

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: P836544

Luminaire Tested: **ARCH3-40-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836544
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: ARCH3-40-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 5005.9 lumens
Efficiency: N/A
Efficacy: 114.8 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

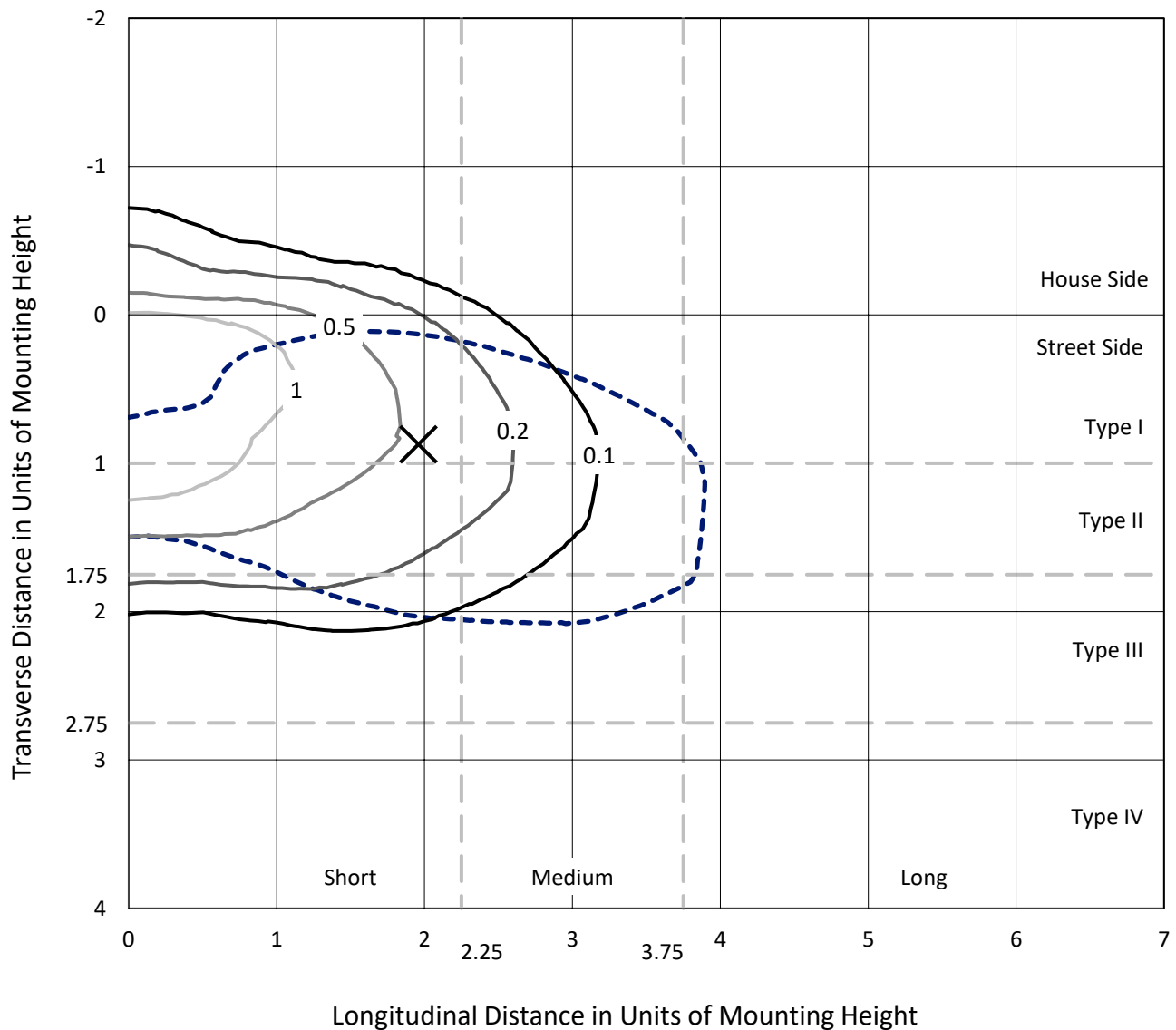


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

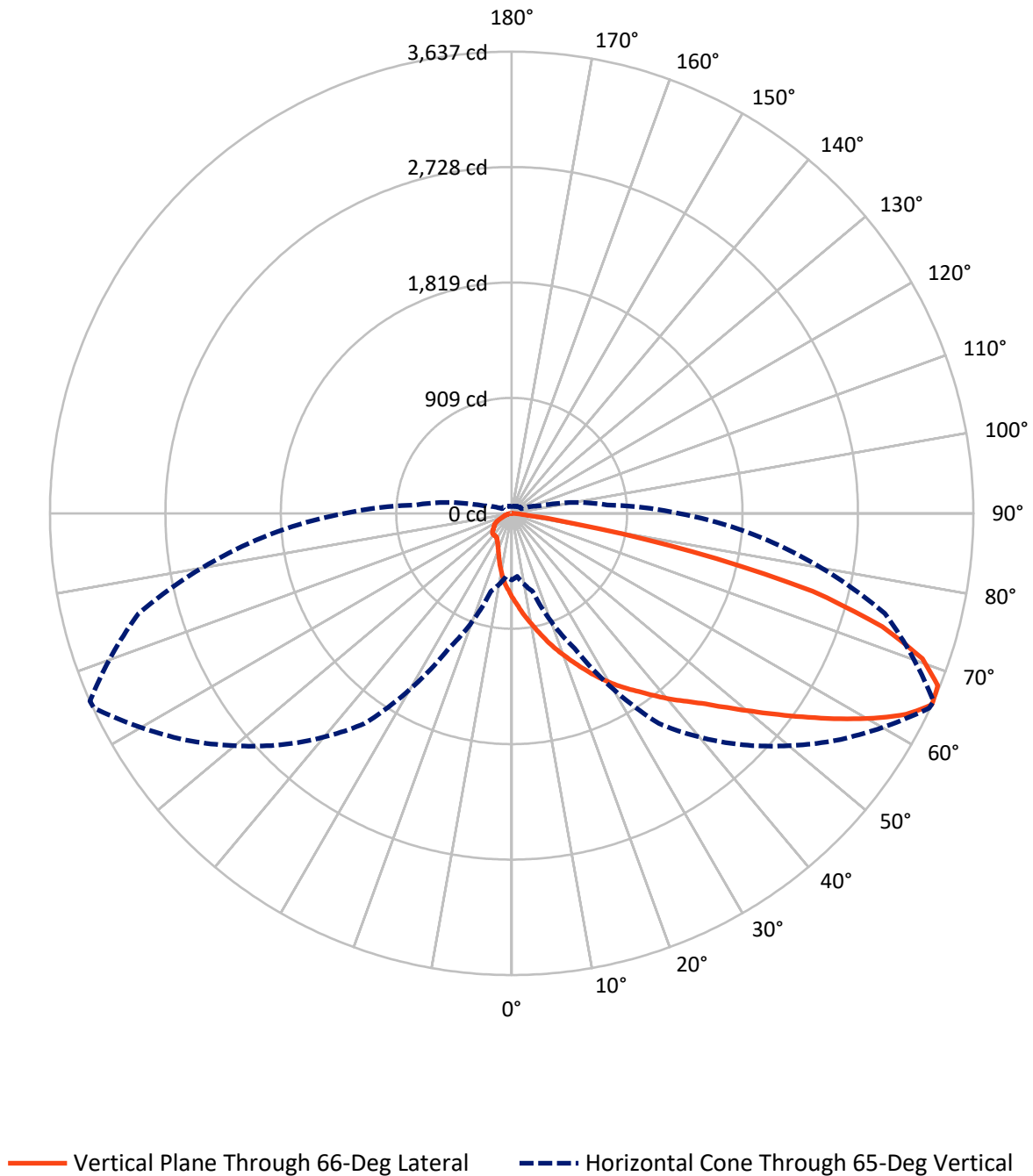


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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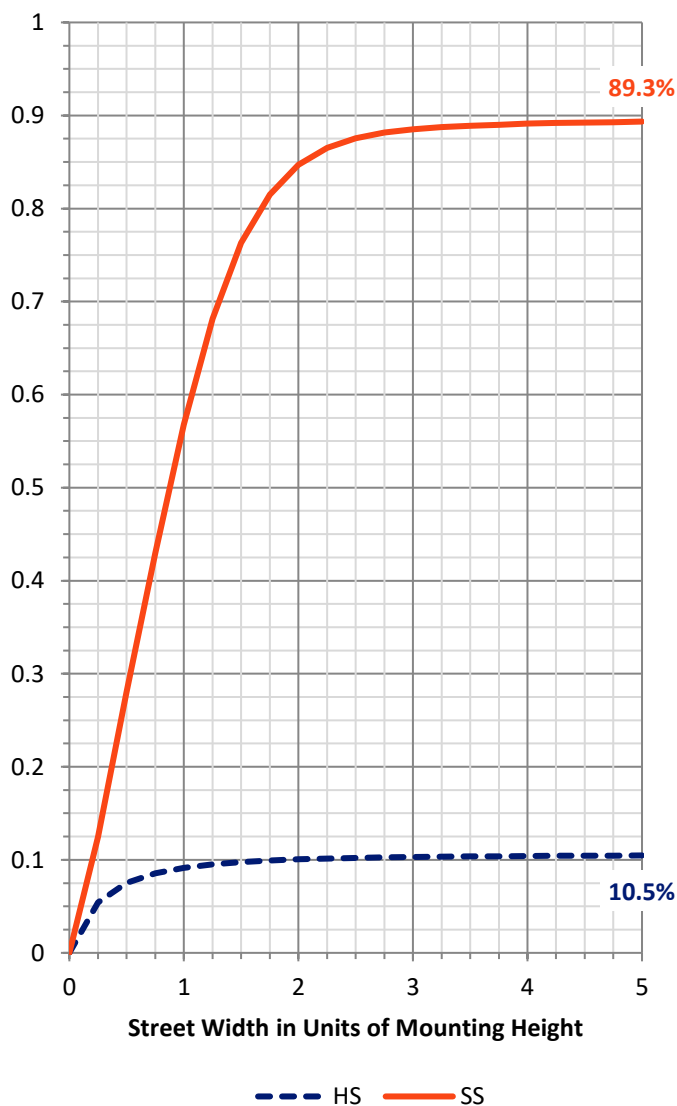
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.4	0.0	529.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4476.5	0.0	4476.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	5005.9	0.0	5005.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	1.3
10°-20°	213.1	4.3
20°-30°	385.6	7.7
30°-40°	603.0	12.0
40°-50°	914.7	18.3
50°-60°	1162.2	23.2
60°-70°	1085.9	21.7
70°-80°	539.7	10.8
80°-90°	36.2	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°	5005.9	100.0
0°-180°	5005.9	100.0

Coefficient of Utilization



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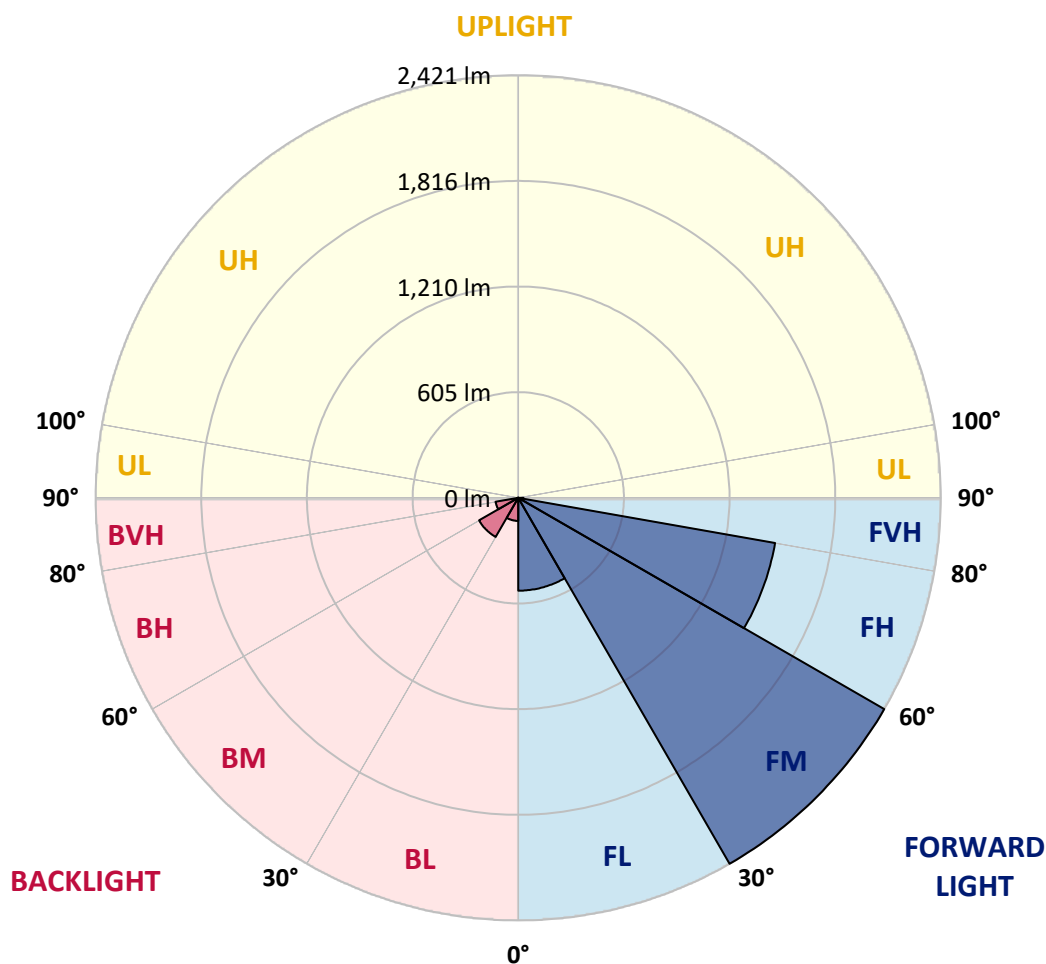
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.9	10.6			
FM	(30°-60°)	2421.0	48.4			
FH	(60°-80°)	1493.8	29.8			G1/1800
FVH	(80°-90°)	29.8	0.6			G1/100
BL	(0°-30°)	132.2	2.6	B1/500		
BM	(30°-60°)	259.0	5.2	B1/1000		
BH	(60°-80°)	131.8	2.6	B1/500		G1/500
BVH	(80°-90°)	6.4	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°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5
2.5°	773.8	780.1	783.3	784.3	760.2	749.7	739.2	715.0	709.8	696.1	678.3
5°	910.3	918.7	916.6	912.4	883.0	849.4	822.1	777.0	769.6	737.1	697.2
7.5°	1044.7	1052.0	1049.9	1034.2	1001.6	954.4	909.3	843.1	832.6	780.1	716.1
10°	1157.0	1163.3	1162.3	1146.5	1107.7	1049.9	995.3	907.2	894.6	820.0	731.8
12.5°	1249.4	1257.8	1256.8	1246.3	1211.6	1148.6	1086.7	980.7	964.9	868.3	753.9
15°	1321.9	1332.4	1332.4	1328.2	1304.0	1251.5	1181.2	1061.5	1042.6	924.0	781.2
17.5°	1366.0	1374.4	1381.7	1389.1	1372.3	1332.4	1268.3	1142.3	1122.4	978.6	809.5
20°	1389.1	1397.5	1402.7	1418.5	1421.6	1401.7	1351.3	1222.1	1201.1	1040.5	842.1
22.5°	1426.9	1434.2	1435.3	1448.9	1455.2	1460.5	1429.0	1300.9	1284.1	1108.7	878.8
25°	1489.9	1498.3	1495.1	1501.4	1502.5	1508.8	1505.6	1391.2	1374.4	1186.4	922.9
27.5°	1570.7	1581.2	1579.1	1572.8	1563.4	1558.1	1571.8	1482.5	1466.8	1264.1	968.1
30°	1657.9	1670.5	1667.3	1654.7	1629.5	1607.5	1626.4	1568.6	1553.9	1343.9	1018.4
32.5°	1746.1	1760.8	1759.7	1738.7	1695.7	1657.9	1686.2	1649.5	1639.0	1430.0	1073.0
35°	1803.8	1822.7	1820.6	1808.0	1752.4	1719.8	1754.5	1732.4	1725.1	1535.0	1151.8
37.5°	1897.3	1917.2	1899.4	1867.9	1803.8	1787.0	1829.0	1825.9	1820.6	1646.3	1234.7
40°	2124.0	2153.4	2106.2	1977.1	1872.1	1857.4	1917.2	1929.8	1924.6	1756.6	1309.3
42.5°	2361.3	2405.4	2331.9	2153.4	1995.9	1942.4	2013.8	2031.6	2025.3	1851.1	1376.5
45°	2505.2	2524.1	2450.6	2312.0	2215.4	2045.3	2116.7	2146.1	2140.8	1964.5	1462.6
47.5°	2622.8	2615.4	2531.4	2438.0	2455.8	2190.2	2233.2	2291.0	2286.8	2089.4	1557.1
50°	2648.0	2631.2	2597.6	2538.8	2586.0	2337.2	2356.1	2455.8	2451.6	2228.0	1652.6
52.5°	2470.5	2448.5	2539.8	2589.2	2573.4	2444.3	2491.5	2636.4	2634.3	2378.1	1744.0
55°	2027.4	2009.6	2255.3	2510.4	2559.8	2519.9	2641.7	2824.4	2835.9	2537.7	1826.9
57.5°	1594.9	1576.0	1817.5	2313.0	2509.4	2589.2	2817.0	3039.6	3054.3	2711.0	1905.7
60°	1271.5	1243.1	1427.9	2002.2	2414.9	2642.7	2986.0	3275.8	3277.9	2869.5	1954.0
62.5°	864.1	832.6	1037.3	1608.5	2256.3	2651.1	3116.2	3479.5	3487.9	2988.1	1962.4
65°	525.0	498.7	637.3	1174.9	2022.2	2579.7	3118.3	3629.7	3637.0	3042.7	1912.0
67.5°	304.5	294.0	364.3	731.8	1633.7	2387.6	2987.1	3606.6	3620.2	3019.6	1797.5
70°	177.4	176.4	202.6	362.2	1152.8	2006.4	2694.2	3412.3	3432.3	2898.9	1622.2
72.5°	130.2	132.3	142.8	194.2	667.8	1444.7	2281.5	3021.7	3052.2	2662.7	1372.3
75°	102.9	103.9	113.4	132.3	350.7	816.9	1709.3	2425.4	2449.5	2241.6	1072.0
77.5°	76.6	78.7	86.1	93.4	162.7	374.8	961.8	1494.1	1454.2	1230.5	517.6
80°	55.6	60.9	64.0	67.2	86.1	144.9	288.7	520.8	516.6	537.6	244.6
82.5°	35.7	39.9	43.0	45.1	51.4	69.3	86.1	116.5	126.0	208.9	97.6
85°	15.7	17.8	19.9	24.1	22.0	24.1	35.7	23.1	19.9	31.5	17.8
87.5°	0.0	0.0	3.1	5.2	4.2	2.1	6.3	4.2	3.1	3.1	3.1
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°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5
2.5°	668.8	657.3	633.1	610.0	596.4	578.5	562.8	548.1	547.0	542.8	535.5
5°	677.2	655.2	610.0	567.0	534.4	499.8	470.4	447.3	438.9	432.6	424.2
7.5°	685.6	651.0	583.8	520.8	469.3	421.0	386.4	354.9	345.4	337.0	331.8
10°	688.8	643.6	553.3	469.3	402.1	350.7	313.9	290.8	282.4	278.2	275.1
12.5°	698.2	639.4	525.0	421.0	343.3	296.1	269.8	256.2	253.0	249.9	246.7
15°	710.8	639.4	496.6	373.8	297.1	259.3	243.6	234.1	232.0	231.0	228.9
17.5°	724.5	639.4	469.3	333.9	263.5	235.2	223.6	218.4	217.3	216.3	215.2
20°	743.4	640.5	439.9	299.2	239.4	217.3	207.9	201.6	200.5	199.5	199.5
22.5°	762.3	642.6	411.6	273.0	223.6	203.7	192.1	185.8	183.7	183.7	183.7
25°	786.4	648.9	385.3	250.9	210.0	191.1	176.4	171.1	170.1	170.1	169.0
27.5°	814.8	656.2	362.2	234.1	196.3	176.4	161.7	156.4	154.3	154.3	153.3
30°	845.2	663.6	343.3	221.5	182.7	161.7	148.0	141.7	139.6	140.7	139.6
32.5°	878.8	674.1	328.6	213.1	170.1	149.1	136.5	129.1	128.1	128.1	127.0
35°	935.5	703.5	326.5	208.9	159.6	139.6	127.0	119.7	118.6	118.6	117.6
37.5°	996.4	737.1	336.0	206.8	151.2	131.2	119.7	112.3	111.3	111.3	111.3
40°	1047.8	762.3	346.5	206.8	145.9	123.9	113.4	107.1	107.1	107.1	107.1
42.5°	1082.5	764.4	344.4	206.8	141.7	118.6	109.2	102.9	102.9	103.9	102.9
45°	1133.9	774.9	336.0	203.7	138.6	114.4	105.0	99.7	98.7	99.7	99.7
47.5°	1194.8	793.8	327.6	191.1	137.5	110.2	101.8	95.5	94.5	95.5	94.5
50°	1252.6	810.6	323.4	174.3	135.4	106.0	97.6	91.3	90.3	91.3	90.3
52.5°	1300.9	817.9	316.0	162.7	130.2	101.8	93.4	87.1	85.0	86.1	86.1
55°	1339.7	815.8	305.5	153.3	120.7	97.6	88.2	82.9	79.8	79.8	78.7
57.5°	1375.4	816.9	296.1	143.8	110.2	91.3	84.0	77.7	73.5	72.4	71.4
60°	1389.1	811.6	279.3	131.2	99.7	86.1	78.7	71.4	67.2	66.1	65.1
62.5°	1370.2	792.7	257.2	109.2	90.3	79.8	73.5	66.1	61.9	60.9	59.8
65°	1316.6	757.0	223.6	86.1	81.9	72.4	67.2	61.9	56.7	54.6	53.5
67.5°	1225.3	705.6	181.6	69.3	72.4	66.1	63.0	56.7	50.4	48.3	47.2
70°	1095.1	637.3	136.5	58.8	64.0	58.8	56.7	50.4	45.1	43.0	42.0
72.5°	912.4	527.1	95.5	50.4	55.6	51.4	49.3	45.1	39.9	36.7	36.7
75°	689.8	378.0	63.0	43.0	46.2	44.1	40.9	37.8	34.6	32.5	31.5
77.5°	297.1	147.0	38.8	32.5	37.8	36.7	32.5	30.4	29.4	27.3	27.3
80°	128.1	59.8	24.1	24.1	27.3	26.2	25.2	23.1	23.1	22.0	21.0
82.5°	47.2	24.1	14.7	17.8	19.9	17.8	17.8	17.8	17.8	16.8	16.8
85°	11.5	7.3	7.3	10.5	11.5	10.5	11.5	10.5	10.5	10.5	9.4
87.5°	3.1	3.1	4.2	4.2	4.2	4.2	4.2	3.1	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)