

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: P836605

Luminaire Tested: **ARCH3-50-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836605
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: ARCH3-50-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

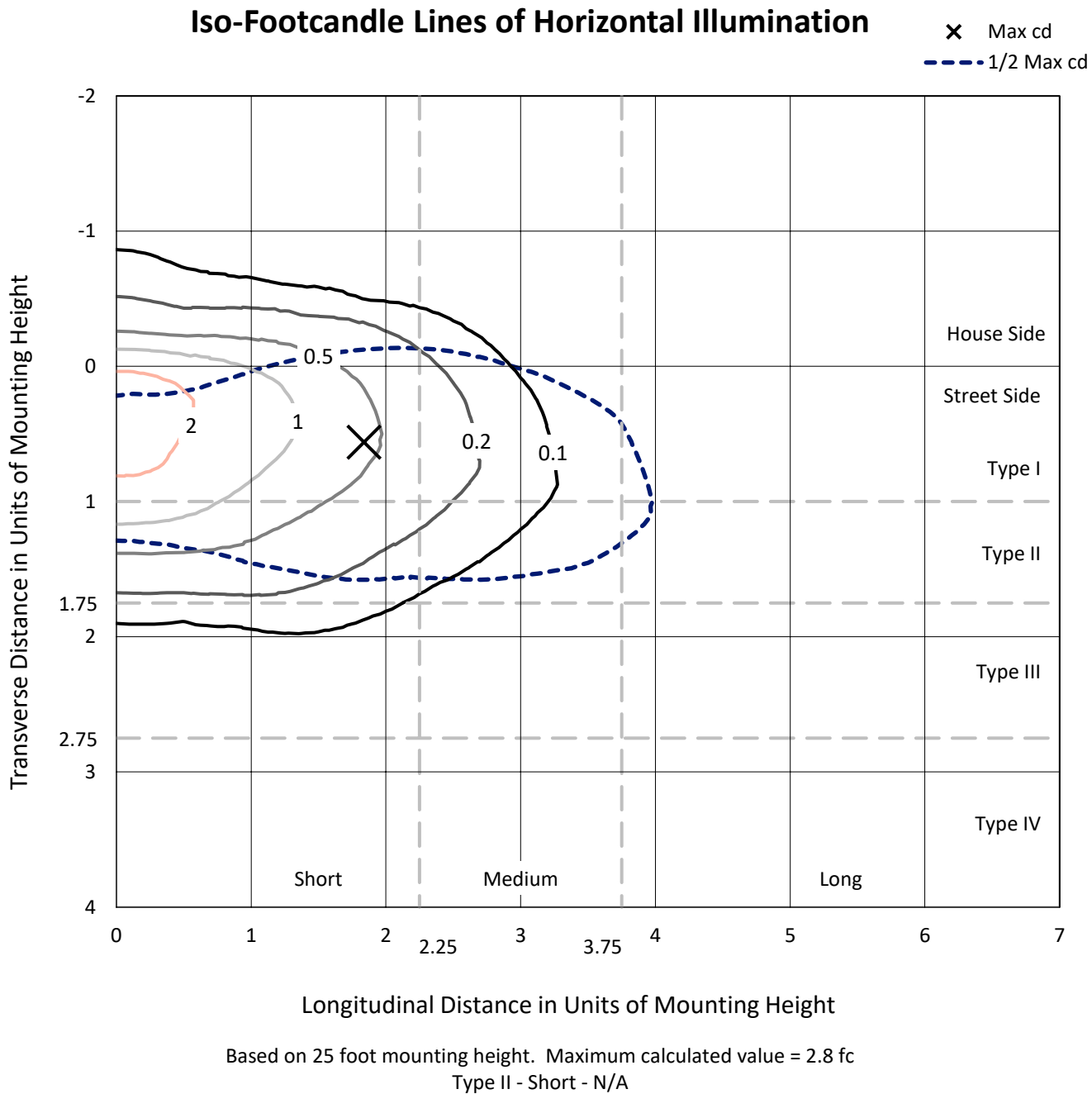
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5895 lumens
Efficiency: N/A
Efficacy: 110.0 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

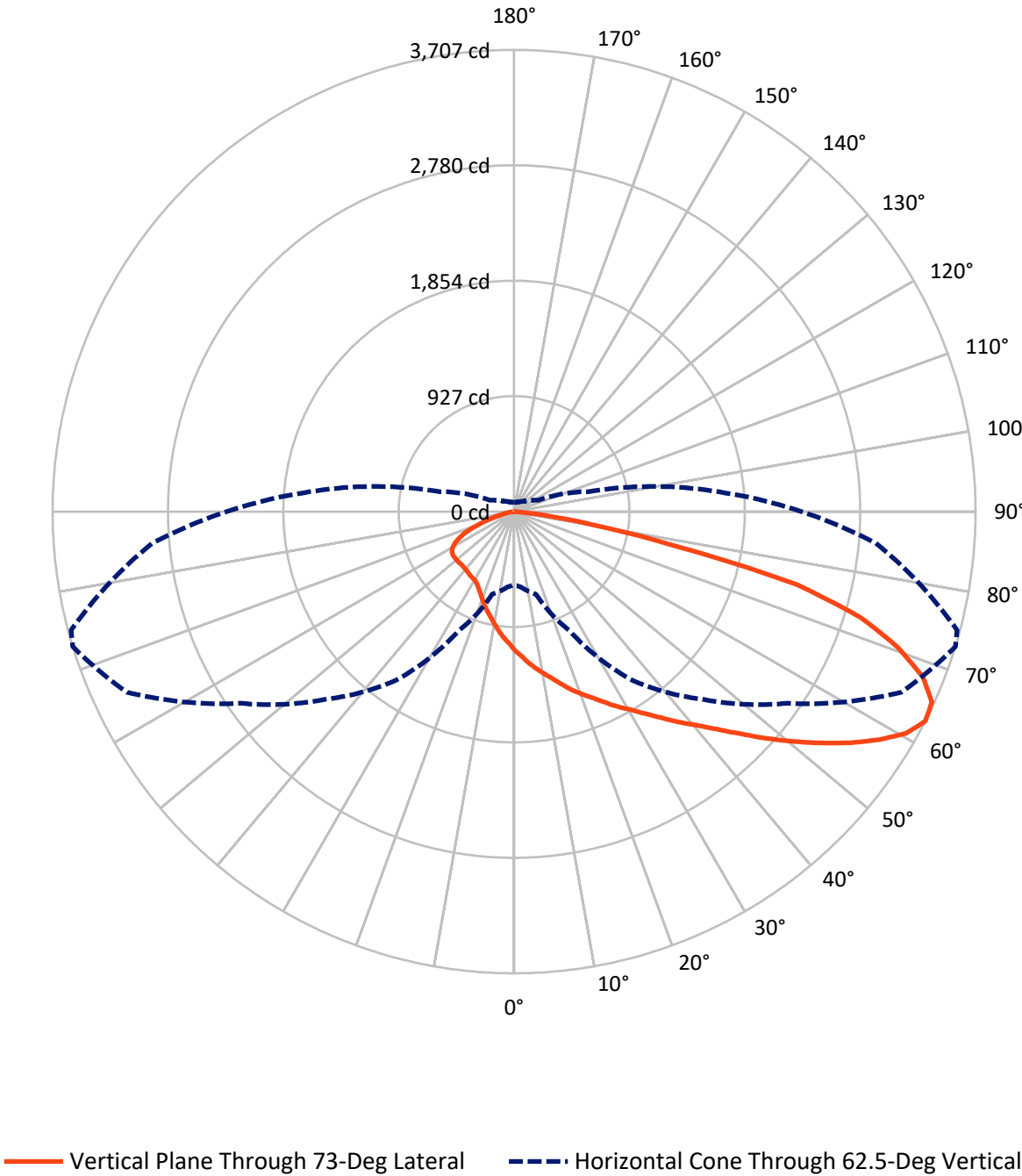


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Luminous Intensity Polar Plot



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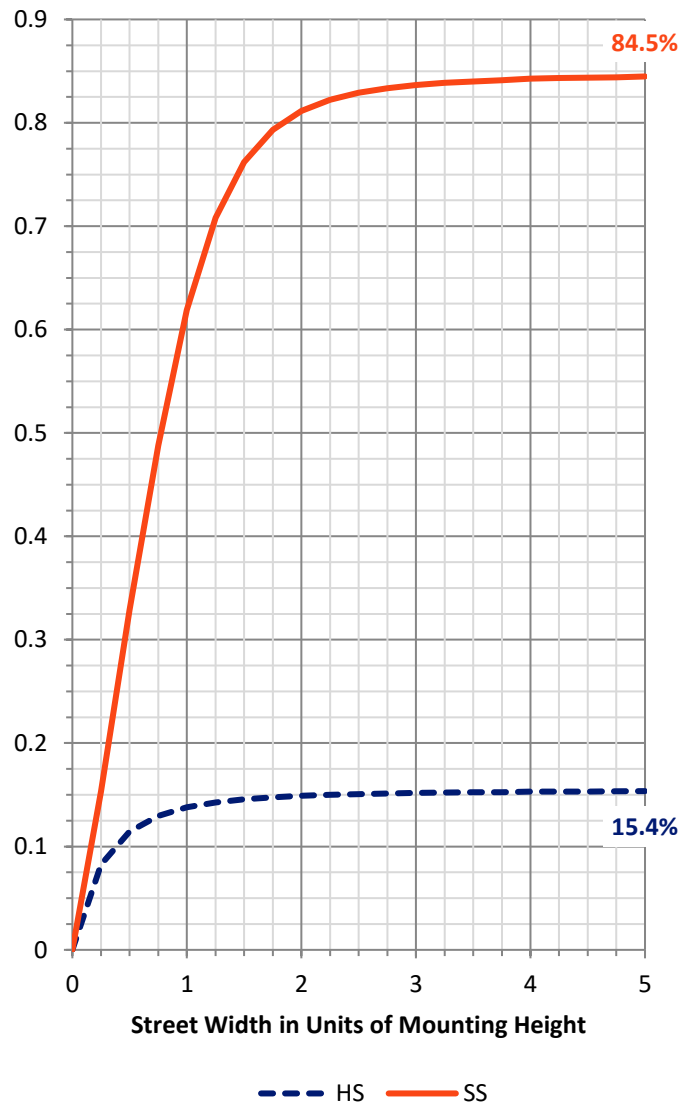
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	913.8	0.0	913.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4981.2	0.0	4981.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	5895.0	0.0	5895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.8
10°-20°	325.4	5.5
20°-30°	541.6	9.2
30°-40°	817.2	13.9
40°-50°	1142.3	19.4
50°-60°	1261.7	21.4
60°-70°	1099.1	18.6
70°-80°	555.2	9.4
80°-90°	44.6	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°	5895.0	100.0
0°-180°	5895.0	100.0

Coefficient of Utilization



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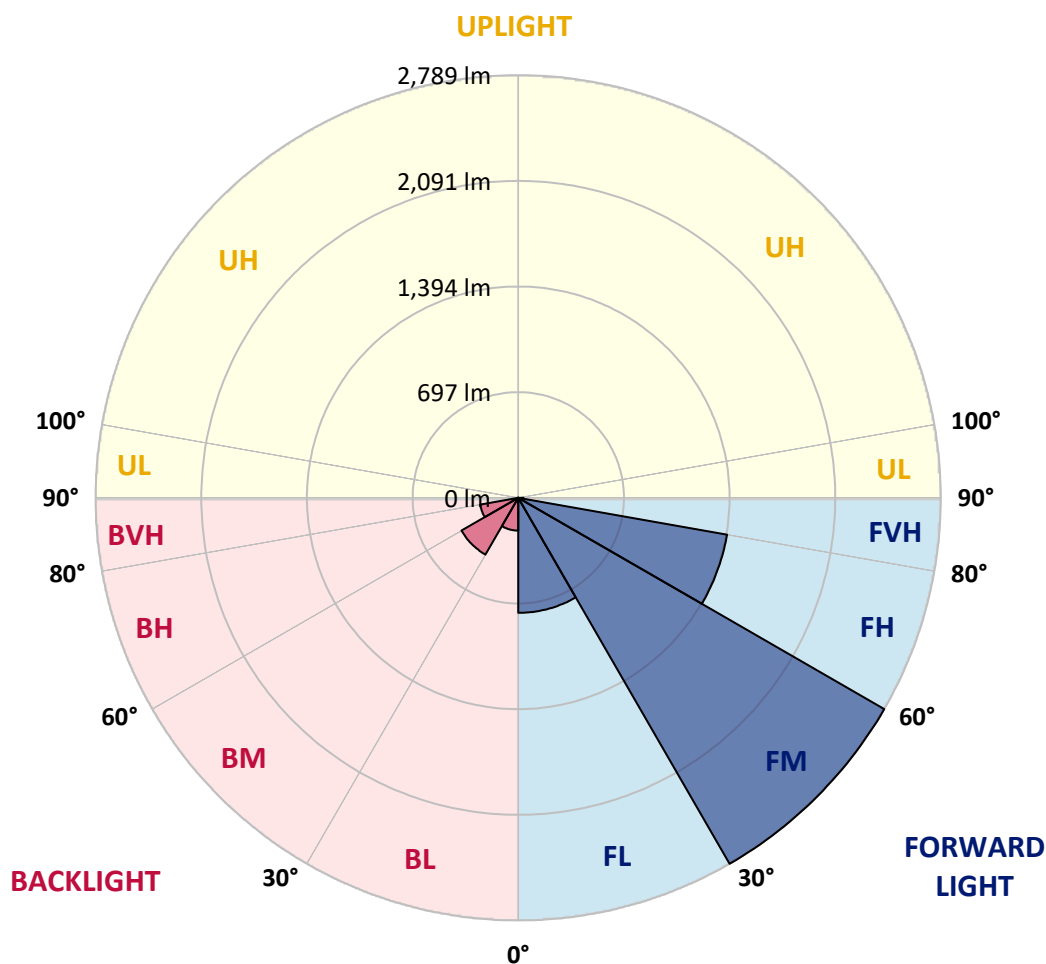
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.9	12.9			
FM	(30°-60°)	2788.6	47.3			
FH	(60°-80°)	1399.3	23.7			G1/1800
FVH	(80°-90°)	34.5	0.6			G1/100
BL	(0°-30°)	216.0	3.7	B1/500		
BM	(30°-60°)	432.7	7.3	B1/1000		
BH	(60°-80°)	255.1	4.3	B1/500		G1/500
BVH	(80°-90°)	10.1	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°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1270.4	1284.5	1276.8	1281.9	1256.2	1239.5	1220.3	1183.0	1162.5	1159.9	1135.5
5°	1456.6	1472.0	1459.2	1455.3	1410.4	1371.8	1328.2	1262.7	1219.0	1211.3	1157.3
7.5°	1642.9	1657.0	1641.6	1630.0	1569.7	1501.6	1437.4	1341.0	1272.9	1260.1	1175.3
10°	1773.9	1786.7	1775.2	1763.6	1700.7	1631.3	1540.1	1414.2	1321.8	1301.2	1186.9
12.5°	1872.8	1880.5	1875.4	1865.1	1806.0	1731.5	1644.2	1496.4	1377.0	1351.3	1204.9
15°	1953.7	1966.6	1960.1	1952.4	1895.9	1821.4	1737.9	1582.5	1441.2	1409.1	1231.8
17.5°	2007.7	2016.7	2017.9	2017.9	1967.9	1894.6	1813.7	1660.9	1505.4	1464.3	1257.5
20°	2032.1	2042.4	2048.8	2059.1	2017.9	1955.0	1872.8	1727.7	1565.8	1519.6	1281.9
22.5°	2043.6	2052.6	2069.3	2092.5	2059.1	2006.4	1930.6	1789.3	1626.2	1577.4	1310.2
25°	2052.6	2064.2	2088.6	2132.3	2109.1	2064.2	1998.7	1860.0	1698.1	1648.0	1351.3
27.5°	2077.0	2091.2	2114.3	2167.0	2138.7	2116.9	2070.6	1935.7	1773.9	1722.5	1401.4
30°	2161.8	2173.4	2172.1	2205.5	2170.8	2164.4	2132.3	2009.0	1847.1	1795.7	1460.5
32.5°	2316.0	2327.5	2299.3	2286.4	2210.6	2211.9	2199.1	2087.3	1934.5	1881.8	1528.6
35°	2481.7	2494.5	2457.2	2435.4	2308.2	2271.0	2277.4	2184.9	2032.1	1979.4	1613.3
37.5°	2629.4	2644.8	2612.7	2580.6	2452.1	2366.0	2364.8	2294.1	2143.8	2089.9	1707.1
40°	2710.3	2728.3	2747.5	2729.6	2594.7	2499.6	2458.5	2405.9	2254.3	2199.1	1808.6
42.5°	2748.8	2798.9	2833.6	2822.0	2711.6	2615.2	2566.4	2522.8	2389.2	2335.2	1929.3
45°	2640.9	2642.2	2715.4	2778.4	2757.8	2693.6	2684.6	2653.8	2543.3	2491.9	2065.5
47.5°	2506.1	2495.8	2547.2	2658.9	2716.7	2733.4	2786.1	2798.9	2719.3	2667.9	2204.2
50°	2182.4	2188.8	2355.8	2516.3	2629.4	2737.3	2858.0	2947.9	2900.4	2851.6	2350.6
52.5°	1775.2	1790.6	1982.0	2335.2	2513.8	2698.7	2900.4	3096.9	3085.4	3039.1	2497.1
55°	1423.2	1447.6	1650.6	2033.4	2366.0	2612.7	2918.4	3233.1	3276.8	3234.4	2640.9
57.5°	1088.0	1113.7	1284.5	1677.6	2177.2	2472.7	2905.5	3352.5	3455.3	3428.3	2773.2
60°	819.5	845.2	954.4	1360.3	1940.9	2316.0	2841.3	3430.9	3615.9	3587.6	2869.6
62.5°	587.0	607.6	688.5	1058.4	1653.2	2129.7	2683.3	3432.2	3707.1	3683.9	2915.8
65°	422.6	422.6	488.1	755.3	1383.4	1906.2	2444.4	3274.2	3687.8	3681.4	2883.7
67.5°	304.4	307.0	359.7	527.9	1103.4	1635.2	2134.8	2992.9	3538.8	3570.9	2768.1
70°	215.8	222.2	246.6	368.7	833.6	1290.9	1803.4	2624.2	3270.3	3326.9	2544.6
72.5°	167.0	170.8	187.5	256.9	608.9	959.5	1437.4	2213.2	2912.0	2976.2	2240.2
75°	128.5	132.3	145.1	188.8	436.7	673.1	1021.2	1717.4	2348.1	2462.4	1799.6
77.5°	93.8	98.9	107.9	137.4	254.3	427.7	619.1	965.9	1296.1	1350.0	942.8
80°	43.7	50.1	62.9	88.6	137.4	201.7	219.6	372.5	623.0	651.2	511.2
82.5°	24.4	30.8	36.0	53.9	69.4	71.9	74.5	93.8	235.1	259.5	214.5
85°	11.6	15.4	16.7	23.1	23.1	20.6	24.4	18.0	38.5	46.2	45.0
87.5°	0.0	1.3	2.6	6.4	5.1	3.9	3.9	3.9	3.9	5.1	3.9
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°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1123.9	1107.2	1068.7	1035.3	1013.5	994.2	968.5	957.0	936.4	940.3	928.7
5°	1130.4	1099.5	1031.5	968.5	922.3	881.2	836.2	810.5	782.3	779.7	770.7
7.5°	1134.2	1086.7	989.1	900.4	829.8	766.8	706.5	673.1	638.4	630.7	623.0
10°	1130.4	1067.4	945.4	829.8	736.0	657.7	589.6	547.2	511.2	502.2	494.5
12.5°	1134.2	1057.1	904.3	764.3	652.5	563.9	486.8	443.2	409.8	400.8	395.6
15°	1143.2	1050.7	869.6	705.2	578.0	479.1	403.3	366.1	339.1	330.1	327.5
17.5°	1150.9	1044.3	832.4	647.4	503.5	404.6	339.1	308.3	285.2	276.2	273.6
20°	1161.2	1035.3	795.1	592.2	438.0	345.5	287.7	260.8	242.8	236.3	235.1
22.5°	1170.2	1028.9	760.4	536.9	377.6	298.0	249.2	227.4	214.5	208.1	208.1
25°	1193.3	1031.5	730.9	485.5	332.7	260.8	219.6	203.0	192.7	188.8	188.8
27.5°	1220.3	1041.7	707.8	441.9	294.2	232.5	199.1	185.0	179.8	174.7	176.0
30°	1258.8	1062.3	692.3	405.9	265.9	210.7	182.4	172.1	167.0	165.7	165.7
32.5°	1307.6	1095.7	691.1	382.8	245.3	194.0	170.8	161.8	159.3	158.0	158.0
35°	1365.4	1125.2	683.4	372.5	232.5	182.4	161.8	155.4	154.1	154.1	154.1
37.5°	1434.8	1174.0	678.2	358.4	226.1	176.0	155.4	150.3	150.3	150.3	150.3
40°	1506.7	1213.9	670.5	345.5	223.5	172.1	151.6	145.1	145.1	145.1	145.1
42.5°	1592.8	1271.7	667.9	339.1	219.6	169.6	146.4	138.7	140.0	140.0	141.3
45°	1696.8	1337.2	666.7	332.7	218.4	167.0	141.3	132.3	133.6	132.3	132.3
47.5°	1802.2	1413.0	670.5	328.8	217.1	164.4	137.4	125.9	125.9	124.6	124.6
50°	1912.6	1482.3	673.1	325.0	214.5	159.3	131.0	120.7	118.2	115.6	116.9
52.5°	2016.7	1546.5	674.4	318.6	206.8	151.6	125.9	114.3	110.5	106.6	107.9
55°	2120.7	1608.2	676.9	310.8	196.5	143.9	119.5	107.9	102.8	97.6	97.6
57.5°	2214.5	1662.1	670.5	291.6	185.0	136.2	113.0	100.2	92.5	87.3	87.3
60°	2278.7	1700.7	651.2	263.3	169.6	127.2	106.6	92.5	83.5	79.6	79.6
62.5°	2309.5	1707.1	616.6	217.1	150.3	118.2	98.9	84.8	77.1	74.5	74.5
65°	2280.0	1678.8	562.6	163.1	129.7	107.9	91.2	78.4	70.6	64.2	64.2
67.5°	2177.2	1599.2	488.1	123.3	110.5	97.6	83.5	71.9	62.9	57.8	57.8
70°	1970.4	1433.5	377.6	98.9	93.8	84.8	75.8	64.2	56.5	50.1	50.1
72.5°	1699.4	1215.1	265.9	79.6	79.6	71.9	64.2	56.5	48.8	43.7	43.7
75°	1303.8	899.2	178.5	64.2	65.5	60.4	52.7	46.2	41.1	37.3	37.3
77.5°	711.6	444.4	109.2	47.5	48.8	46.2	41.1	37.3	34.7	30.8	30.8
80°	345.5	195.2	62.9	33.4	34.7	33.4	30.8	27.0	27.0	24.4	24.4
82.5°	145.1	73.2	33.4	23.1	23.1	20.6	19.3	19.3	19.3	18.0	18.0
85°	36.0	14.1	14.1	12.8	12.8	12.8	11.6	11.6	11.6	9.0	10.3
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.9	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)