

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: P836616

Luminaire Tested: **ARCH3-50-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836616
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: ARCH3-50-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 6117 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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



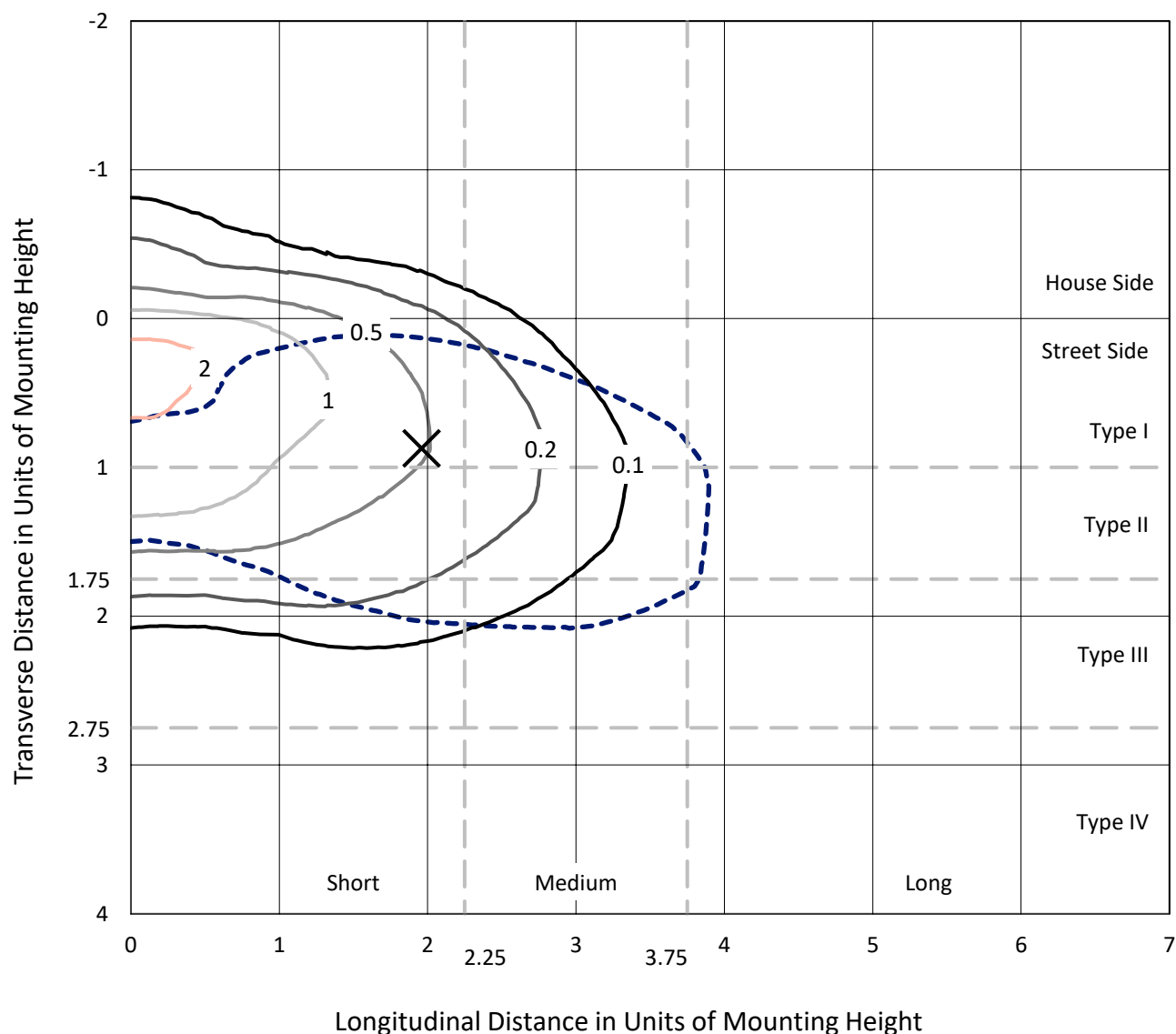
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

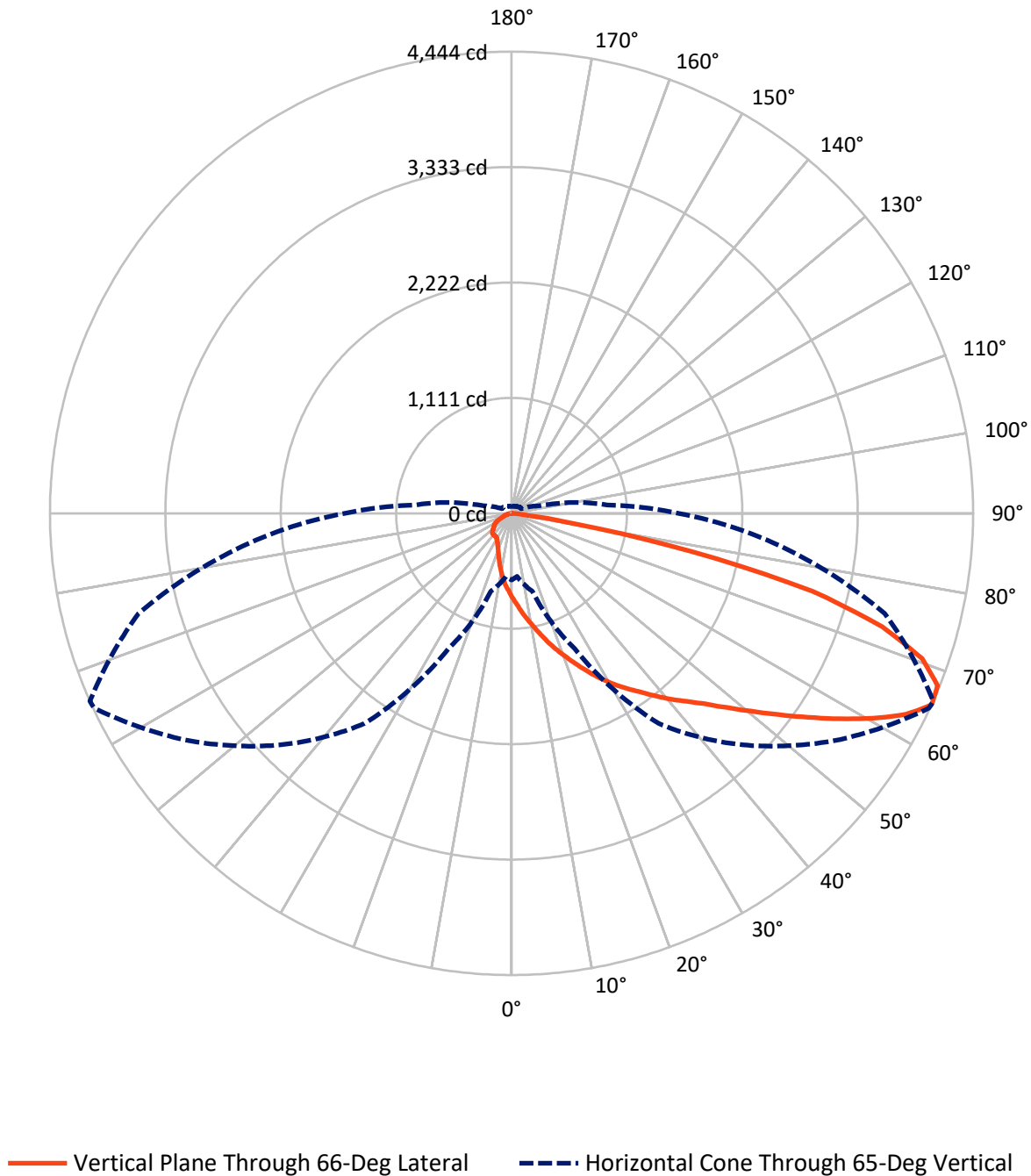


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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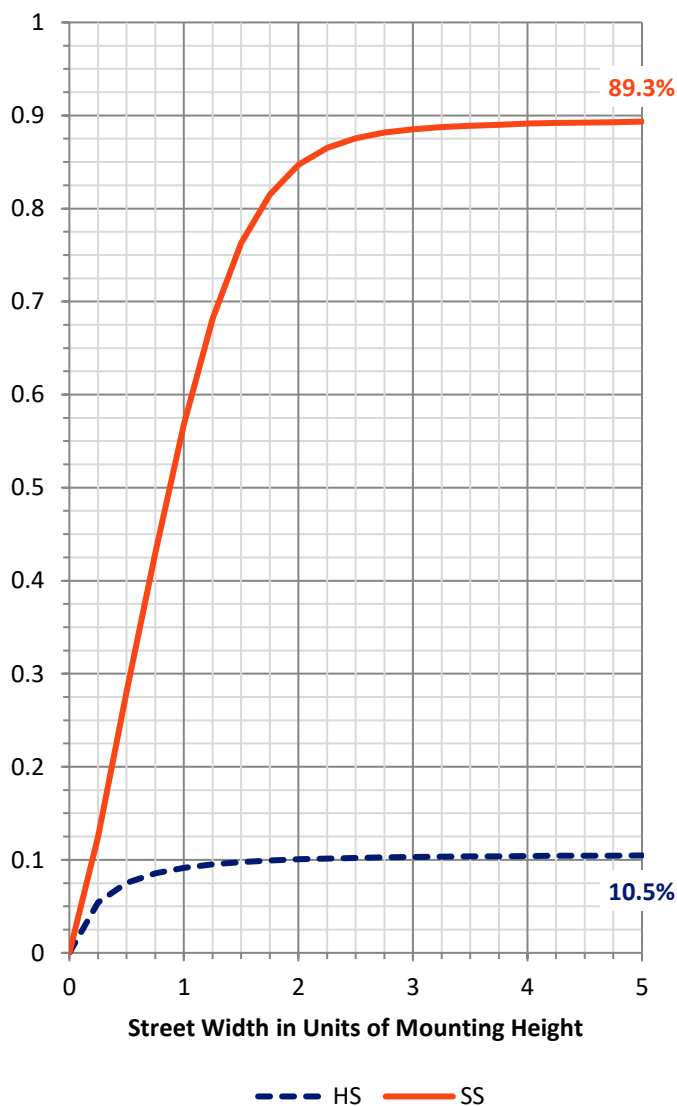
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.0	0.0	647.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5470.0	0.0	5470.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	6117.0	0.0	6117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.3
10°-20°	260.4	4.3
20°-30°	471.2	7.7
30°-40°	736.8	12.0
40°-50°	1117.7	18.3
50°-60°	1420.1	23.2
60°-70°	1327.0	21.7
70°-80°	659.5	10.8
80°-90°	44.3	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°	6117.0	100.0
0°-180°	6117.0	100.0

Coefficient of Utilization



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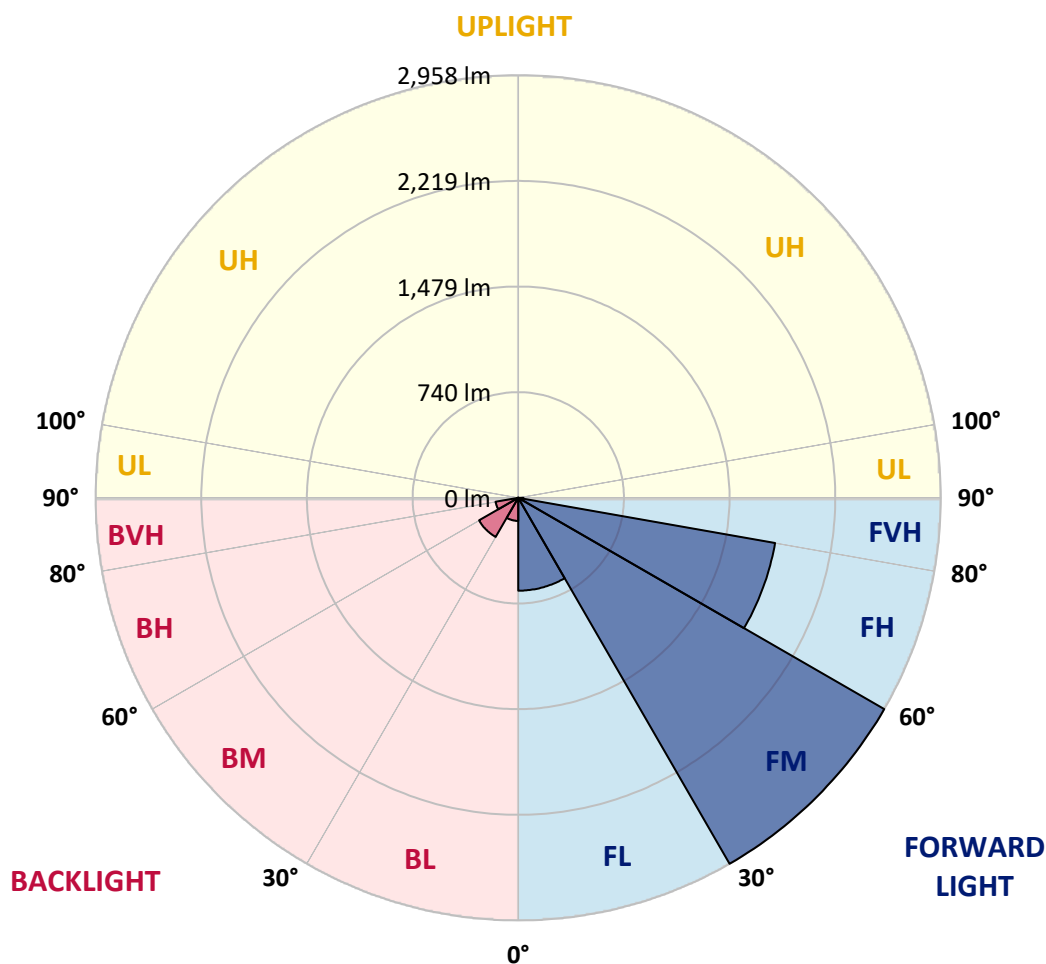
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	649.9	10.6			
FM	(30°-60°)	2958.3	48.4			
FH	(60°-80°)	1825.3	29.8			G2/5000
FVH	(80°-90°)	36.5	0.6			G1/100
BL	(0°-30°)	161.6	2.6	B1/500		
BM	(30°-60°)	316.4	5.2	B1/1000		
BH	(60°-80°)	161.1	2.6	B1/500		G1/500
BVH	(80°-90°)	7.8	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°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	945.5	953.2	957.1	958.4	928.9	916.0	903.2	873.7	867.3	850.6	828.8
5°	1112.3	1122.6	1120.0	1114.9	1079.0	1037.9	1004.6	949.4	940.4	900.6	851.9
7.5°	1276.6	1285.5	1283.0	1263.7	1223.9	1166.2	1111.0	1030.2	1017.4	953.2	875.0
10°	1413.8	1421.5	1420.2	1401.0	1353.5	1283.0	1216.3	1108.5	1093.1	1002.0	894.2
12.5°	1526.7	1537.0	1535.7	1522.9	1480.5	1403.6	1327.9	1198.3	1179.0	1061.0	921.2
15°	1615.3	1628.1	1628.1	1623.0	1593.4	1529.3	1443.3	1297.1	1274.0	1129.0	954.5
17.5°	1669.1	1679.4	1688.4	1697.4	1676.8	1628.1	1549.8	1395.9	1371.5	1195.7	989.2
20°	1697.4	1707.6	1714.0	1733.3	1737.1	1712.8	1651.2	1493.4	1467.7	1271.4	1028.9
22.5°	1743.6	1752.5	1753.8	1770.5	1778.2	1784.6	1746.1	1589.6	1569.1	1354.8	1073.8
25°	1820.5	1830.8	1826.9	1834.6	1835.9	1843.6	1839.8	1699.9	1679.4	1449.8	1127.7
27.5°	1919.3	1932.1	1929.6	1921.9	1910.3	1903.9	1920.6	1811.5	1792.3	1544.7	1182.9
30°	2025.8	2041.2	2037.3	2022.0	1991.2	1964.2	1987.3	1916.8	1898.8	1642.2	1244.5
32.5°	2133.6	2151.5	2150.3	2124.6	2072.0	2025.8	2060.4	2015.5	2002.7	1747.4	1311.2
35°	2204.1	2227.2	2224.7	2209.3	2141.3	2101.5	2143.8	2116.9	2107.9	1875.7	1407.4
37.5°	2318.3	2342.7	2320.9	2282.4	2204.1	2183.6	2234.9	2231.1	2224.7	2011.7	1508.8
40°	2595.4	2631.4	2573.6	2415.8	2287.5	2269.6	2342.7	2358.1	2351.7	2146.4	1599.9
42.5°	2885.4	2939.3	2849.5	2631.4	2438.9	2373.5	2460.7	2482.5	2474.8	2261.9	1682.0
45°	3061.2	3084.2	2994.4	2825.1	2707.1	2499.2	2586.5	2622.4	2616.0	2400.4	1787.2
47.5°	3204.8	3195.9	3093.2	2979.0	3000.9	2676.3	2728.9	2799.4	2794.3	2553.1	1902.6
50°	3235.6	3215.1	3174.1	3102.2	3159.9	2855.9	2879.0	3000.9	2995.7	2722.5	2019.4
52.5°	3018.8	2991.9	3103.5	3163.8	3144.5	2986.7	3044.5	3221.5	3219.0	2905.9	2131.0
55°	2477.4	2455.6	2755.8	3067.6	3127.9	3079.1	3227.9	3451.2	3465.3	3100.9	2232.4
57.5°	1948.8	1925.7	2220.8	2826.4	3066.3	3163.8	3442.2	3714.2	3732.1	3312.6	2328.6
60°	1553.7	1519.0	1744.8	2446.6	2950.8	3229.2	3648.8	4002.9	4005.4	3506.3	2387.6
62.5°	1055.9	1017.4	1267.6	1965.5	2757.1	3239.5	3807.8	4251.7	4262.0	3651.3	2397.9
65°	641.5	609.4	778.8	1435.6	2471.0	3152.2	3810.4	4435.2	4444.2	3718.0	2336.3
67.5°	372.1	359.2	445.2	894.2	1996.3	2917.5	3650.0	4407.0	4423.7	3689.8	2196.4
70°	216.8	215.5	247.6	442.6	1408.7	2451.7	3292.1	4169.6	4194.0	3542.3	1982.2
72.5°	159.1	161.7	174.5	237.3	816.0	1765.4	2787.9	3692.4	3729.6	3253.6	1676.8
75°	125.7	127.0	138.6	161.7	428.5	998.1	2088.7	2963.7	2993.2	2739.1	1309.9
77.5°	93.7	96.2	105.2	114.2	198.9	458.0	1175.2	1825.7	1776.9	1503.6	632.5
80°	68.0	74.4	78.3	82.1	105.2	177.0	352.8	636.4	631.2	656.9	298.9
82.5°	43.6	48.8	52.6	55.2	62.9	84.7	105.2	142.4	154.0	255.3	119.3
85°	19.2	21.8	24.4	29.5	26.9	29.5	43.6	28.2	24.4	38.5	21.8
87.5°	0.0	0.0	3.8	6.4	5.1	2.6	7.7	5.1	3.8	3.8	3.8
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°	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6	809.6
2.5°	817.2	803.1	773.6	745.4	728.7	706.9	687.7	669.7	668.4	663.3	654.3
5°	827.5	800.6	745.4	692.8	653.0	610.7	574.8	546.5	536.3	528.6	518.3
7.5°	837.8	795.4	713.3	636.4	573.5	514.5	472.1	433.6	422.1	411.8	405.4
10°	841.6	786.5	676.1	573.5	491.4	428.5	383.6	355.4	345.1	340.0	336.1
12.5°	853.2	781.3	641.5	514.5	419.5	361.8	329.7	313.0	309.2	305.3	301.5
15°	868.6	781.3	606.8	456.7	363.1	316.9	297.6	286.1	283.5	282.3	279.7
17.5°	885.2	781.3	573.5	408.0	322.0	287.4	273.3	266.9	265.6	264.3	263.0
20°	908.3	782.6	537.6	365.6	292.5	265.6	254.0	246.3	245.0	243.8	243.8
22.5°	931.4	785.2	502.9	333.6	273.3	248.9	234.8	227.1	224.5	224.5	224.5
25°	960.9	792.9	470.8	306.6	256.6	233.5	215.5	209.1	207.8	207.8	206.6
27.5°	995.6	801.9	442.6	286.1	239.9	215.5	197.6	191.2	188.6	188.6	187.3
30°	1032.8	810.8	419.5	270.7	223.2	197.6	180.9	173.2	170.6	171.9	170.6
32.5°	1073.8	823.7	401.6	260.4	207.8	182.2	166.8	157.8	156.5	156.5	155.2
35°	1143.1	859.6	399.0	255.3	195.0	170.6	155.2	146.3	145.0	145.0	143.7
37.5°	1217.5	900.6	410.5	252.7	184.7	160.4	146.3	137.3	136.0	136.0	136.0
40°	1280.4	931.4	423.4	252.7	178.3	151.4	138.6	130.9	130.9	130.9	130.9
42.5°	1322.7	934.0	420.8	252.7	173.2	145.0	133.4	125.7	125.7	127.0	125.7
45°	1385.6	946.8	410.5	248.9	169.4	139.8	128.3	121.9	120.6	121.9	121.9
47.5°	1460.0	969.9	400.3	233.5	168.1	134.7	124.4	116.7	115.5	116.7	115.5
50°	1530.6	990.4	395.2	213.0	165.5	129.6	119.3	111.6	110.3	111.6	110.3
52.5°	1589.6	999.4	386.2	198.9	159.1	124.4	114.2	106.5	103.9	105.2	105.2
55°	1637.1	996.9	373.3	187.3	147.5	119.3	107.8	101.4	97.5	97.5	96.2
57.5°	1680.7	998.1	361.8	175.8	134.7	111.6	102.6	94.9	89.8	88.5	87.2
60°	1697.4	991.7	341.3	160.4	121.9	105.2	96.2	87.2	82.1	80.8	79.5
62.5°	1674.3	968.6	314.3	133.4	110.3	97.5	89.8	80.8	75.7	74.4	73.1
65°	1608.8	925.0	273.3	105.2	100.1	88.5	82.1	75.7	69.3	66.7	65.4
67.5°	1497.2	862.2	222.0	84.7	88.5	80.8	77.0	69.3	61.6	59.0	57.7
70°	1338.1	778.8	166.8	71.8	78.3	71.8	69.3	61.6	55.2	52.6	51.3
72.5°	1114.9	644.0	116.7	61.6	68.0	62.9	60.3	55.2	48.8	44.9	44.9
75°	842.9	461.9	77.0	52.6	56.5	53.9	50.0	46.2	42.3	39.8	38.5
77.5°	363.1	179.6	47.5	39.8	46.2	44.9	39.8	37.2	35.9	33.4	33.4
80°	156.5	73.1	29.5	29.5	33.4	32.1	30.8	28.2	28.2	26.9	25.7
82.5°	57.7	29.5	18.0	21.8	24.4	21.8	21.8	21.8	21.8	20.5	20.5
85°	14.1	9.0	9.0	12.8	14.1	12.8	14.1	12.8	12.8	12.8	11.5
87.5°	3.8	3.8	5.1	5.1	5.1	5.1	5.1	3.8	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)