

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: P836562

Luminaire Tested: **ARCH3-40-740-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836562
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: ARCH3-40-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5256 lumens
Efficiency: N/A
Efficacy: 120.6 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): 43.6
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

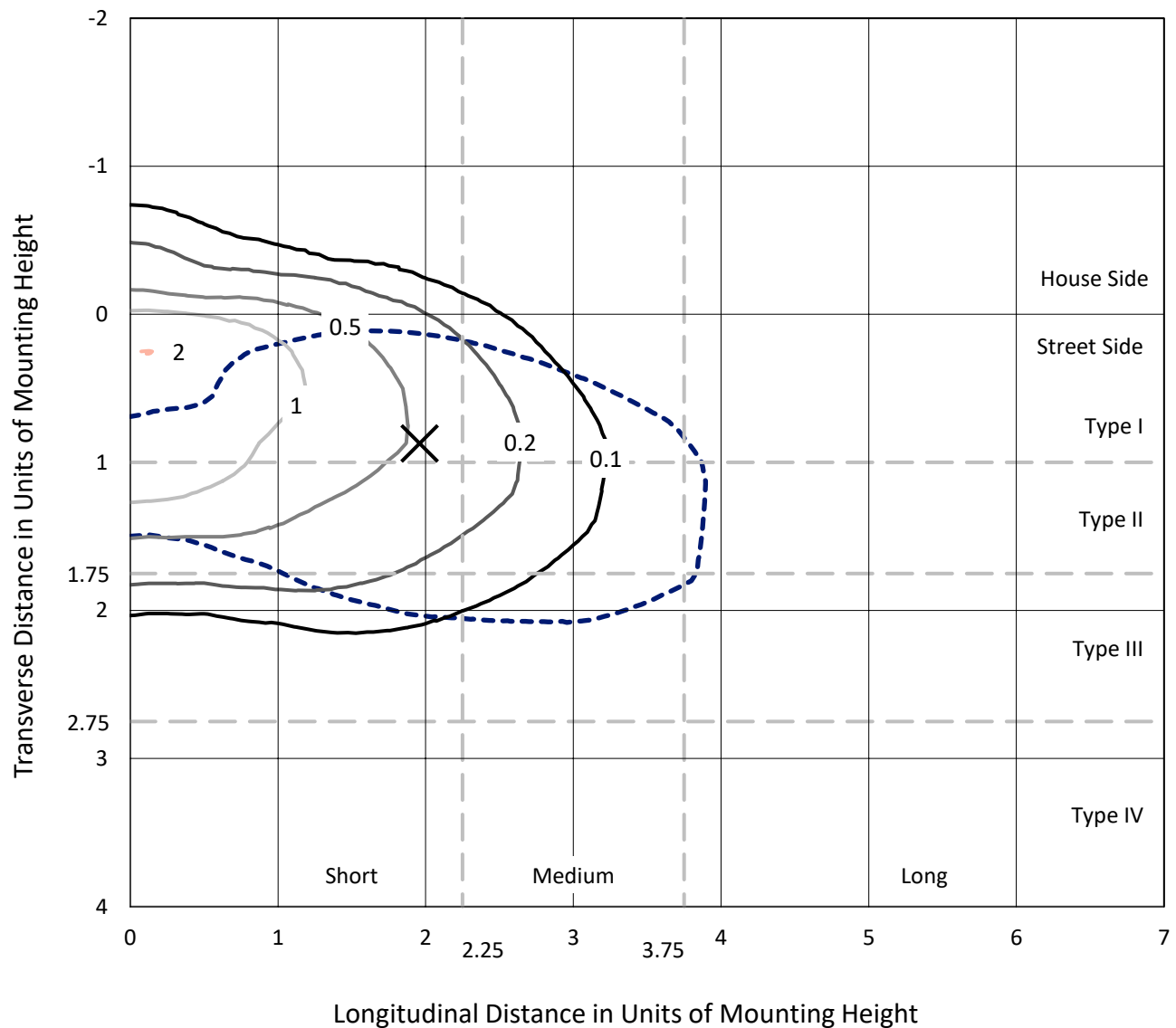


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

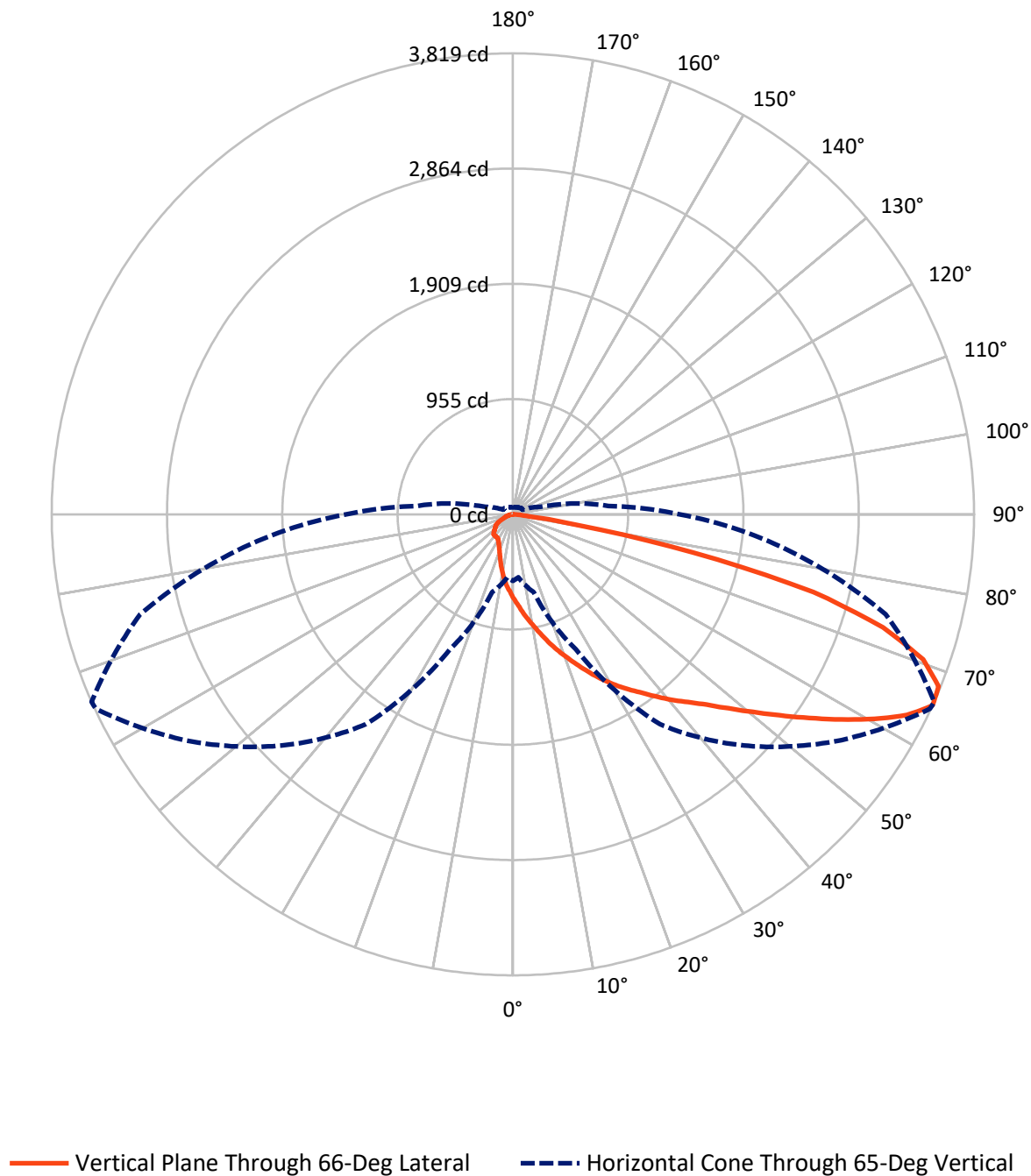


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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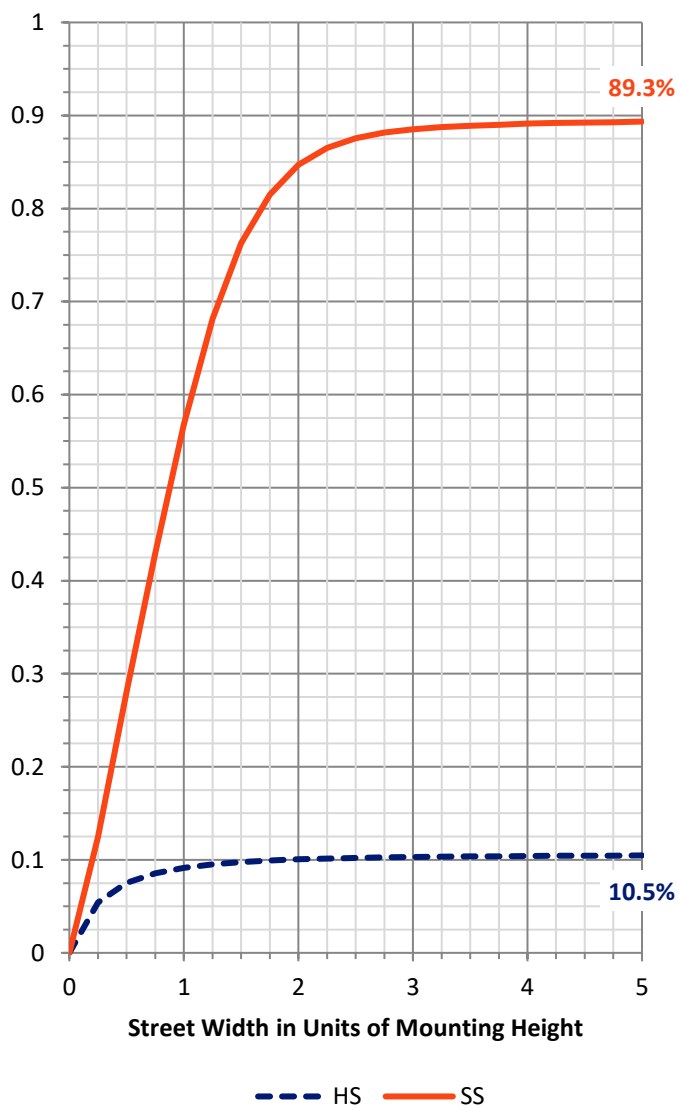
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.9	0.0	555.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4700.1	0.0	4700.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	5256.0	0.0	5256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.3
10°-20°	223.8	4.3
20°-30°	404.9	7.7
30°-40°	633.1	12.0
40°-50°	960.4	18.3
50°-60°	1220.2	23.2
60°-70°	1140.2	21.7
70°-80°	566.7	10.8
80°-90°	38.1	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°	5256.0	100.0
0°-180°	5256.0	100.0

Coefficient of Utilization



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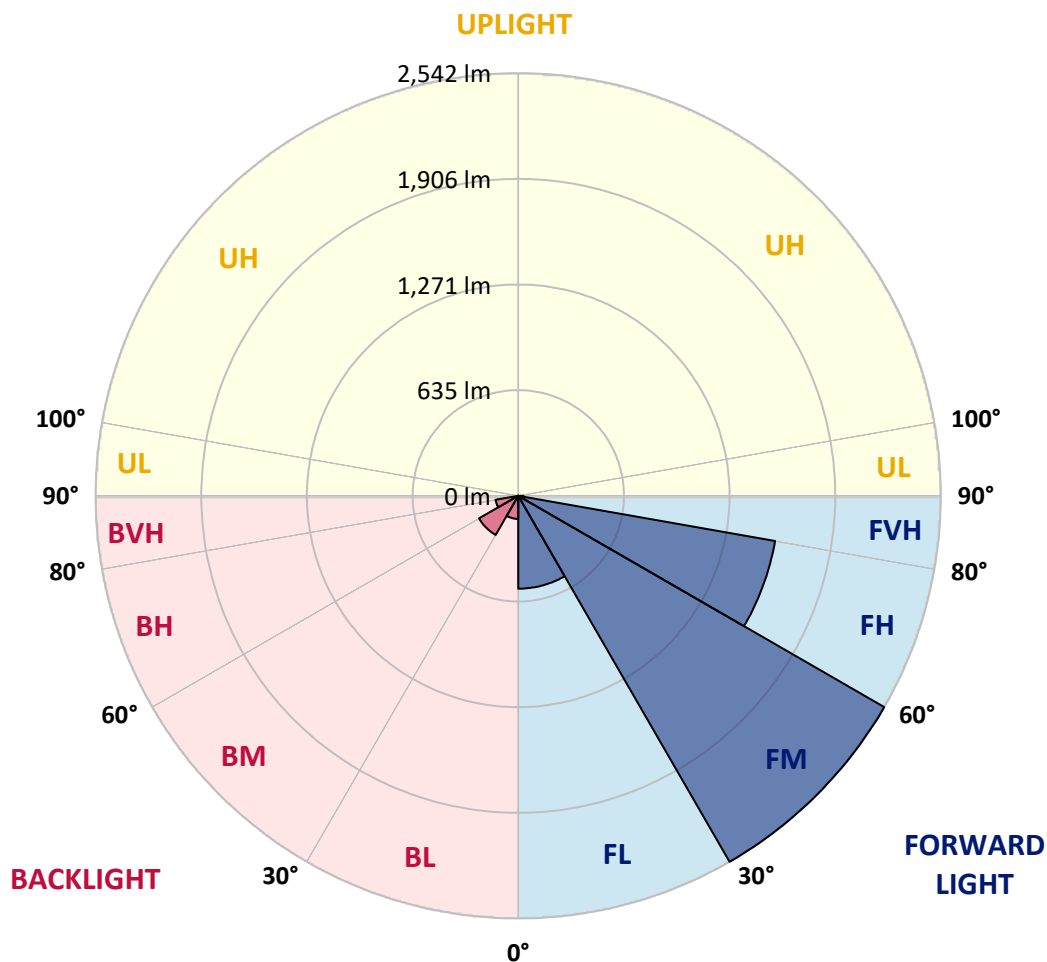
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.5	10.6			
FM	(30°-60°)	2541.9	48.4			
FH	(60°-80°)	1568.4	29.8			G1/1800
FVH	(80°-90°)	31.3	0.6			G1/100
BL	(0°-30°)	138.8	2.6	B1/500		
BM	(30°-60°)	271.9	5.2	B1/1000		
BH	(60°-80°)	138.5	2.6	B1/500		G1/500
BVH	(80°-90°)	6.7	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°	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6
2.5°	812.5	819.1	822.4	823.5	798.1	787.1	776.1	750.7	745.2	730.9	712.1
5°	955.8	964.6	962.4	958.0	927.1	891.8	863.2	815.8	808.0	773.9	732.0
7.5°	1096.9	1104.6	1102.4	1085.8	1051.7	1002.1	954.7	885.2	874.2	819.1	751.8
10°	1214.8	1221.4	1220.3	1203.8	1163.0	1102.4	1045.1	952.5	939.2	861.0	768.4
12.5°	1311.8	1320.7	1319.6	1308.5	1272.1	1206.0	1141.0	1029.6	1013.1	911.7	791.5
15°	1387.9	1398.9	1398.9	1394.5	1369.2	1314.0	1240.2	1114.5	1094.7	970.1	820.2
17.5°	1434.2	1443.0	1450.7	1458.5	1440.8	1398.9	1331.7	1199.4	1178.4	1027.4	849.9
20°	1458.5	1467.3	1472.8	1489.3	1492.6	1471.7	1418.8	1283.2	1261.1	1092.5	884.1
22.5°	1498.1	1505.9	1507.0	1521.3	1527.9	1533.4	1500.3	1365.9	1348.2	1164.1	922.7
25°	1564.3	1573.1	1569.8	1576.4	1577.5	1584.1	1580.8	1460.7	1443.0	1245.7	969.0
27.5°	1649.2	1660.2	1658.0	1651.4	1641.4	1635.9	1650.3	1556.6	1540.0	1327.3	1016.4
30°	1740.7	1753.9	1750.6	1737.4	1710.9	1687.7	1707.6	1647.0	1631.5	1411.0	1069.3
32.5°	1833.3	1848.7	1847.6	1825.5	1780.3	1740.7	1770.4	1731.8	1720.8	1501.4	1126.6
35°	1893.9	1913.7	1911.5	1898.3	1839.9	1805.7	1842.1	1818.9	1811.2	1611.7	1209.3
37.5°	1992.0	2012.9	1994.2	1961.1	1893.9	1876.3	1920.3	1917.0	1911.5	1728.5	1296.4
40°	2230.1	2261.0	2211.4	2075.8	1965.5	1950.1	2012.9	2026.2	2020.7	1844.3	1374.7
42.5°	2479.3	2525.6	2448.4	2261.0	2095.6	2039.4	2114.4	2133.1	2126.5	1943.5	1445.2
45°	2630.3	2650.1	2573.0	2427.4	2326.0	2147.4	2222.4	2253.3	2247.8	2062.6	1535.6
47.5°	2753.7	2746.0	2657.8	2559.7	2578.5	2299.6	2344.8	2405.4	2401.0	2193.7	1634.8
50°	2780.2	2762.6	2727.3	2665.6	2715.2	2453.9	2473.7	2578.5	2574.1	2339.3	1735.1
52.5°	2593.9	2570.8	2666.7	2718.5	2701.9	2566.3	2616.0	2768.1	2765.9	2496.9	1831.1
55°	2128.7	2110.0	2367.9	2635.8	2687.6	2645.7	2773.6	2965.4	2977.5	2664.5	1918.1
57.5°	1674.5	1654.7	1908.2	2428.5	2634.7	2718.5	2957.7	3191.4	3206.8	2846.3	2000.8
60°	1335.0	1305.2	1499.2	2102.2	2535.5	2774.7	3135.2	3439.4	3441.6	3012.8	2051.5
62.5°	907.3	874.2	1089.2	1688.8	2369.0	2783.5	3271.9	3653.3	3662.1	3137.4	2060.4
65°	551.2	523.6	669.1	1233.6	2123.2	2708.6	3274.1	3810.9	3818.6	3194.7	2007.4
67.5°	319.7	308.7	382.5	768.4	1715.3	2506.8	3136.3	3786.7	3801.0	3170.4	1887.3
70°	186.3	185.2	212.8	380.3	1210.4	2106.7	2828.7	3582.7	3603.7	3043.7	1703.2
72.5°	136.7	138.9	149.9	203.9	701.1	1516.9	2395.5	3172.7	3204.6	2795.6	1440.8
75°	108.0	109.1	119.1	138.9	368.2	857.7	1794.7	2546.5	2571.9	2353.6	1125.5
77.5°	80.5	82.7	90.4	98.1	170.9	393.6	1009.8	1568.7	1526.8	1292.0	543.5
80°	58.4	63.9	67.2	70.6	90.4	152.1	303.2	546.8	542.4	564.4	256.9
82.5°	37.5	41.9	45.2	47.4	54.0	72.8	90.4	122.4	132.3	219.4	102.5
85°	16.5	18.7	20.9	25.4	23.2	25.4	37.5	24.3	20.9	33.1	18.7
87.5°	0.0	0.0	3.3	5.5	4.4	2.2	6.6	4.4	3.3	3.3	3.3
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°	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6	695.6
2.5°	702.2	690.1	664.7	640.5	626.2	607.4	590.9	575.4	574.3	569.9	562.2
5°	711.0	687.9	640.5	595.3	561.1	524.7	493.9	469.6	460.8	454.2	445.4
7.5°	719.9	683.5	612.9	546.8	492.8	442.1	405.7	372.6	362.7	353.9	348.4
10°	723.2	675.8	581.0	492.8	422.2	368.2	329.6	305.4	296.5	292.1	288.8
12.5°	733.1	671.4	551.2	442.1	360.5	310.9	283.3	269.0	265.7	262.4	259.1
15°	746.3	671.4	521.4	392.4	312.0	272.3	255.8	245.8	243.6	242.5	240.3
17.5°	760.6	671.4	492.8	350.6	276.7	246.9	234.8	229.3	228.2	227.1	226.0
20°	780.5	672.5	461.9	314.2	251.3	228.2	218.3	211.7	210.6	209.5	209.5
22.5°	800.3	674.7	432.1	286.6	234.8	213.9	201.7	195.1	192.9	192.9	192.9
25°	825.7	681.3	404.6	263.5	220.5	200.6	185.2	179.7	178.6	178.6	177.5
27.5°	855.4	689.0	380.3	245.8	206.1	185.2	169.8	164.3	162.1	162.1	160.9
30°	887.4	696.7	360.5	232.6	191.8	169.8	155.4	148.8	146.6	147.7	146.6
32.5°	922.7	707.7	345.0	223.8	178.6	156.5	143.3	135.6	134.5	134.5	133.4
35°	982.2	738.6	342.8	219.4	167.6	146.6	133.4	125.7	124.6	124.6	123.5
37.5°	1046.2	773.9	352.8	217.2	158.7	137.8	125.7	118.0	116.9	116.9	116.9
40°	1100.2	800.3	363.8	217.2	153.2	130.1	119.1	112.4	112.4	112.4	112.4
42.5°	1136.6	802.5	361.6	217.2	148.8	124.6	114.6	108.0	108.0	109.1	108.0
45°	1190.6	813.6	352.8	213.9	145.5	120.2	110.2	104.7	103.6	104.7	104.7
47.5°	1254.5	833.4	343.9	200.6	144.4	115.8	106.9	100.3	99.2	100.3	99.2
50°	1315.1	851.0	339.5	183.0	142.2	111.3	102.5	95.9	94.8	95.9	94.8
52.5°	1365.9	858.8	331.8	170.9	136.7	106.9	98.1	91.5	89.3	90.4	90.4
55°	1406.6	856.6	320.8	160.9	126.8	102.5	92.6	87.1	83.8	83.8	82.7
57.5°	1444.1	857.7	310.9	151.0	115.8	95.9	88.2	81.6	77.2	76.1	75.0
60°	1458.5	852.1	293.2	137.8	104.7	90.4	82.7	75.0	70.6	69.5	68.3
62.5°	1438.6	832.3	270.1	114.6	94.8	83.8	77.2	69.5	65.0	63.9	62.8
65°	1382.4	794.8	234.8	90.4	86.0	76.1	70.6	65.0	59.5	57.3	56.2
67.5°	1286.5	740.8	190.7	72.8	76.1	69.5	66.1	59.5	52.9	50.7	49.6
70°	1149.8	669.1	143.3	61.7	67.2	61.7	59.5	52.9	47.4	45.2	44.1
72.5°	958.0	553.4	100.3	52.9	58.4	54.0	51.8	47.4	41.9	38.6	38.6
75°	724.3	396.9	66.1	45.2	48.5	46.3	43.0	39.7	36.4	34.2	33.1
77.5°	312.0	154.3	40.8	34.2	39.7	38.6	34.2	32.0	30.9	28.7	28.7
80°	134.5	62.8	25.4	25.4	28.7	27.6	26.5	24.3	24.3	23.2	22.0
82.5°	49.6	25.4	15.4	18.7	20.9	18.7	18.7	18.7	18.7	17.6	17.6
85°	12.1	7.7	7.7	11.0	12.1	11.0	12.1	11.0	11.0	11.0	9.9
87.5°	3.3	3.3	4.4	4.4	4.4	4.4	4.4	3.3	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)