

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: P836778

Luminaire Tested: **ARCH3-70-740-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836778
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: ARCH3-70-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8573 lumens
Efficiency: N/A
Efficacy: 117.3 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): 73.1
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



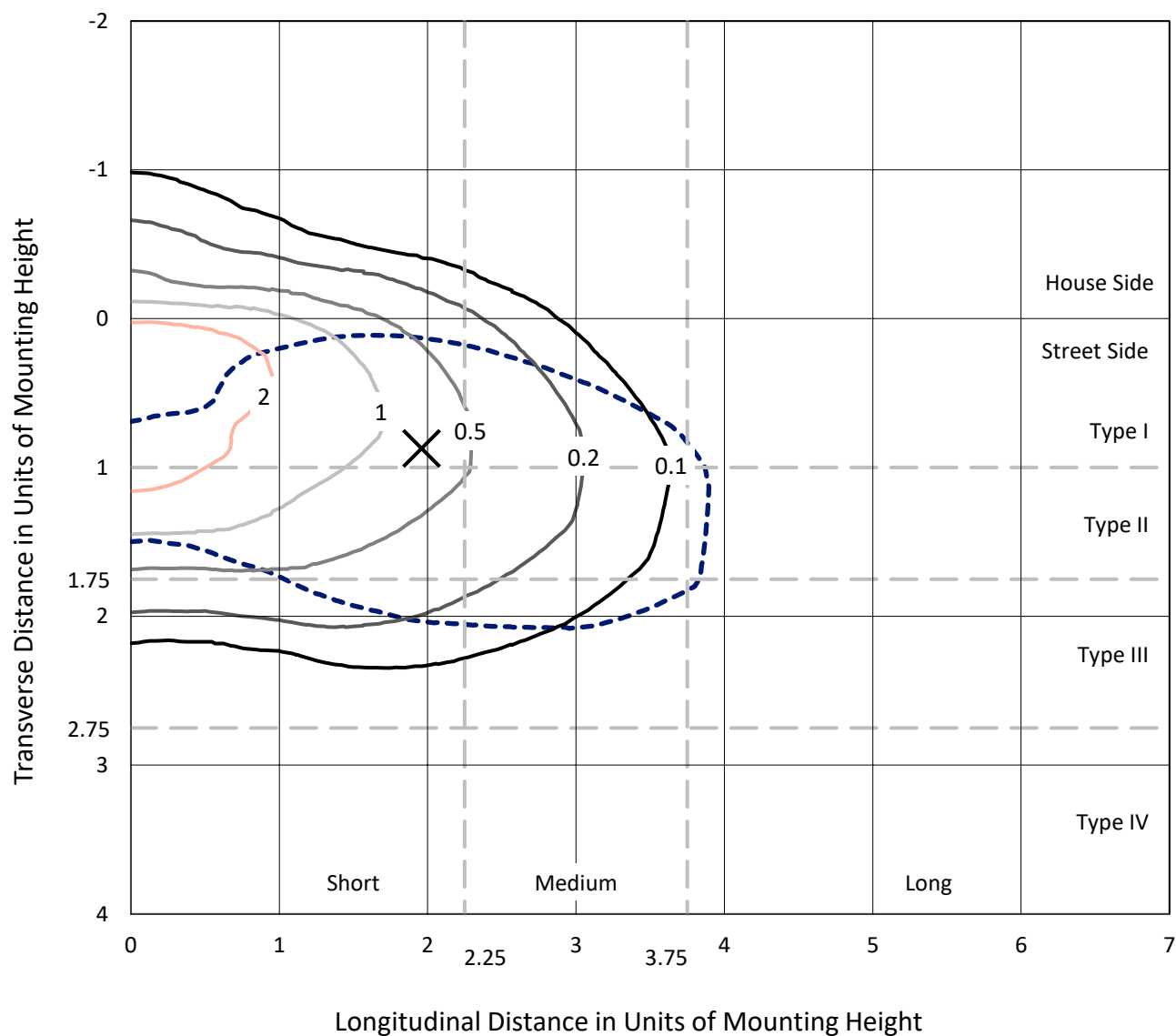
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



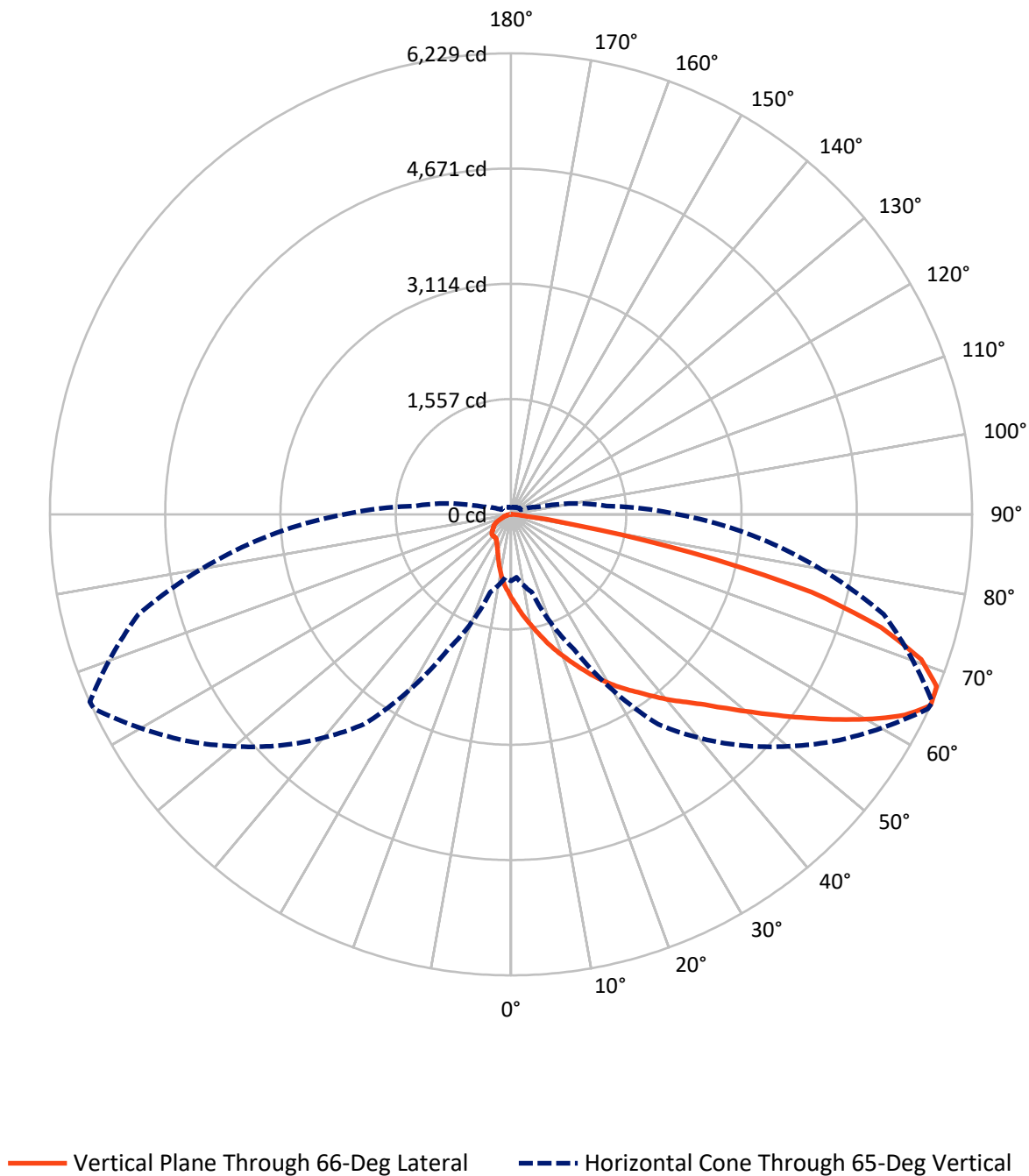
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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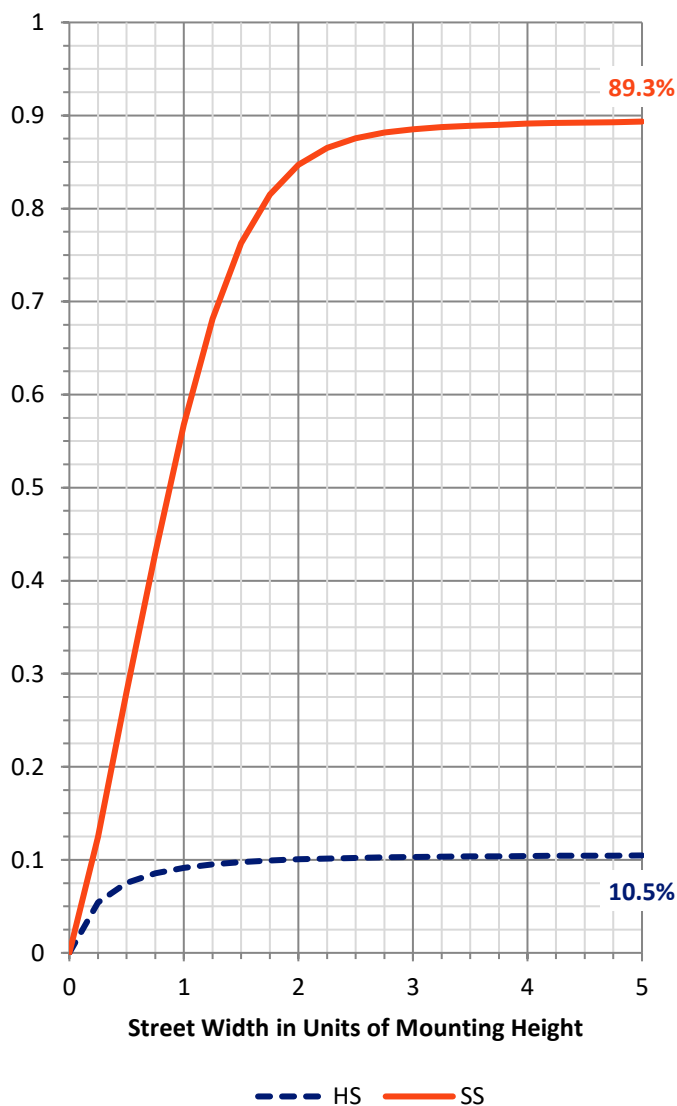
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.8	0.0	906.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7666.2	0.0	7666.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	8573.0	0.0	8573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	1.3
10°-20°	365.0	4.3
20°-30°	660.4	7.7
30°-40°	1032.7	12.0
40°-50°	1566.5	18.3
50°-60°	1990.3	23.2
60°-70°	1859.8	21.7
70°-80°	924.3	10.8
80°-90°	62.1	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°	8573.0	100.0
0°-180°	8573.0	100.0

Coefficient of Utilization



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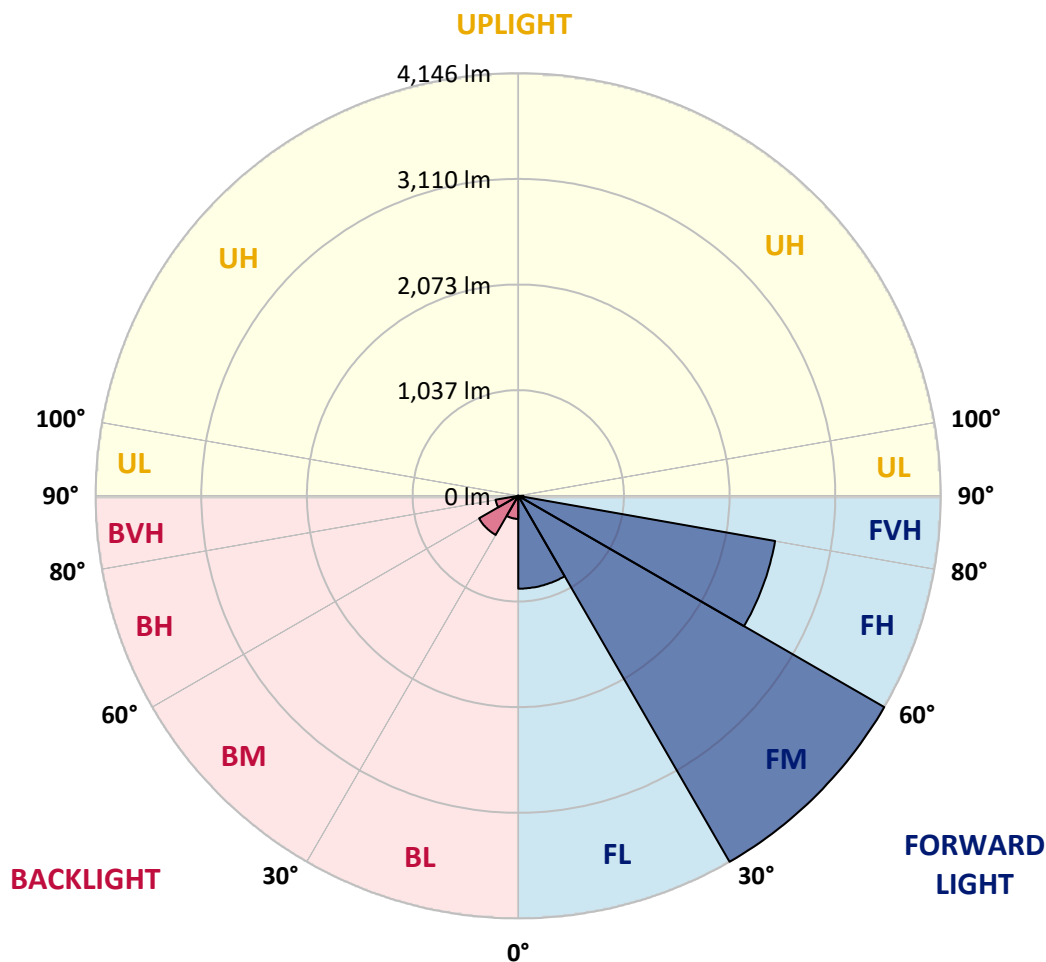
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	910.9	10.6			
FM	(30°-60°)	4146.0	48.4			
FH	(60°-80°)	2558.2	29.8			G2/5000
FVH	(80°-90°)	51.1	0.6			G1/100
BL	(0°-30°)	226.5	2.6	B1/500		
BM	(30°-60°)	443.5	5.2	B1/1000		
BH	(60°-80°)	225.8	2.6	B1/500		G1/500
BVH	(80°-90°)	11.0	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1325.2	1336.0	1341.4	1343.2	1301.8	1283.8	1265.8	1224.5	1215.5	1192.1	1161.6
5°	1558.9	1573.3	1569.7	1562.5	1512.2	1454.6	1407.9	1330.6	1318.0	1262.3	1193.9
7.5°	1789.1	1801.7	1798.1	1771.1	1715.4	1634.5	1557.1	1443.9	1425.9	1336.0	1226.3
10°	1981.5	1992.3	1990.5	1963.5	1897.0	1798.1	1704.6	1553.5	1532.0	1404.3	1253.3
12.5°	2139.7	2154.1	2152.3	2134.3	2075.0	1967.1	1861.0	1679.4	1652.4	1487.0	1291.0
15°	2263.8	2281.8	2281.8	2274.6	2233.2	2143.3	2022.8	1817.9	1785.5	1582.3	1337.8
17.5°	2339.3	2353.7	2366.3	2378.9	2350.1	2281.8	2172.1	1956.3	1922.1	1675.8	1386.3
20°	2378.9	2393.2	2402.2	2429.2	2434.6	2400.4	2314.1	2093.0	2057.0	1781.9	1442.1
22.5°	2443.6	2456.2	2458.0	2481.4	2492.1	2501.1	2447.2	2227.8	2199.1	1898.8	1505.0
25°	2551.5	2565.9	2560.5	2571.3	2573.1	2583.8	2578.4	2382.5	2353.7	2031.8	1580.5
27.5°	2689.9	2707.9	2704.3	2693.5	2677.3	2668.4	2691.7	2538.9	2511.9	2164.9	1657.8
30°	2839.2	2860.7	2855.4	2833.8	2790.6	2752.9	2785.2	2686.3	2661.2	2301.5	1744.1
32.5°	2990.2	3015.4	3013.6	2977.6	2903.9	2839.2	2887.7	2824.8	2806.8	2449.0	1837.6
35°	3089.1	3121.5	3117.9	3096.3	3001.0	2945.3	3004.6	2966.8	2954.2	2628.8	1972.5
37.5°	3249.1	3283.3	3252.7	3198.8	3089.1	3060.3	3132.3	3126.9	3117.9	2819.4	2114.5
40°	3637.5	3687.9	3607.0	3385.8	3206.0	3180.8	3283.3	3304.9	3295.9	3008.2	2242.2
42.5°	4043.9	4119.4	3993.5	3687.9	3418.2	3326.5	3448.7	3479.3	3468.5	3170.0	2357.3
45°	4290.2	4322.6	4196.7	3959.4	3794.0	3502.7	3624.9	3675.3	3666.3	3364.2	2504.7
47.5°	4491.6	4479.0	4335.2	4175.1	4205.7	3750.8	3824.5	3923.4	3916.2	3578.2	2666.6
50°	4534.8	4506.0	4448.5	4347.8	4428.7	4002.5	4034.9	4205.7	4198.5	3815.5	2830.2
52.5°	4230.9	4193.1	4349.6	4434.1	4407.1	4185.9	4266.8	4515.0	4511.4	4072.7	2986.6
55°	3472.1	3441.5	3862.3	4299.2	4383.7	4315.4	4524.0	4836.8	4856.6	4346.0	3128.7
57.5°	2731.3	2698.9	3112.5	3961.2	4297.4	4434.1	4824.3	5205.4	5230.6	4642.6	3263.5
60°	2177.5	2128.9	2445.4	3428.9	4135.6	4525.8	5113.7	5610.0	5613.6	4914.2	3346.2
62.5°	1479.8	1425.9	1776.5	2754.7	3864.1	4540.2	5336.7	5958.8	5973.2	5117.3	3360.6
65°	899.0	854.1	1091.4	2012.1	3463.1	4417.9	5340.3	6216.0	6228.6	5210.8	3274.3
67.5°	521.4	503.5	623.9	1253.3	2797.8	4088.8	5115.5	6176.4	6199.8	5171.3	3078.3
70°	303.9	302.1	347.0	620.3	1974.3	3436.1	4613.9	5843.8	5877.9	4964.5	2778.0
72.5°	223.0	226.6	244.5	332.6	1143.6	2474.2	3907.2	5174.9	5227.0	4559.9	2350.1
75°	176.2	178.0	194.2	226.6	600.6	1398.9	2927.3	4153.6	4194.9	3838.9	1835.8
77.5°	131.3	134.9	147.4	160.0	278.7	641.9	1647.0	2558.7	2490.3	2107.4	886.5
80°	95.3	104.3	109.7	115.1	147.4	248.1	494.5	891.8	884.7	920.6	419.0
82.5°	61.1	68.3	73.7	77.3	88.1	118.7	147.4	199.6	215.8	357.8	167.2
85°	27.0	30.6	34.2	41.4	37.8	41.4	61.1	39.6	34.2	53.9	30.6
87.5°	0.0	0.0	5.4	9.0	7.2	3.6	10.8	7.2	5.4	5.4	5.4
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°	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1145.4	1125.6	1084.2	1044.7	1021.3	990.7	963.8	938.6	936.8	929.6	917.0
5°	1159.8	1122.0	1044.7	971.0	915.2	855.9	805.5	766.0	751.6	740.8	726.4
7.5°	1174.1	1114.8	999.7	891.8	803.7	721.0	661.7	607.8	591.6	577.2	568.2
10°	1179.5	1102.2	947.6	803.7	688.7	600.6	537.6	498.1	483.7	476.5	471.1
12.5°	1195.7	1095.0	899.0	721.0	588.0	507.1	462.1	438.7	433.3	427.9	422.5
15°	1217.3	1095.0	850.5	640.1	508.9	444.1	417.2	401.0	397.4	395.6	392.0
17.5°	1240.7	1095.0	803.7	571.8	451.3	402.8	383.0	374.0	372.2	370.4	368.6
20°	1273.0	1096.8	753.4	512.5	410.0	372.2	356.0	345.2	343.4	341.6	341.6
22.5°	1305.4	1100.4	704.8	467.5	383.0	348.8	329.0	318.3	314.7	314.7	314.7
25°	1346.8	1111.2	659.9	429.7	359.6	327.3	302.1	293.1	291.3	291.3	289.5
27.5°	1395.3	1123.8	620.3	401.0	336.2	302.1	276.9	267.9	264.3	264.3	262.5
30°	1447.5	1136.4	588.0	379.4	312.9	276.9	253.5	242.7	239.1	240.9	239.1
32.5°	1505.0	1154.4	562.8	365.0	291.3	255.3	233.8	221.2	219.4	219.4	217.6
35°	1602.1	1204.7	559.2	357.8	273.3	239.1	217.6	205.0	203.2	203.2	201.4
37.5°	1706.4	1262.3	575.4	354.2	258.9	224.8	205.0	192.4	190.6	190.6	190.6
40°	1794.5	1305.4	593.4	354.2	249.9	212.2	194.2	183.4	183.4	183.4	183.4
42.5°	1853.8	1309.0	589.8	354.2	242.7	203.2	187.0	176.2	176.2	178.0	176.2
45°	1941.9	1327.0	575.4	348.8	237.3	196.0	179.8	170.8	169.0	170.8	170.8
47.5°	2046.2	1359.3	561.0	327.3	235.5	188.8	174.4	163.6	161.8	163.6	161.8
50°	2145.1	1388.1	553.8	298.5	232.0	181.6	167.2	156.4	154.6	156.4	154.6
52.5°	2227.8	1400.7	541.2	278.7	223.0	174.4	160.0	149.2	145.6	147.4	147.4
55°	2294.4	1397.1	523.2	262.5	206.8	167.2	151.0	142.0	136.7	136.7	134.9
57.5°	2355.5	1398.9	507.1	246.3	188.8	156.4	143.8	133.1	125.9	124.1	122.3
60°	2378.9	1389.9	478.3	224.8	170.8	147.4	134.9	122.3	115.1	113.3	111.5
62.5°	2346.5	1357.6	440.5	187.0	154.6	136.7	125.9	113.3	106.1	104.3	102.5
65°	2254.8	1296.4	383.0	147.4	140.3	124.1	115.1	106.1	97.1	93.5	91.7
67.5°	2098.4	1208.3	311.1	118.7	124.1	113.3	107.9	97.1	86.3	82.7	80.9
70°	1875.4	1091.4	233.8	100.7	109.7	100.7	97.1	86.3	77.3	73.7	71.9
72.5°	1562.5	902.6	163.6	86.3	95.3	88.1	84.5	77.3	68.3	62.9	62.9
75°	1181.3	647.3	107.9	73.7	79.1	75.5	70.1	64.7	59.3	55.7	53.9
77.5°	508.9	251.7	66.5	55.7	64.7	62.9	55.7	52.1	50.3	46.8	46.8
80°	219.4	102.5	41.4	41.4	46.8	45.0	43.2	39.6	39.6	37.8	36.0
82.5°	80.9	41.4	25.2	30.6	34.2	30.6	30.6	30.6	30.6	28.8	28.8
85°	19.8	12.6	12.6	18.0	19.8	18.0	19.8	18.0	18.0	18.0	16.2
87.5°	5.4	5.4	7.2	7.2	7.2	7.2	7.2	5.4	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)