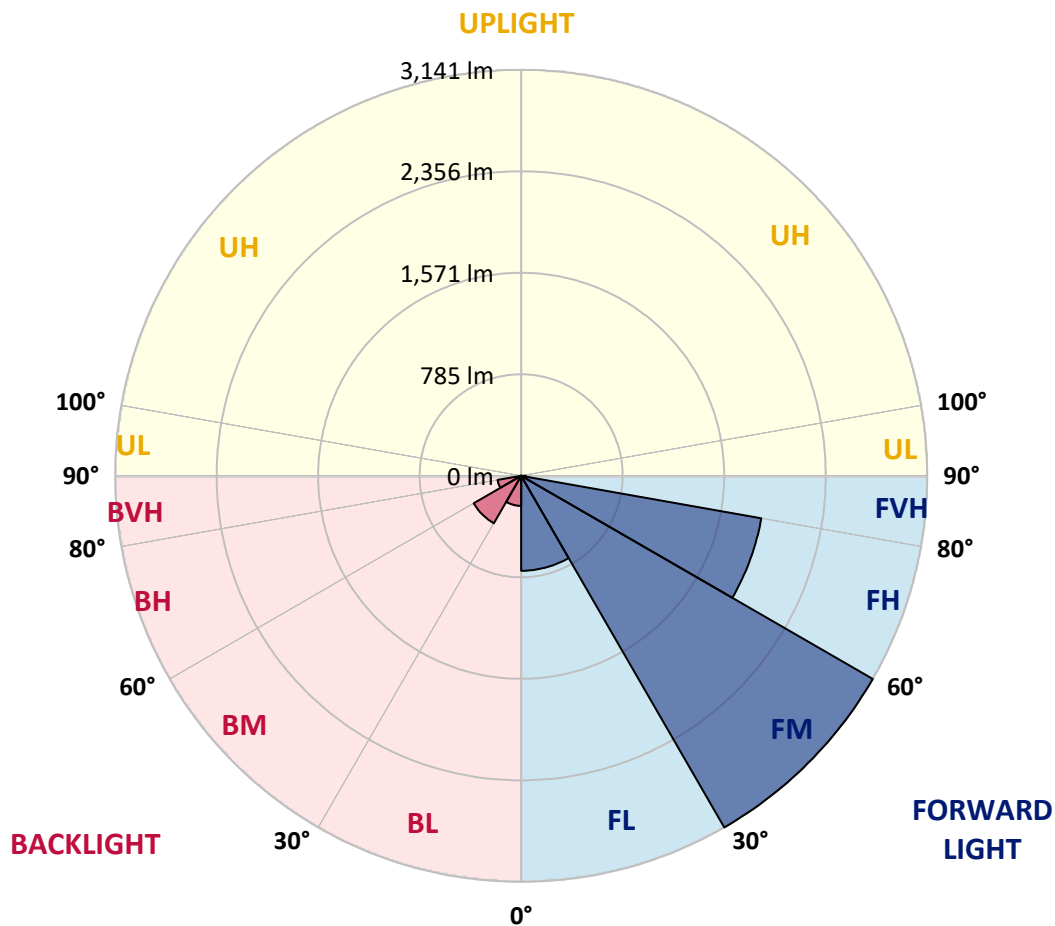
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.6	11.0			
FM	(30°-60°)	3141.3	47.2			
FH	(60°-80°)	1886.7	28.4			G2/5000
FVH	(80°-90°)	35.3	0.5			G1/100
BL	(0°-30°)	232.5	3.5	B1/500		
BM	(30°-60°)	424.1	6.4	B1/1000		
BH	(60°-80°)	185.5	2.8	B1/500		G1/500
BVH	(80°-90°)	12.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5
2.5°	1307.4	1303.2	1300.4	1285.0	1285.0	1263.9	1265.3	1245.7	1221.8	1184.0	1143.3
5°	1430.9	1425.2	1418.2	1402.8	1397.2	1376.2	1373.3	1345.3	1304.6	1238.7	1165.7
7.5°	1538.9	1533.3	1523.4	1501.0	1485.6	1460.3	1453.3	1416.8	1371.9	1290.6	1188.2
10°	1637.1	1632.9	1620.2	1592.2	1571.1	1540.3	1527.7	1478.6	1422.4	1332.7	1206.4
12.5°	1736.7	1731.1	1714.2	1690.4	1665.1	1628.7	1613.2	1550.1	1478.6	1379.0	1233.1
15°	1829.3	1820.8	1808.2	1783.0	1760.5	1725.4	1708.6	1634.3	1547.3	1430.9	1268.1
17.5°	1889.6	1882.6	1871.3	1857.3	1839.1	1812.4	1795.6	1722.6	1616.0	1481.4	1304.6
20°	1926.1	1923.2	1919.0	1910.6	1902.2	1884.0	1871.3	1802.6	1690.4	1530.5	1339.7
22.5°	1954.1	1951.3	1949.9	1949.9	1951.3	1944.3	1935.9	1877.0	1761.9	1582.4	1371.9
25°	1997.6	1996.2	1993.4	1990.6	2000.4	2001.8	1999.0	1958.3	1851.7	1651.1	1412.6
27.5°	2057.9	2053.7	2048.1	2045.3	2055.1	2062.1	2067.7	2039.7	1947.1	1721.2	1458.9
30°	2150.5	2137.9	2123.8	2114.0	2121.0	2132.3	2144.9	2128.1	2045.3	1808.2	1506.6
32.5°	2259.9	2244.5	2212.2	2194.0	2212.2	2220.6	2230.5	2222.0	2147.7	1902.2	1554.3
35°	2393.2	2374.9	2341.3	2314.6	2346.9	2328.7	2324.4	2316.0	2244.5	1994.8	1607.6
37.5°	2614.8	2588.2	2534.9	2475.9	2475.9	2436.7	2421.2	2396.0	2331.5	2077.6	1659.5
40°	2871.5	2836.5	2767.7	2680.8	2600.8	2519.4	2509.6	2491.4	2433.9	2172.9	1718.4
42.5°	3153.5	3086.2	2990.8	2885.6	2756.5	2663.9	2641.5	2589.6	2533.5	2269.7	1777.4
45°	3466.3	3326.0	3187.2	3133.9	2920.6	2836.5	2794.4	2700.4	2637.3	2370.7	1839.1
47.5°	3516.8	3407.4	3314.8	3306.4	3073.5	3003.4	2955.7	2821.0	2749.5	2478.8	1903.6
50°	3488.8	3422.8	3432.7	3399.0	3185.8	3139.5	3103.0	2950.1	2860.3	2582.6	1962.5
52.5°	3370.9	3407.4	3463.5	3401.8	3292.4	3254.5	3236.3	3089.0	2964.1	2678.0	2015.8
55°	3230.7	3255.9	3376.6	3452.3	3415.8	3382.2	3365.3	3250.3	3066.5	2757.9	2064.9
57.5°	3025.8	3014.6	3147.9	3443.9	3544.9	3525.2	3507.0	3408.8	3161.9	2815.4	2095.8
60°	2718.6	2694.8	2863.1	3275.5	3587.0	3617.8	3609.4	3514.0	3234.9	2814.0	2083.2
62.5°	2187.0	2245.9	2478.8	3000.6	3605.2	3683.8	3668.3	3522.4	3258.7	2732.7	2003.2
65°	1625.9	1710.0	1938.7	2621.8	3580.0	3717.4	3675.3	3385.0	3147.9	2571.3	1827.9
67.5°	1171.3	1245.7	1412.6	2157.5	3337.3	3563.1	3514.0	3160.5	2892.6	2342.7	1585.2
70°	801.0	854.3	967.9	1571.1	2849.1	3080.6	3049.7	2825.2	2490.0	2070.5	1287.8
72.5°	565.3	587.8	660.7	1036.7	2164.5	2417.0	2380.6	2324.4	2000.4	1721.2	1001.6
75°	423.6	437.7	477.0	670.5	1460.3	1674.9	1641.3	1673.5	1494.0	1303.2	729.5
77.5°	159.9	173.9	270.7	427.9	864.1	1028.3	994.6	1014.2	830.5	657.9	363.3
80°	43.5	46.3	89.8	203.4	392.8	512.0	465.7	399.8	308.6	303.0	192.2
82.5°	18.2	21.0	40.7	109.4	140.3	140.3	117.8	145.9	117.8	141.7	92.6
85°	7.0	8.4	9.8	28.1	18.2	19.6	21.0	28.1	23.8	29.5	21.0
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	1.4	2.8	4.2	4.2	4.2
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°	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5	1133.5
2.5°	1126.5	1111.0	1088.6	1052.1	1014.2	993.2	966.5	962.3	934.3	931.5	920.2
5°	1133.5	1101.2	1043.7	973.5	904.8	851.5	812.2	791.2	750.5	750.5	739.3
7.5°	1139.1	1088.6	996.0	892.2	798.2	726.7	673.3	650.9	614.4	611.6	603.2
10°	1140.5	1073.1	944.1	809.4	694.4	621.4	569.5	544.3	512.0	509.2	503.6
12.5°	1151.7	1064.7	897.8	737.9	620.0	541.5	491.0	469.9	444.7	441.9	436.3
15°	1169.9	1064.7	858.5	677.6	554.1	481.2	437.7	418.0	399.8	397.0	394.2
17.5°	1188.2	1061.9	819.2	621.4	499.4	433.5	395.6	380.2	366.1	364.7	361.9
20°	1205.0	1060.5	780.0	573.7	457.3	394.2	364.7	350.7	339.5	339.5	338.1
22.5°	1221.8	1057.7	742.1	528.9	420.8	364.7	339.5	324.0	315.6	315.6	314.2
25°	1247.1	1057.7	707.0	491.0	391.4	342.3	317.0	305.8	298.8	297.4	297.4
27.5°	1276.6	1066.1	676.2	457.3	366.1	319.8	300.2	289.0	280.6	277.8	279.2
30°	1308.8	1073.1	648.1	427.9	342.3	303.0	282.0	270.7	262.3	259.5	260.9
32.5°	1341.1	1081.6	622.8	401.2	318.4	287.6	266.5	253.9	245.5	244.1	244.1
35°	1376.2	1090.0	597.6	378.8	298.8	272.1	252.5	238.5	232.9	230.1	231.5
37.5°	1411.2	1104.0	573.7	357.7	284.8	258.1	239.9	225.9	221.6	220.2	220.2
40°	1453.3	1125.0	563.9	343.7	272.1	245.5	230.1	216.0	211.8	211.8	211.8
42.5°	1488.4	1141.9	555.5	328.3	262.3	234.3	220.2	209.0	206.2	204.8	206.2
45°	1523.4	1157.3	544.3	314.2	249.7	223.0	211.8	200.6	197.8	197.8	197.8
47.5°	1558.5	1165.7	528.9	300.2	238.5	213.2	203.4	193.6	190.8	190.8	190.8
50°	1586.6	1172.7	506.4	284.8	225.9	204.8	195.0	185.2	182.4	182.4	182.4
52.5°	1614.6	1174.1	482.6	266.5	213.2	195.0	186.6	176.8	173.9	172.5	172.5
55°	1639.9	1172.7	454.5	245.5	199.2	183.8	176.8	168.3	162.7	157.1	159.9
57.5°	1658.1	1171.3	422.2	224.4	185.2	172.5	169.7	158.5	147.3	133.3	136.1
60°	1651.1	1155.9	387.2	197.8	169.7	161.3	161.3	145.9	126.3	119.2	120.6
62.5°	1606.2	1112.4	350.7	169.7	154.3	150.1	148.7	131.9	116.4	109.4	110.8
65°	1471.5	1003.0	297.4	144.5	138.9	137.5	137.5	122.0	108.0	99.6	101.0
67.5°	1266.7	841.7	242.7	122.0	123.4	126.3	126.3	112.2	98.2	89.8	91.2
70°	1015.6	657.9	193.6	105.2	106.6	110.8	113.6	101.0	88.4	80.0	80.0
72.5°	764.5	499.4	155.7	88.4	95.4	95.4	99.6	89.8	77.2	68.7	70.1
75°	554.1	357.7	123.4	74.3	82.8	81.4	81.4	75.8	65.9	60.3	60.3
77.5°	262.3	188.0	98.2	53.3	64.5	63.1	64.5	60.3	56.1	50.5	51.9
80°	129.1	92.6	63.1	37.9	44.9	46.3	50.5	47.7	46.3	42.1	42.1
82.5°	61.7	36.5	29.5	26.7	30.9	32.3	35.1	35.1	36.5	33.7	33.7
85°	16.8	9.8	12.6	16.8	19.6	21.0	23.8	25.3	25.3	23.8	25.3
87.5°	4.2	4.2	5.6	8.4	9.8	11.2	12.6	12.6	5.6	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)