

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: P836688

Luminaire Tested: **ARCH3-60-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7170 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.2
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



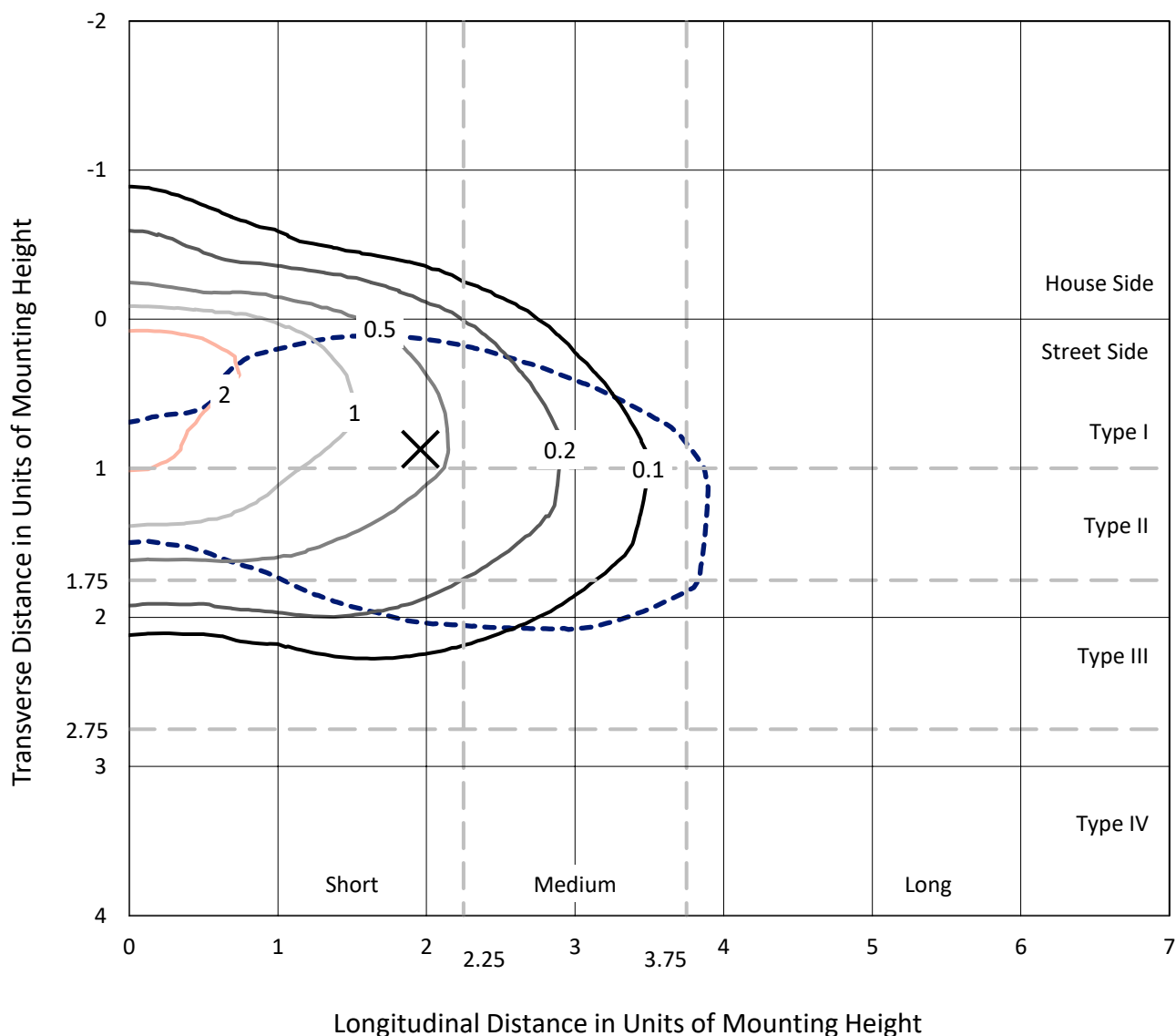
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



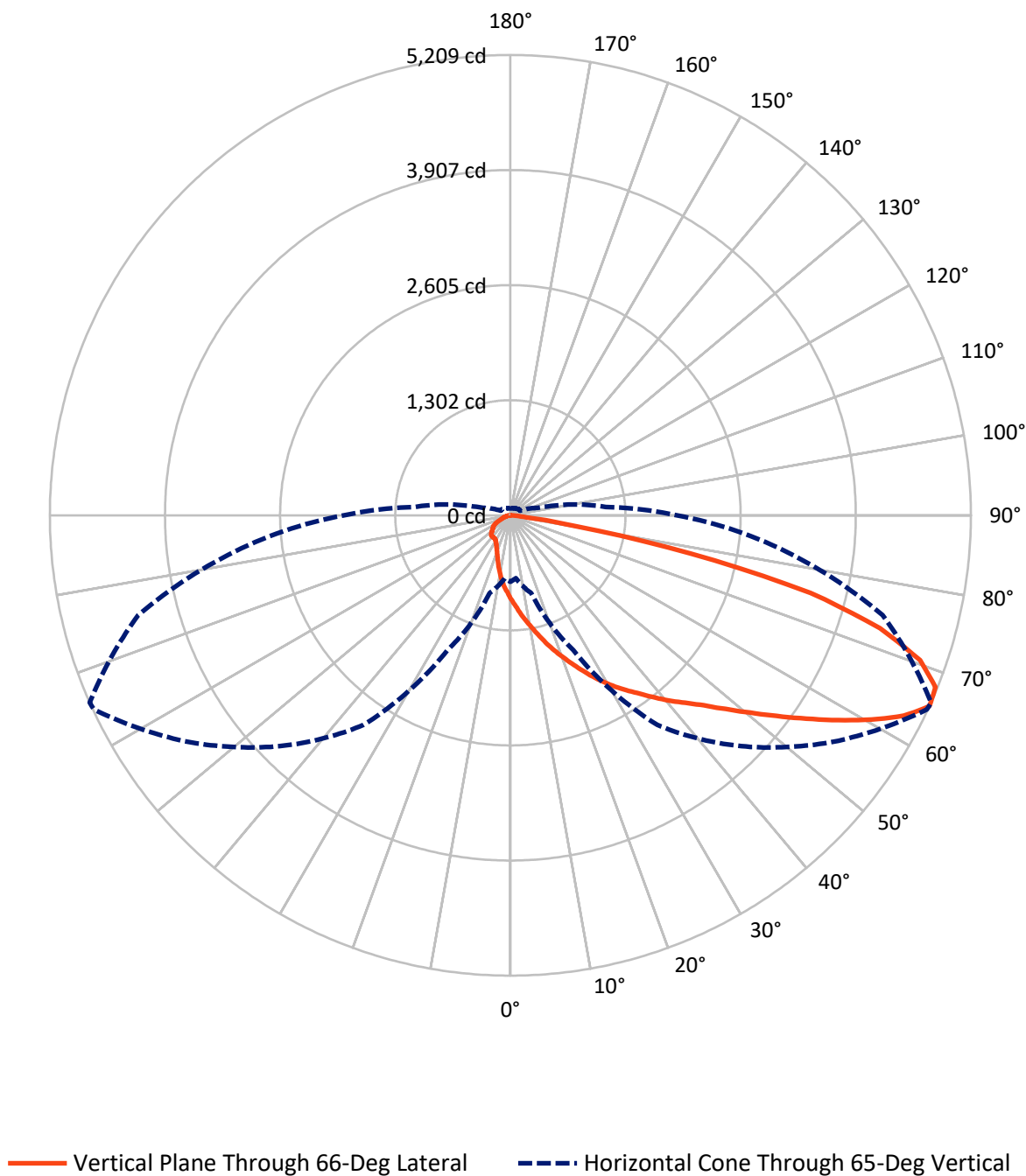
Based on 25 foot mounting height. Maximum calculated value = 2.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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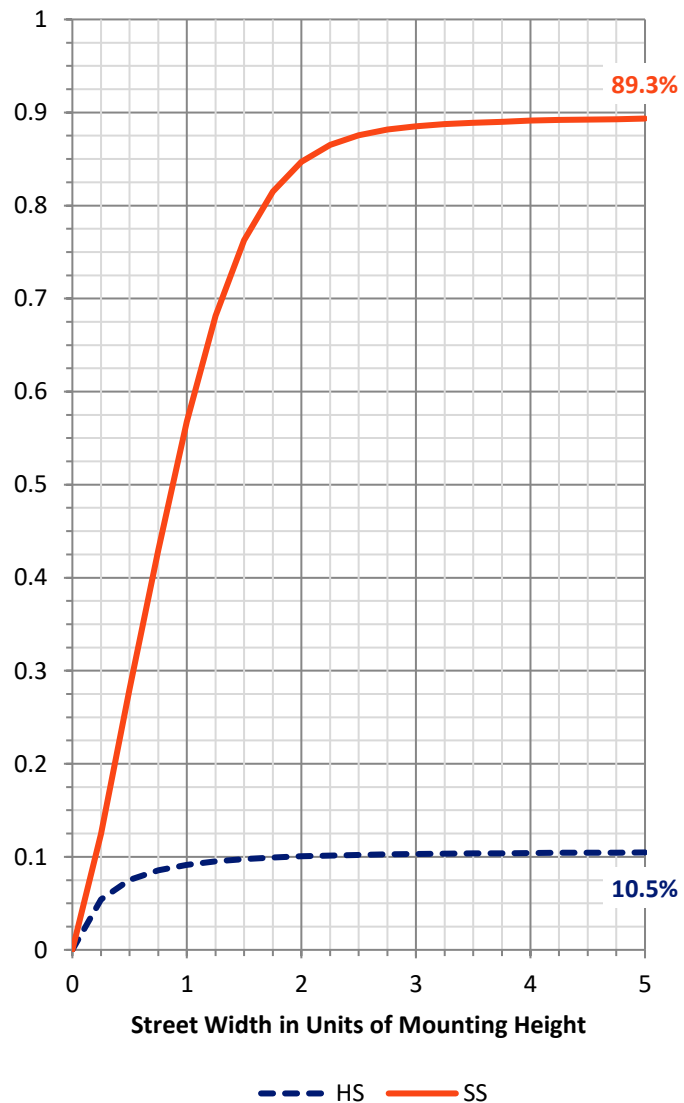
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.4	0.0	758.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6411.6	0.0	6411.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	7170.0	0.0	7170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.3
10°-20°	305.3	4.3
20°-30°	552.3	7.7
30°-40°	863.7	12.0
40°-50°	1310.2	18.3
50°-60°	1664.6	23.2
60°-70°	1555.4	21.7
70°-80°	773.0	10.8
80°-90°	51.9	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°	7170.0	100.0
0°-180°	7170.0	100.0

Coefficient of Utilization



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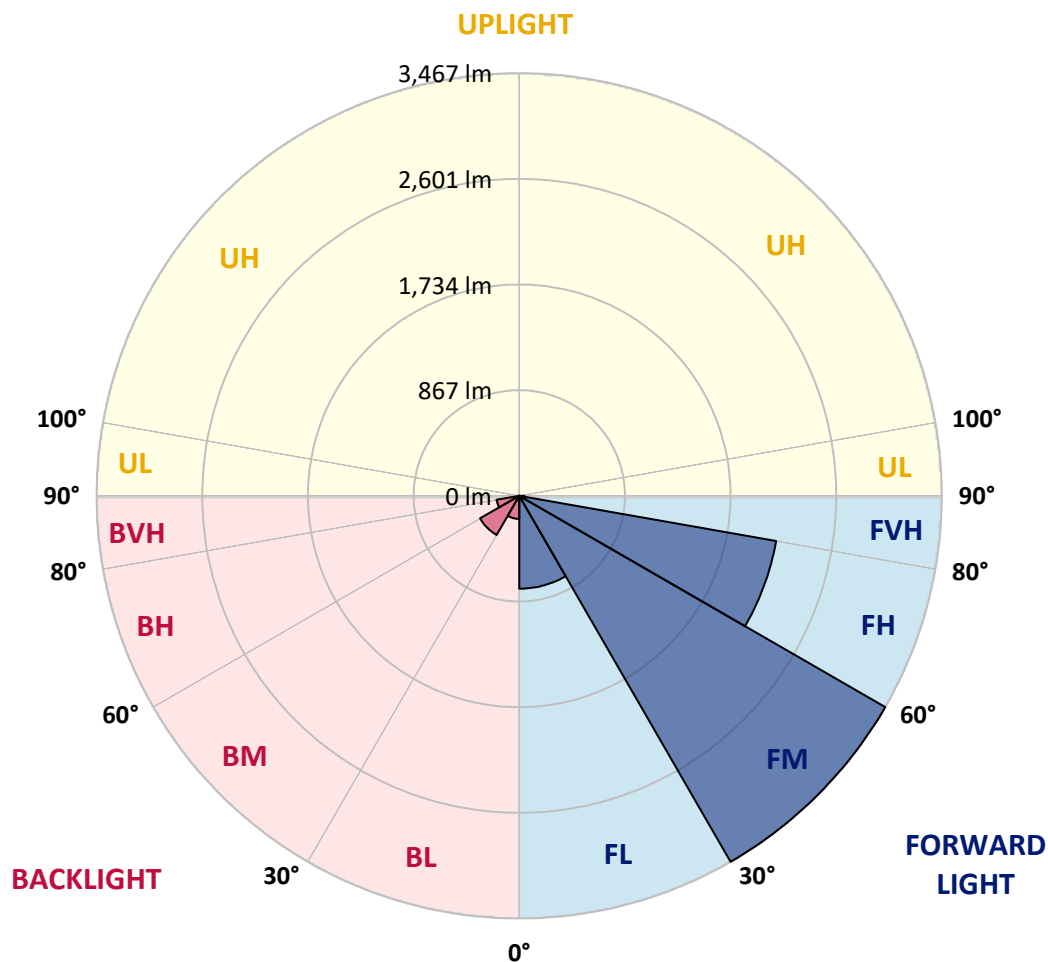
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.8	10.6			
FM	(30°-60°)	3467.5	48.4			
FH	(60°-80°)	2139.6	29.8			G2/5000
FVH	(80°-90°)	42.7	0.6			G1/100
BL	(0°-30°)	189.4	2.6	B1/500		
BM	(30°-60°)	370.9	5.2	B1/1000		
BH	(60°-80°)	188.9	2.6	B1/500		G1/500
BVH	(80°-90°)	9.2	0.1			G0/10
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°	45°	55°	65°	66°	75°	85°
0°	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9
2.5°	1108.3	1117.3	1121.8	1123.4	1088.8	1073.7	1058.7	1024.1	1016.6	997.0	971.5
5°	1303.8	1315.8	1312.8	1306.8	1264.7	1216.6	1177.5	1112.8	1102.3	1055.7	998.5
7.5°	1496.3	1506.8	1503.8	1481.3	1434.6	1367.0	1302.3	1207.6	1192.5	1117.3	1025.6
10°	1657.2	1666.2	1664.7	1642.2	1586.5	1503.8	1425.6	1299.3	1281.3	1174.5	1048.2
12.5°	1789.5	1801.6	1800.1	1785.0	1735.4	1645.2	1556.5	1404.6	1382.0	1243.7	1079.7
15°	1893.3	1908.3	1908.3	1902.3	1867.7	1792.6	1691.8	1520.4	1493.3	1323.4	1118.8
17.5°	1956.5	1968.5	1979.0	1989.6	1965.5	1908.3	1816.6	1636.2	1607.6	1401.6	1159.4
20°	1989.6	2001.6	2009.1	2031.7	2036.2	2007.6	1935.4	1750.4	1720.4	1490.3	1206.1
22.5°	2043.7	2054.2	2055.7	2075.3	2084.3	2091.8	2046.7	1863.2	1839.2	1588.0	1258.7
25°	2133.9	2146.0	2141.4	2150.5	2152.0	2161.0	2156.5	1992.6	1968.5	1699.3	1321.9
27.5°	2249.7	2264.8	2261.7	2252.7	2239.2	2231.7	2251.2	2123.4	2100.8	1810.6	1386.5
30°	2374.5	2392.6	2388.1	2370.0	2333.9	2302.3	2329.4	2246.7	2225.7	1924.9	1458.7
32.5°	2500.9	2521.9	2520.4	2490.3	2428.7	2374.5	2415.1	2362.5	2347.5	2048.2	1536.9
35°	2583.6	2610.6	2607.6	2589.6	2509.9	2463.3	2512.9	2481.3	2470.8	2198.6	1649.7
37.5°	2717.4	2746.0	2720.4	2675.3	2583.6	2559.5	2619.7	2615.1	2607.6	2358.0	1768.5
40°	3042.2	3084.3	3016.7	2831.7	2681.3	2660.3	2746.0	2764.0	2756.5	2515.9	1875.3
42.5°	3382.1	3445.3	3340.0	3084.3	2858.8	2782.1	2884.3	2909.9	2900.9	2651.2	1971.5
45°	3588.1	3615.2	3509.9	3311.4	3173.1	2929.4	3031.7	3073.8	3066.3	2813.6	2094.8
47.5°	3756.5	3746.0	3625.7	3491.9	3517.4	3137.0	3198.6	3281.3	3275.3	2992.6	2230.2
50°	3792.6	3768.6	3720.4	3636.2	3703.9	3347.5	3374.6	3517.4	3511.4	3191.1	2367.0
52.5°	3538.5	3506.9	3637.7	3708.4	3685.9	3500.9	3568.6	3776.1	3773.1	3406.2	2497.8
55°	2903.9	2878.3	3230.2	3595.6	3666.3	3609.2	3783.6	4045.3	4061.8	3634.7	2616.6
57.5°	2284.3	2257.2	2603.1	3312.9	3594.1	3708.4	4034.7	4353.6	4374.6	3882.9	2729.4
60°	1821.1	1780.5	2045.2	2867.8	3458.8	3785.1	4276.9	4691.9	4694.9	4109.9	2798.6
62.5°	1237.6	1192.5	1485.8	2303.9	3231.7	3797.1	4463.3	4983.7	4995.7	4279.9	2810.6
65°	751.9	714.3	912.8	1682.8	2896.4	3694.9	4466.3	5198.7	5209.2	4358.1	2738.5
67.5°	436.1	421.1	521.8	1048.2	2339.9	3419.7	4278.4	5165.6	5185.2	4325.0	2574.5
70°	254.1	252.6	290.2	518.8	1651.2	2873.8	3858.8	4887.4	4916.0	4152.0	2323.4
72.5°	186.5	189.5	204.5	278.2	956.4	2069.3	3267.8	4328.0	4371.6	3813.7	1965.5
75°	147.4	148.9	162.4	189.5	502.3	1170.0	2448.2	3473.8	3508.4	3210.7	1535.4
77.5°	109.8	112.8	123.3	133.8	233.1	536.9	1377.5	2139.9	2082.8	1762.5	741.4
80°	79.7	87.2	91.7	96.2	123.3	207.5	413.6	745.9	739.9	770.0	350.4
82.5°	51.1	57.1	61.7	64.7	73.7	99.3	123.3	166.9	180.5	299.3	139.9
85°	22.6	25.6	28.6	34.6	31.6	34.6	51.1	33.1	28.6	45.1	25.6
87.5°	0.0	0.0	4.5	7.5	6.0	3.0	9.0	6.0	4.5	4.5	4.5
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°	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9	948.9
2.5°	957.9	941.4	906.8	873.7	854.2	828.6	806.0	785.0	783.5	777.5	766.9
5°	970.0	938.4	873.7	812.1	765.4	715.8	673.7	640.6	628.6	619.6	607.5
7.5°	982.0	932.4	836.1	745.9	672.2	603.0	553.4	508.3	494.8	482.7	475.2
10°	986.5	921.8	792.5	672.2	576.0	502.3	449.6	416.6	404.5	398.5	394.0
12.5°	1000.0	915.8	751.9	603.0	491.7	424.1	386.5	366.9	362.4	357.9	353.4
15°	1018.1	915.8	711.3	535.4	425.6	371.4	348.9	335.4	332.3	330.8	327.8
17.5°	1037.6	915.8	672.2	478.2	377.5	336.9	320.3	312.8	311.3	309.8	308.3
20°	1064.7	917.3	630.1	428.6	342.9	311.3	297.8	288.7	287.2	285.7	285.7
22.5°	1091.8	920.3	589.5	391.0	320.3	291.7	275.2	266.2	263.2	263.2	263.2
25°	1126.4	929.4	551.9	359.4	300.8	273.7	252.6	245.1	243.6	243.6	242.1
27.5°	1167.0	939.9	518.8	335.4	281.2	252.6	231.6	224.1	221.1	221.1	219.6
30°	1210.6	950.4	491.7	317.3	261.7	231.6	212.0	203.0	200.0	201.5	200.0
32.5°	1258.7	965.5	470.7	305.3	243.6	213.5	195.5	185.0	183.5	183.5	182.0
35°	1339.9	1007.6	467.7	299.3	228.6	200.0	182.0	171.4	169.9	169.9	168.4
37.5°	1427.1	1055.7	481.2	296.3	216.6	188.0	171.4	160.9	159.4	159.4	159.4
40°	1500.8	1091.8	496.3	296.3	209.0	177.5	162.4	153.4	153.4	153.4	153.4
42.5°	1550.4	1094.8	493.3	296.3	203.0	169.9	156.4	147.4	147.4	148.9	147.4
45°	1624.1	1109.8	481.2	291.7	198.5	163.9	150.4	142.9	141.4	142.9	142.9
47.5°	1711.3	1136.9	469.2	273.7	197.0	157.9	145.9	136.8	135.3	136.8	135.3
50°	1794.1	1160.9	463.2	249.6	194.0	151.9	139.9	130.8	129.3	130.8	129.3
52.5°	1863.2	1171.5	452.6	233.1	186.5	145.9	133.8	124.8	121.8	123.3	123.3
55°	1918.9	1168.5	437.6	219.6	172.9	139.9	126.3	118.8	114.3	114.3	112.8
57.5°	1970.0	1170.0	424.1	206.0	157.9	130.8	120.3	111.3	105.3	103.8	102.3
60°	1989.6	1162.5	400.0	188.0	142.9	123.3	112.8	102.3	96.2	94.7	93.2
62.5°	1962.5	1135.4	368.4	156.4	129.3	114.3	105.3	94.7	88.7	87.2	85.7
65°	1885.8	1084.3	320.3	123.3	117.3	103.8	96.2	88.7	81.2	78.2	76.7
67.5°	1755.0	1010.6	260.2	99.3	103.8	94.7	90.2	81.2	72.2	69.2	67.7
70°	1568.5	912.8	195.5	84.2	91.7	84.2	81.2	72.2	64.7	61.7	60.2
72.5°	1306.8	754.9	136.8	72.2	79.7	73.7	70.7	64.7	57.1	52.6	52.6
75°	988.0	541.4	90.2	61.7	66.2	63.2	58.6	54.1	49.6	46.6	45.1
77.5°	425.6	210.5	55.6	46.6	54.1	52.6	46.6	43.6	42.1	39.1	39.1
80°	183.5	85.7	34.6	34.6	39.1	37.6	36.1	33.1	33.1	31.6	30.1
82.5°	67.7	34.6	21.1	25.6	28.6	25.6	25.6	25.6	25.6	24.1	24.1
85°	16.5	10.5	10.5	15.0	16.5	15.0	16.5	15.0	15.0	15.0	13.5
87.5°	4.5	4.5	6.0	6.0	6.0	6.0	6.0	4.5	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)