

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: P836607

Luminaire Tested: **ARCH3-50-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836607
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: ARCH3-50-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5903 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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



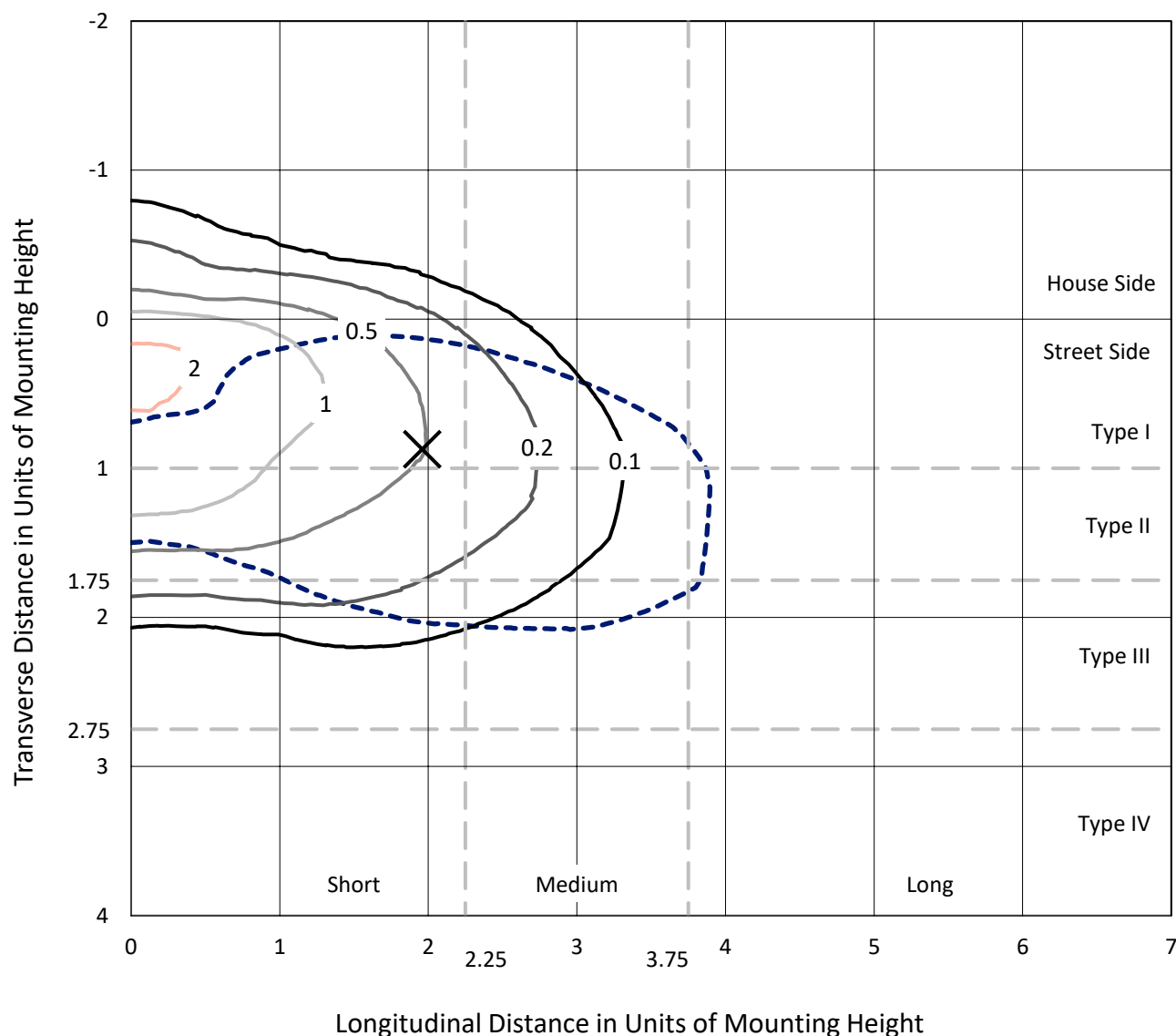
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



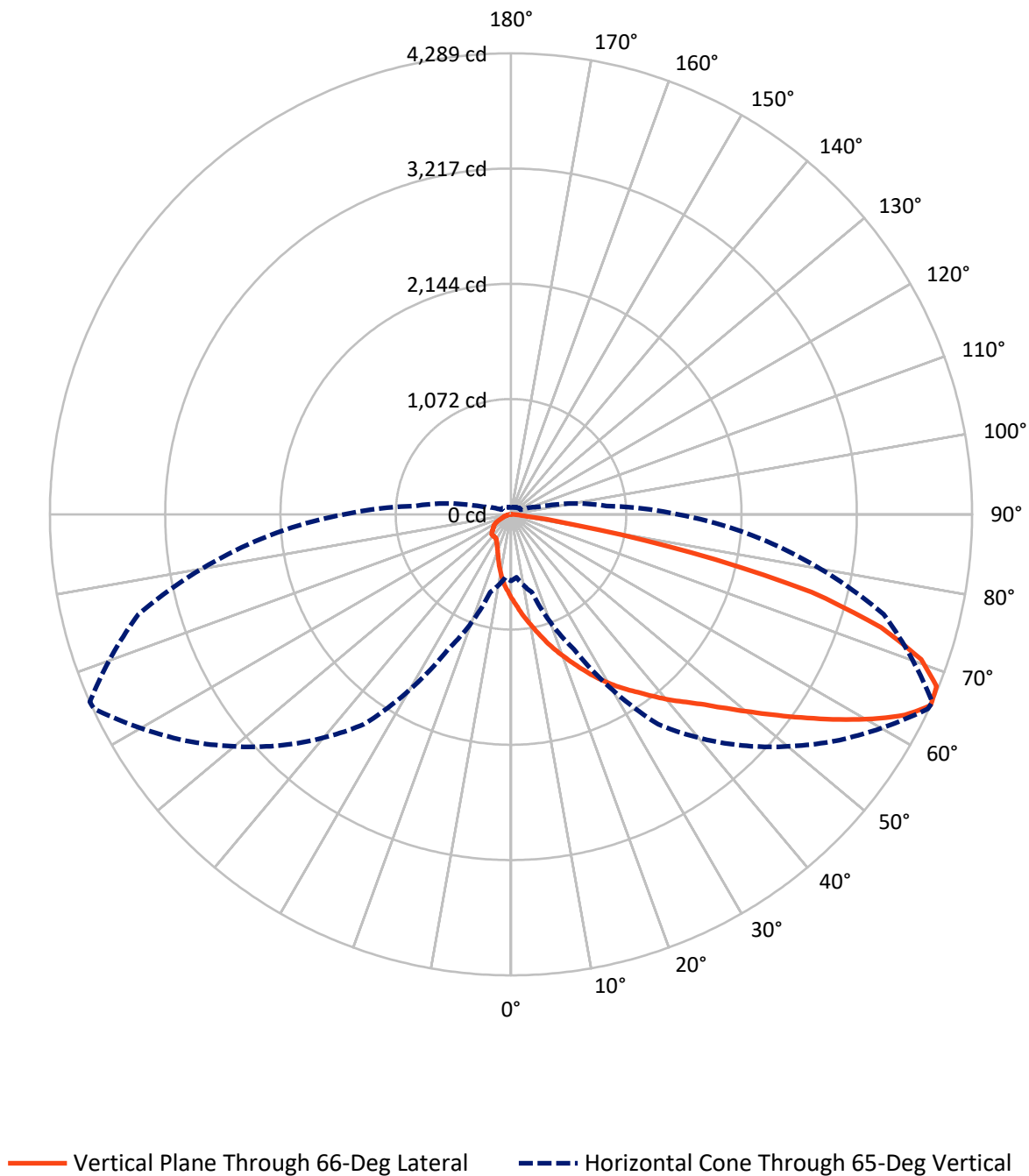
Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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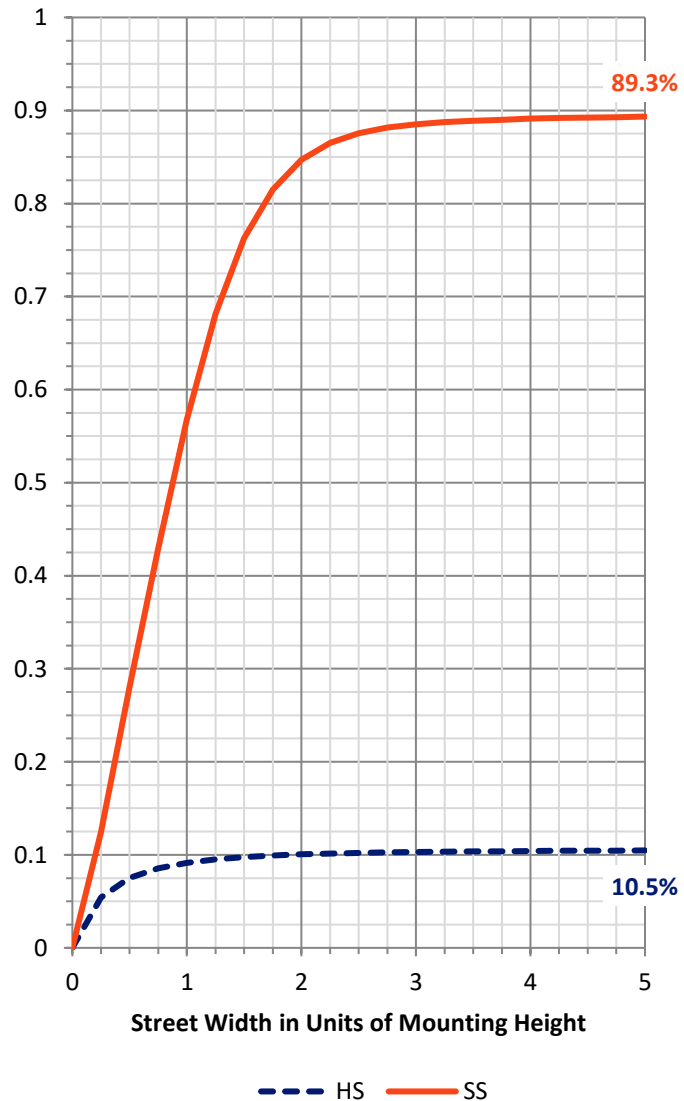
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	624.4	0.0	624.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5278.6	0.0	5278.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	5903.0	0.0	5903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.3
10°-20°	251.3	4.3
20°-30°	454.7	7.7
30°-40°	711.0	12.0
40°-50°	1078.6	18.3
50°-60°	1370.5	23.2
60°-70°	1280.5	21.7
70°-80°	636.4	10.8
80°-90°	42.8	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°	5903.0	100.0
0°-180°	5903.0	100.0

Coefficient of Utilization



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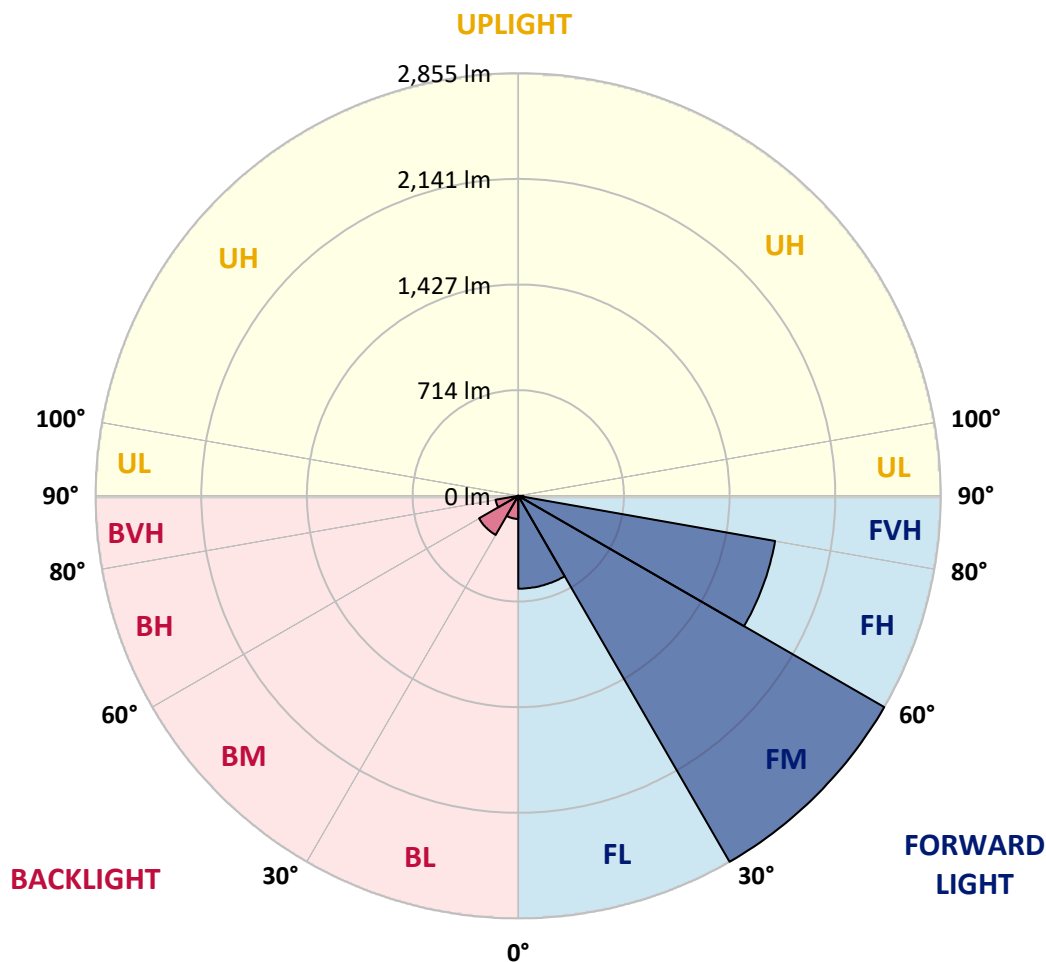
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.2	10.6			
FM	(30°-60°)	2854.8	48.4			
FH	(60°-80°)	1761.5	29.8			G1/1800
FVH	(80°-90°)	35.2	0.6			G1/100
BL	(0°-30°)	155.9	2.6	B1/500		
BM	(30°-60°)	305.4	5.2	B1/1000		
BH	(60°-80°)	155.5	2.6	B1/500		G1/500
BVH	(80°-90°)	7.6	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2
2.5°	912.5	919.9	923.6	924.8	896.4	884.0	871.6	843.1	836.9	820.8	799.8
5°	1073.4	1083.3	1080.8	1075.9	1041.2	1001.6	969.4	916.2	907.5	869.1	822.1
7.5°	1231.9	1240.6	1238.1	1219.5	1181.1	1125.4	1072.2	994.2	981.8	919.9	844.4
10°	1364.4	1371.8	1370.6	1352.0	1306.2	1238.1	1173.7	1069.7	1054.8	966.9	862.9
12.5°	1473.3	1483.2	1482.0	1469.6	1428.7	1354.5	1281.4	1156.4	1137.8	1023.9	888.9
15°	1558.7	1571.1	1571.1	1566.2	1537.7	1475.8	1392.8	1251.7	1229.4	1089.5	921.1
17.5°	1610.7	1620.6	1629.3	1638.0	1618.2	1571.1	1495.6	1347.0	1323.5	1153.9	954.6
20°	1638.0	1647.9	1654.1	1672.6	1676.4	1652.8	1593.4	1441.1	1416.4	1226.9	992.9
22.5°	1682.6	1691.2	1692.5	1708.6	1716.0	1722.2	1685.0	1534.0	1514.2	1307.4	1036.3
25°	1756.8	1766.7	1763.0	1770.5	1771.7	1779.1	1775.4	1640.5	1620.6	1399.0	1088.3
27.5°	1852.2	1864.6	1862.1	1854.6	1843.5	1837.3	1853.4	1748.2	1729.6	1490.7	1141.5
30°	1954.9	1969.8	1966.1	1951.2	1921.5	1895.5	1917.8	1849.7	1832.4	1584.7	1200.9
32.5°	2058.9	2076.3	2075.0	2050.3	1999.5	1954.9	1988.4	1945.0	1932.6	1686.3	1265.3
35°	2127.0	2149.3	2146.8	2132.0	2066.4	2028.0	2068.8	2042.8	2034.2	1810.1	1358.2
37.5°	2237.2	2260.7	2239.7	2202.5	2127.0	2107.2	2156.7	2153.0	2146.8	1941.3	1456.0
40°	2504.6	2539.3	2483.6	2331.3	2207.5	2190.2	2260.7	2275.6	2269.4	2071.3	1543.9
42.5°	2784.4	2836.4	2749.8	2539.3	2353.6	2290.5	2374.6	2395.7	2388.3	2182.7	1623.1
45°	2954.1	2976.3	2889.7	2726.3	2612.4	2411.8	2496.0	2530.6	2524.4	2316.5	1724.6
47.5°	3092.7	3084.1	2985.0	2874.8	2895.9	2582.6	2633.4	2701.5	2696.5	2463.8	1836.1
50°	3122.4	3102.6	3063.0	2993.7	3049.4	2756.0	2778.3	2895.9	2890.9	2627.2	1948.7
52.5°	2913.2	2887.2	2994.9	3053.1	3034.5	2882.3	2938.0	3108.8	3106.3	2804.3	2056.5
55°	2390.7	2369.7	2659.4	2960.3	3018.4	2971.4	3115.0	3330.4	3344.1	2992.4	2154.3
57.5°	1880.6	1858.4	2143.1	2727.5	2959.0	3053.1	3321.8	3584.2	3601.6	3196.7	2247.1
60°	1499.3	1465.9	1683.8	2361.0	2847.6	3116.3	3521.1	3862.8	3865.3	3383.7	2304.1
62.5°	1018.9	981.8	1223.2	1896.7	2660.6	3126.2	3674.6	4103.0	4112.9	3523.6	2314.0
65°	619.0	588.1	751.5	1385.4	2384.5	3042.0	3677.1	4280.0	4288.7	3588.0	2254.5
67.5°	359.0	346.7	429.6	862.9	1926.5	2815.4	3522.3	4252.8	4268.9	3560.7	2119.6
70°	209.2	208.0	238.9	427.1	1359.4	2366.0	3176.9	4023.8	4047.3	3418.3	1912.8
72.5°	153.5	156.0	168.4	229.0	787.4	1703.6	2690.4	3563.2	3599.1	3139.8	1618.2
75°	121.3	122.6	133.7	156.0	413.5	963.2	2015.6	2860.0	2888.4	2643.3	1264.1
77.5°	90.4	92.9	101.5	110.2	191.9	442.0	1134.1	1761.8	1714.7	1451.0	610.4
80°	65.6	71.8	75.5	79.2	101.5	170.9	340.5	614.1	609.1	633.9	288.5
82.5°	42.1	47.0	50.8	53.2	60.7	81.7	101.5	137.4	148.6	246.4	115.1
85°	18.6	21.0	23.5	28.5	26.0	28.5	42.1	27.2	23.5	37.1	21.0
87.5°	0.0	0.0	3.7	6.2	5.0	2.5	7.4	5.0	3.7	3.7	3.7
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°	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2	781.2
2.5°	788.7	775.0	746.6	719.3	703.2	682.2	663.6	646.3	645.0	640.1	631.4
5°	798.6	772.6	719.3	668.6	630.2	589.3	554.7	527.4	517.5	510.1	500.2
7.5°	808.5	767.6	688.4	614.1	553.4	496.5	455.6	418.5	407.3	397.4	391.2
10°	812.2	758.9	652.5	553.4	474.2	413.5	370.2	342.9	333.0	328.1	324.4
12.5°	823.3	754.0	619.0	496.5	404.9	349.1	318.2	302.1	298.4	294.7	290.9
15°	838.2	754.0	585.6	440.8	350.4	305.8	287.2	276.1	273.6	272.4	269.9
17.5°	854.3	754.0	553.4	393.7	310.8	277.3	263.7	257.5	256.3	255.0	253.8
20°	876.6	755.2	518.8	352.9	282.3	256.3	245.1	237.7	236.5	235.2	235.2
22.5°	898.8	757.7	485.3	321.9	263.7	240.2	226.6	219.1	216.7	216.7	216.7
25°	927.3	765.1	454.4	295.9	247.6	225.3	208.0	201.8	200.6	200.6	199.3
27.5°	960.8	773.8	427.1	276.1	231.5	208.0	190.7	184.5	182.0	182.0	180.8
30°	996.7	782.5	404.9	261.2	215.4	190.7	174.6	167.1	164.7	165.9	164.7
32.5°	1036.3	794.8	387.5	251.3	200.6	175.8	161.0	152.3	151.0	151.0	149.8
35°	1103.1	829.5	385.0	246.4	188.2	164.7	149.8	141.1	139.9	139.9	138.7
37.5°	1174.9	869.1	396.2	243.9	178.3	154.8	141.1	132.5	131.2	131.2	131.2
40°	1235.6	898.8	408.6	243.9	172.1	146.1	133.7	126.3	126.3	126.3	126.3
42.5°	1276.5	901.3	406.1	243.9	167.1	139.9	128.8	121.3	121.3	122.6	121.3
45°	1337.1	913.7	396.2	240.2	163.4	135.0	123.8	117.6	116.4	117.6	117.6
47.5°	1408.9	936.0	386.3	225.3	162.2	130.0	120.1	112.7	111.4	112.7	111.4
50°	1477.0	955.8	381.3	205.5	159.7	125.0	115.1	107.7	106.5	107.7	106.5
52.5°	1534.0	964.5	372.7	191.9	153.5	120.1	110.2	102.8	100.3	101.5	101.5
55°	1579.8	962.0	360.3	180.8	142.4	115.1	104.0	97.8	94.1	94.1	92.9
57.5°	1621.9	963.2	349.1	169.6	130.0	107.7	99.0	91.6	86.7	85.4	84.2
60°	1638.0	957.0	329.3	154.8	117.6	101.5	92.9	84.2	79.2	78.0	76.8
62.5°	1615.7	934.8	303.3	128.8	106.5	94.1	86.7	78.0	73.0	71.8	70.6
65°	1552.6	892.7	263.7	101.5	96.6	85.4	79.2	73.0	66.9	64.4	63.1
67.5°	1444.8	832.0	214.2	81.7	85.4	78.0	74.3	66.9	59.4	57.0	55.7
70°	1291.3	751.5	161.0	69.3	75.5	69.3	66.9	59.4	53.2	50.8	49.5
72.5°	1075.9	621.5	112.7	59.4	65.6	60.7	58.2	53.2	47.0	43.3	43.3
75°	813.4	445.7	74.3	50.8	54.5	52.0	48.3	44.6	40.9	38.4	37.1
77.5°	350.4	173.3	45.8	38.4	44.6	43.3	38.4	35.9	34.7	32.2	32.2
80°	151.0	70.6	28.5	28.5	32.2	31.0	29.7	27.2	27.2	26.0	24.8
82.5°	55.7	28.5	17.3	21.0	23.5	21.0	21.0	21.0	21.0	19.8	19.8
85°	13.6	8.7	8.7	12.4	13.6	12.4	13.6	12.4	12.4	12.4	11.1
87.5°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	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)