

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: P836614

Luminaire Tested: **ARCH3-50-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

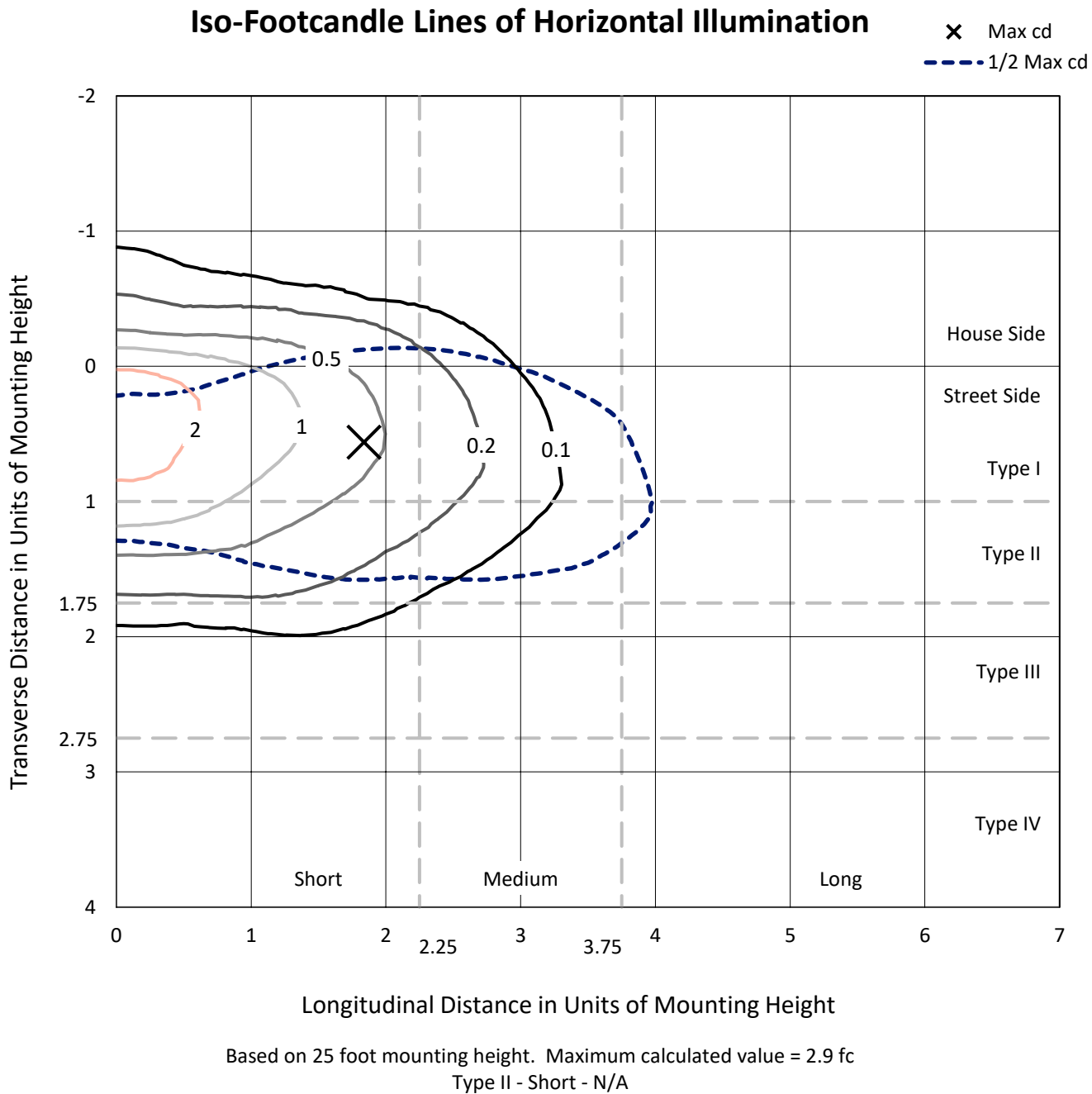
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6109 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53.6
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

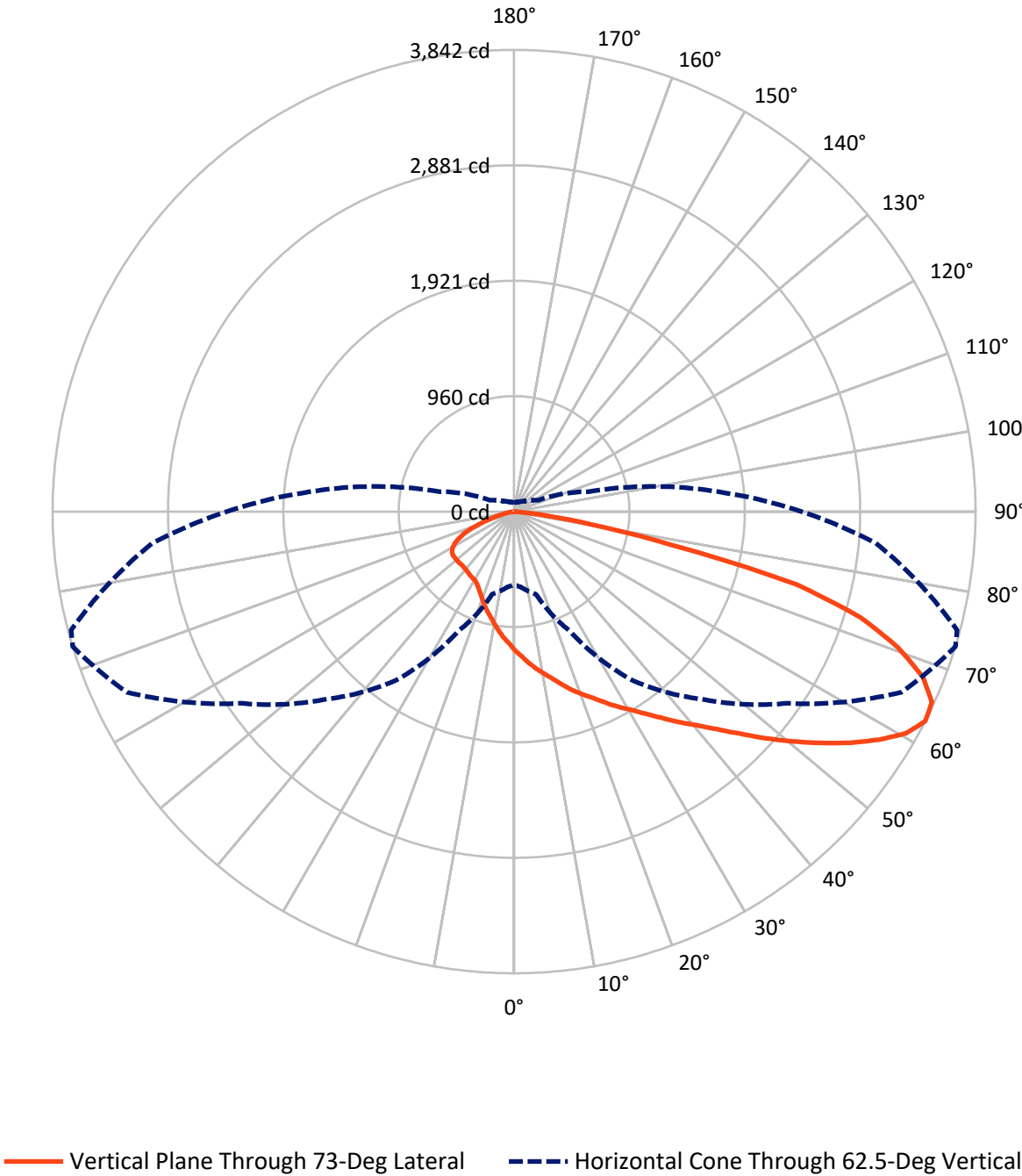


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Luminous Intensity Polar Plot



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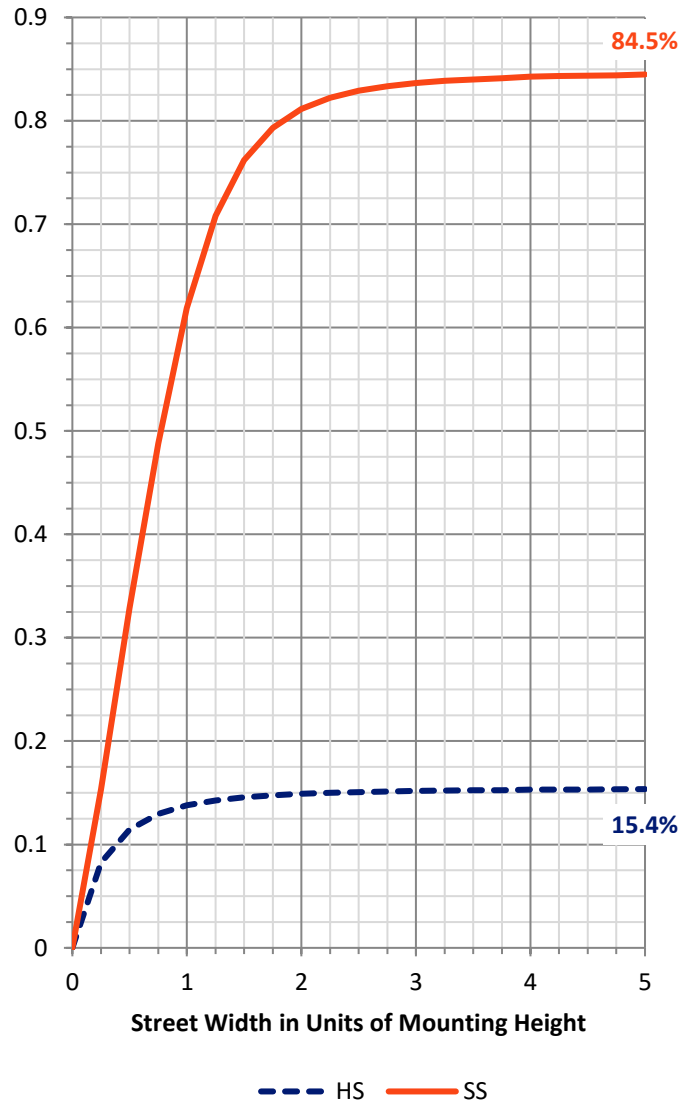
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.0	0.0	947.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5162.0	0.0	5162.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	6109.0	0.0	6109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.8
10°-20°	337.2	5.5
20°-30°	561.3	9.2
30°-40°	846.9	13.9
40°-50°	1183.7	19.4
50°-60°	1307.5	21.4
60°-70°	1139.0	18.6
70°-80°	575.4	9.4
80°-90°	46.2	0.8
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°	6109.0	100.0
0°-180°	6109.0	100.0

Coefficient of Utilization



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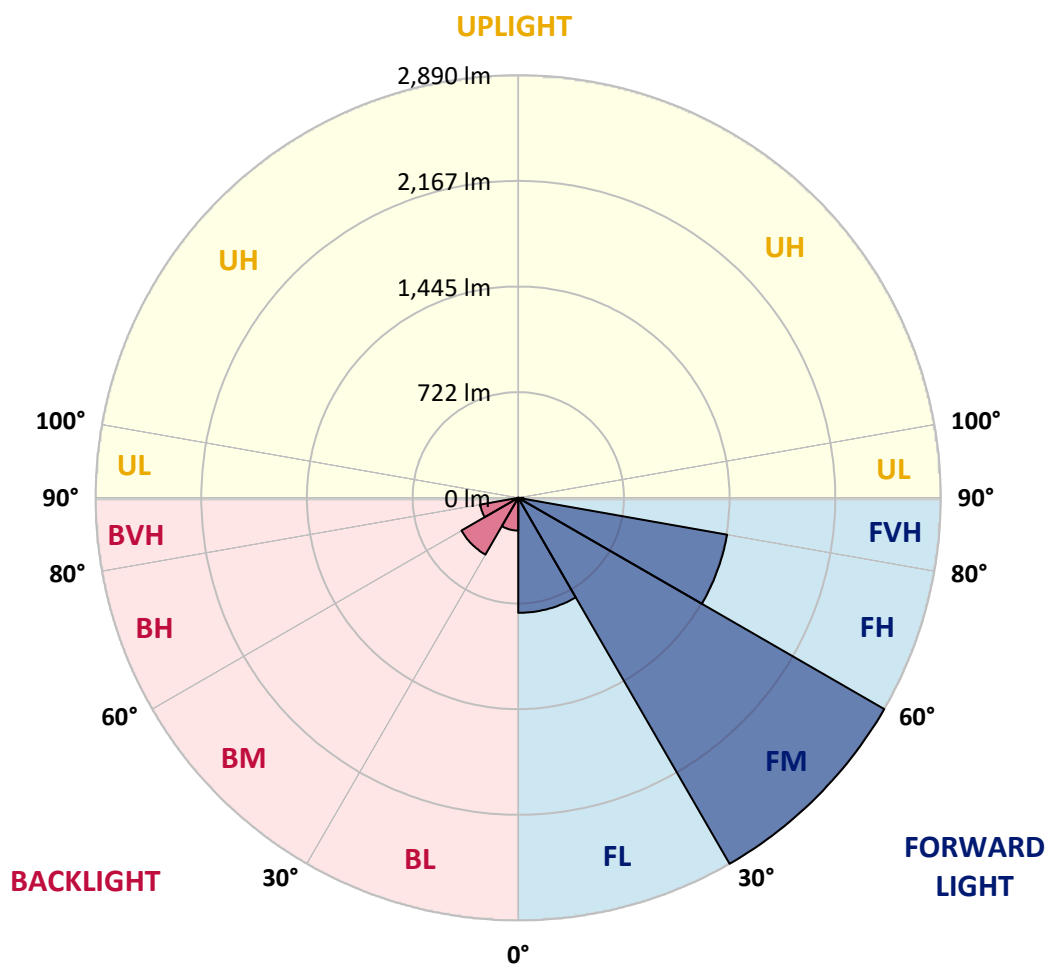
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	786.4	12.9			
FM	(30°-60°)	2889.8	47.3			
FH	(60°-80°)	1450.1	23.7			G1/1800
FVH	(80°-90°)	35.7	0.6			G1/100
BL	(0°-30°)	223.8	3.7	B1/500		
BM	(30°-60°)	448.4	7.3	B1/1000		
BH	(60°-80°)	264.3	4.3	B1/500		G1/500
BVH	(80°-90°)	10.4	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1316.5	1331.1	1323.1	1328.5	1301.8	1284.5	1264.6	1226.0	1204.7	1202.0	1176.7
5°	1509.5	1525.5	1512.2	1508.2	1461.6	1421.6	1376.4	1308.5	1263.2	1255.3	1199.3
7.5°	1702.5	1717.2	1701.2	1689.2	1626.6	1556.1	1489.5	1389.7	1319.1	1305.8	1218.0
10°	1838.3	1851.6	1839.6	1827.6	1762.4	1690.5	1596.0	1465.6	1369.7	1348.4	1230.0
12.5°	1940.8	1948.8	1943.5	1932.8	1871.6	1794.4	1703.8	1550.8	1427.0	1400.3	1248.6
15°	2024.6	2038.0	2031.3	2023.3	1964.7	1887.5	1801.0	1640.0	1493.5	1460.2	1276.6
17.5°	2080.6	2089.9	2091.2	2091.2	2039.3	1963.4	1879.6	1721.2	1560.1	1517.5	1303.2
20°	2105.8	2116.5	2123.2	2133.8	2091.2	2026.0	1940.8	1790.4	1622.6	1574.7	1328.5
22.5°	2117.8	2127.1	2144.5	2168.4	2133.8	2079.2	2000.7	1854.3	1685.2	1634.6	1357.8
25°	2127.1	2139.1	2164.4	2209.7	2185.7	2139.1	2071.2	1927.5	1759.8	1707.8	1400.3
27.5°	2152.4	2167.1	2191.0	2245.6	2216.3	2193.7	2145.8	2006.0	1838.3	1785.0	1452.3
30°	2240.3	2252.3	2250.9	2285.6	2249.6	2243.0	2209.7	2081.9	1914.2	1860.9	1513.5
32.5°	2400.0	2412.0	2382.7	2369.4	2290.9	2292.2	2278.9	2163.1	2004.7	1950.1	1584.0
35°	2571.7	2585.1	2546.5	2523.8	2392.0	2353.4	2360.1	2264.3	2105.8	2051.3	1671.9
37.5°	2724.8	2740.8	2707.5	2674.2	2541.1	2451.9	2450.6	2377.4	2221.7	2165.7	1769.1
40°	2808.7	2827.3	2847.3	2828.7	2688.9	2590.4	2547.8	2493.2	2336.1	2278.9	1874.2
42.5°	2848.6	2900.5	2936.5	2924.5	2810.0	2710.2	2659.6	2614.3	2475.9	2420.0	1999.4
45°	2736.8	2738.1	2814.0	2879.2	2857.9	2791.4	2782.1	2750.1	2635.6	2582.4	2140.5
47.5°	2597.0	2586.4	2639.6	2755.4	2815.3	2832.6	2887.2	2900.5	2818.0	2764.8	2284.2
50°	2261.6	2268.2	2441.3	2607.7	2724.8	2836.6	2961.8	3054.9	3005.7	2955.1	2436.0
52.5°	1839.6	1855.6	2053.9	2420.0	2605.0	2796.7	3005.7	3209.4	3197.4	3149.5	2587.7
55°	1474.9	1500.2	1710.5	2107.2	2451.9	2707.5	3024.3	3350.5	3395.7	3351.8	2736.8
57.5°	1127.5	1154.1	1331.1	1738.5	2256.3	2562.4	3011.0	3474.2	3580.7	3552.8	2873.9
60°	849.3	875.9	989.0	1409.7	2011.3	2400.0	2944.5	3555.4	3747.1	3717.8	2973.7
62.5°	608.3	629.6	713.5	1096.9	1713.2	2207.0	2780.7	3556.8	3841.6	3817.7	3021.7
65°	437.9	437.9	505.8	782.7	1433.6	1975.4	2533.1	3393.1	3821.7	3815.0	2988.4
67.5°	315.5	318.1	372.7	547.1	1143.4	1694.5	2212.3	3101.5	3667.3	3700.5	2868.6
70°	223.6	230.3	255.6	382.0	863.9	1337.8	1868.9	2719.5	3389.1	3447.6	2637.0
72.5°	173.0	177.0	194.3	266.2	631.0	994.4	1489.5	2293.5	3017.7	3084.2	2321.5
75°	133.1	137.1	150.4	195.7	452.6	697.5	1058.2	1779.7	2433.3	2551.8	1864.9
77.5°	97.2	102.5	111.8	142.4	263.6	443.3	641.6	1001.0	1343.1	1399.0	977.0
80°	45.3	51.9	65.2	91.8	142.4	209.0	227.6	386.0	645.6	674.9	529.8
82.5°	25.3	31.9	37.3	55.9	71.9	74.5	77.2	97.2	243.6	268.9	222.3
85°	12.0	16.0	17.3	24.0	24.0	21.3	25.3	18.6	39.9	47.9	46.6
87.5°	0.0	1.3	2.7	6.7	5.3	4.0	4.0	4.0	4.0	5.3	4.0
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°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1164.7	1147.4	1107.5	1072.9	1050.3	1030.3	1003.7	991.7	970.4	974.4	962.4
5°	1171.4	1139.4	1068.9	1003.7	955.8	913.2	866.6	839.9	810.7	808.0	798.7
7.5°	1175.4	1126.1	1025.0	933.1	859.9	794.7	732.1	697.5	661.6	653.6	645.6
10°	1171.4	1106.2	979.7	859.9	762.7	681.5	611.0	567.1	529.8	520.5	512.5
12.5°	1175.4	1095.5	937.1	792.0	676.2	584.4	504.5	459.2	424.6	415.3	410.0
15°	1184.7	1088.9	901.2	730.8	599.0	496.5	418.0	379.4	351.4	342.1	339.4
17.5°	1192.7	1082.2	862.6	670.9	521.8	419.3	351.4	319.5	295.5	286.2	283.5
20°	1203.3	1072.9	824.0	613.7	453.9	358.1	298.2	270.2	251.6	244.9	243.6
22.5°	1212.7	1066.2	788.0	556.4	391.4	308.8	258.2	235.6	222.3	215.6	215.6
25°	1236.6	1068.9	757.4	503.2	344.8	270.2	227.6	210.3	199.7	195.7	195.7
27.5°	1264.6	1079.5	733.5	457.9	304.8	240.9	206.3	191.7	186.4	181.0	182.4
30°	1304.5	1100.8	717.5	420.6	275.5	218.3	189.0	178.4	173.0	171.7	171.7
32.5°	1355.1	1135.5	716.1	396.7	254.2	201.0	177.0	167.7	165.1	163.7	163.7
35°	1415.0	1166.1	708.2	386.0	240.9	189.0	167.7	161.1	159.7	159.7	159.7
37.5°	1486.9	1216.7	702.8	371.4	234.3	182.4	161.1	155.7	155.7	155.7	155.7
40°	1561.4	1257.9	694.8	358.1	231.6	178.4	157.1	150.4	150.4	150.4	150.4
42.5°	1650.6	1317.8	692.2	351.4	227.6	175.7	151.7	143.8	145.1	145.1	146.4
45°	1758.4	1385.7	690.9	344.8	226.3	173.0	146.4	137.1	138.4	137.1	137.1
47.5°	1867.6	1464.2	694.8	340.8	225.0	170.4	142.4	130.5	130.5	129.1	129.1
50°	1982.1	1536.1	697.5	336.8	222.3	165.1	135.8	125.1	122.5	119.8	121.1
52.5°	2089.9	1602.7	698.8	330.1	214.3	157.1	130.5	118.5	114.5	110.5	111.8
55°	2197.7	1666.6	701.5	322.1	203.7	149.1	123.8	111.8	106.5	101.2	101.2
57.5°	2294.9	1722.5	694.8	302.2	191.7	141.1	117.1	103.8	95.8	90.5	90.5
60°	2361.4	1762.4	674.9	272.9	175.7	131.8	110.5	95.8	86.5	82.5	82.5
62.5°	2393.4	1769.1	638.9	225.0	155.7	122.5	102.5	87.9	79.9	77.2	77.2
65°	2362.8	1739.8	583.0	169.1	134.4	111.8	94.5	81.2	73.2	66.6	66.6
67.5°	2256.3	1657.3	505.8	127.8	114.5	101.2	86.5	74.5	65.2	59.9	59.9
70°	2042.0	1485.5	391.4	102.5	97.2	87.9	78.5	66.6	58.6	51.9	51.9
72.5°	1761.1	1259.2	275.5	82.5	82.5	74.5	66.6	58.6	50.6	45.3	45.3
75°	1351.1	931.8	185.0	66.6	67.9	62.6	54.6	47.9	42.6	38.6	38.6
77.5°	737.4	460.6	113.1	49.3	50.6	47.9	42.6	38.6	35.9	31.9	31.9
80°	358.1	202.3	65.2	34.6	35.9	34.6	31.9	28.0	28.0	25.3	25.3
82.5°	150.4	75.9	34.6	24.0	24.0	21.3	20.0	20.0	20.0	18.6	18.6
85°	37.3	14.6	14.6	13.3	13.3	13.3	12.0	12.0	12.0	9.3	10.6
87.5°	5.3	5.3	5.3	5.3	5.3	5.3	4.0	1.3	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)