

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: P836679

Luminaire Tested: **ARCH3-60-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836679
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: ARCH3-60-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6919 lumens
Efficiency: N/A
Efficacy: 109.5 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): 63.2
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



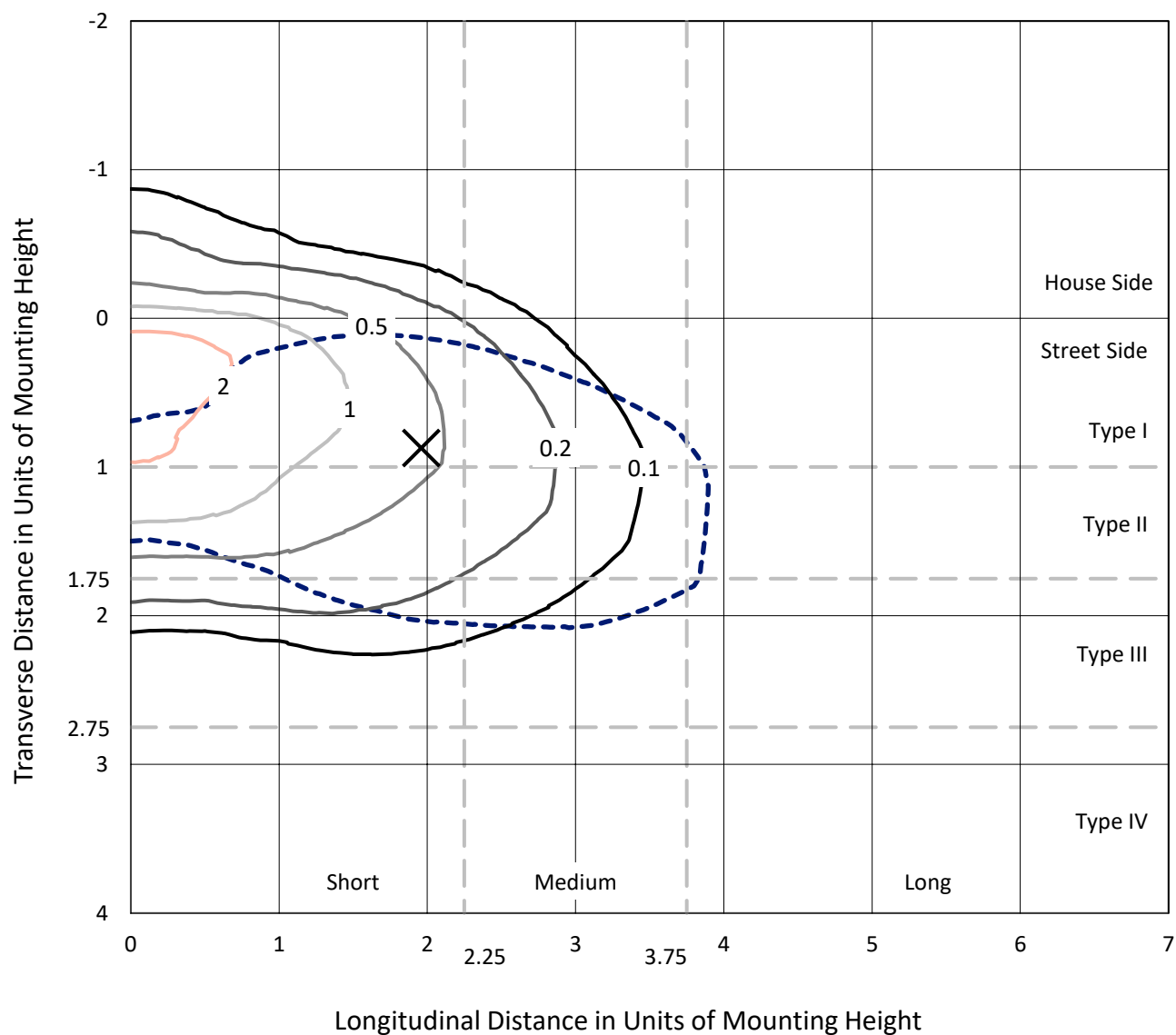
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

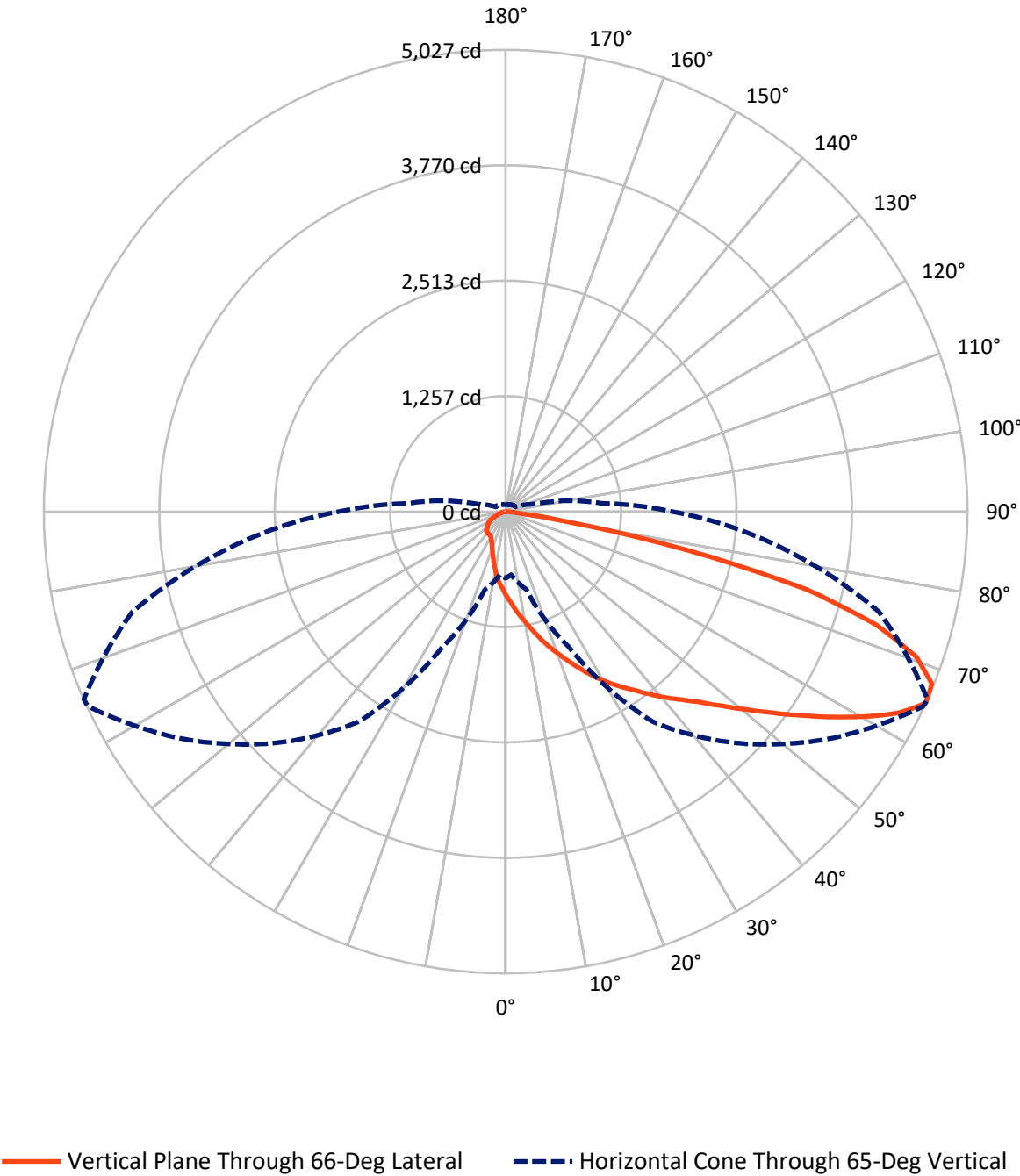


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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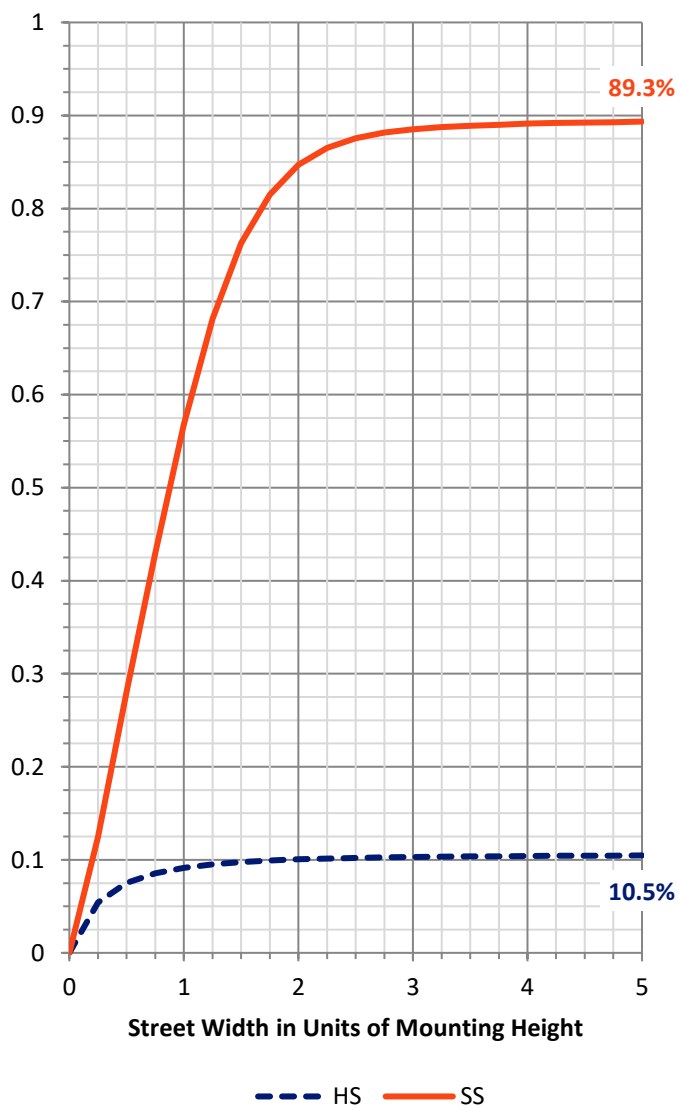
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.9	0.0	731.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6187.2	0.0	6187.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	6919.0	0.0	6919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	1.3
10°-20°	294.6	4.3
20°-30°	533.0	7.7
30°-40°	833.4	12.0
40°-50°	1264.3	18.3
50°-60°	1606.3	23.2
60°-70°	1501.0	21.7
70°-80°	746.0	10.8
80°-90°	50.1	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°	6919.0	100.0
0°-180°	6919.0	100.0

Coefficient of Utilization



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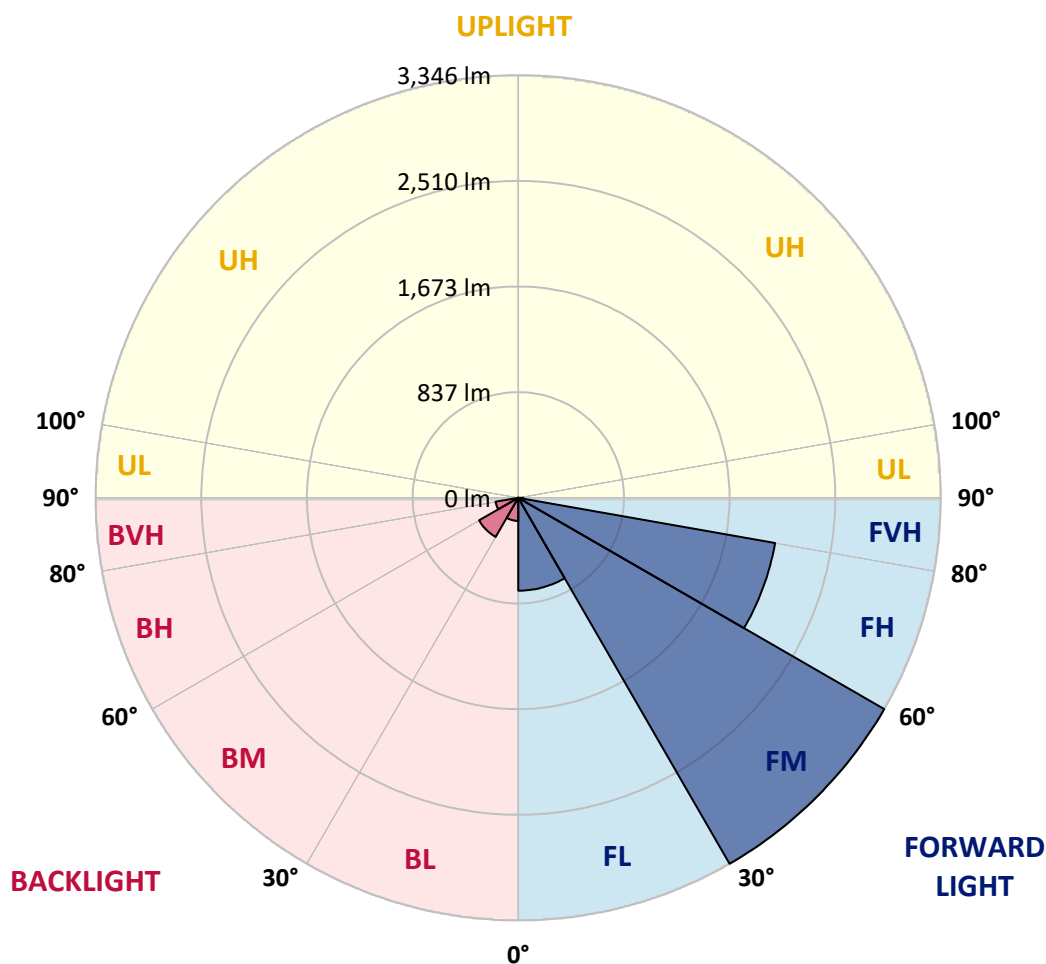
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.1	10.6			
FM	(30°-60°)	3346.1	48.4			
FH	(60°-80°)	2064.7	29.8			G2/5000
FVH	(80°-90°)	41.3	0.6			G1/100
BL	(0°-30°)	182.8	2.6	B1/500		
BM	(30°-60°)	358.0	5.2	B1/1000		
BH	(60°-80°)	182.3	2.6	B1/500		G1/500
BVH	(80°-90°)	8.9	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°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7
2.5°	1069.5	1078.2	1082.6	1084.0	1050.7	1036.1	1021.6	988.3	981.0	962.1	937.5
5°	1258.2	1269.8	1266.9	1261.1	1220.4	1174.0	1136.3	1073.9	1063.7	1018.7	963.6
7.5°	1443.9	1454.1	1451.2	1429.4	1384.4	1319.1	1256.7	1165.3	1150.8	1078.2	989.7
10°	1599.2	1607.9	1606.5	1584.7	1531.0	1451.2	1375.7	1253.8	1236.4	1133.4	1011.5
12.5°	1726.9	1738.5	1737.1	1722.5	1674.7	1587.6	1502.0	1355.4	1333.6	1200.1	1041.9
15°	1827.0	1841.5	1841.5	1835.7	1802.4	1729.8	1632.6	1467.1	1441.0	1277.0	1079.7
17.5°	1888.0	1899.6	1909.7	1919.9	1896.7	1841.5	1753.0	1578.9	1551.3	1352.5	1118.9
20°	1919.9	1931.5	1938.8	1960.5	1964.9	1937.3	1867.7	1689.2	1660.1	1438.1	1163.8
22.5°	1972.1	1982.3	1983.8	2002.6	2011.3	2018.6	1975.0	1798.0	1774.8	1532.4	1214.6
25°	2059.2	2070.8	2066.5	2075.2	2076.6	2085.3	2081.0	1922.8	1899.6	1639.8	1275.6
27.5°	2171.0	2185.5	2182.6	2173.9	2160.8	2153.5	2172.4	2049.1	2027.3	1747.2	1338.0
30°	2291.4	2308.8	2304.5	2287.1	2252.2	2221.7	2247.9	2168.1	2147.7	1857.5	1407.6
32.5°	2413.3	2433.6	2432.2	2403.1	2343.6	2291.4	2330.6	2279.8	2265.3	1976.5	1483.1
35°	2493.1	2519.2	2516.3	2498.9	2422.0	2377.0	2424.9	2394.4	2384.3	2121.6	1591.9
37.5°	2622.3	2649.8	2625.2	2581.6	2493.1	2469.9	2527.9	2523.6	2516.3	2275.4	1706.6
40°	2935.7	2976.4	2911.1	2732.6	2587.4	2567.1	2649.8	2667.3	2660.0	2427.8	1809.6
42.5°	3263.7	3324.6	3223.1	2976.4	2758.7	2684.7	2783.4	2808.0	2799.3	2558.4	1902.5
45°	3462.5	3488.6	3387.0	3195.5	3062.0	2826.9	2925.6	2966.2	2958.9	2715.1	2021.5
47.5°	3625.0	3614.9	3498.8	3369.6	3394.3	3027.2	3086.7	3166.5	3160.7	2887.8	2152.1
50°	3659.9	3636.6	3590.2	3508.9	3574.2	3230.3	3256.4	3394.3	3388.5	3079.4	2284.2
52.5°	3414.6	3384.1	3510.4	3578.6	3556.8	3378.3	3443.6	3643.9	3641.0	3286.9	2410.4
55°	2802.2	2777.5	3117.1	3469.8	3538.0	3482.8	3651.2	3903.7	3919.6	3507.5	2525.0
57.5°	2204.3	2178.2	2512.0	3196.9	3468.3	3578.6	3893.5	4201.2	4221.5	3746.9	2633.9
60°	1757.4	1718.2	1973.6	2767.4	3337.7	3652.6	4127.1	4527.7	4530.6	3966.1	2700.6
62.5°	1194.3	1150.8	1433.8	2223.2	3118.6	3664.2	4307.1	4809.2	4820.8	4130.0	2712.2
65°	725.6	689.3	880.9	1623.9	2795.0	3565.5	4310.0	5016.7	5026.9	4205.5	2642.6
67.5°	420.8	406.3	503.6	1011.5	2258.0	3300.0	4128.6	4984.8	5003.7	4173.6	2484.4
70°	245.2	243.8	280.1	500.7	1593.4	2773.2	3723.7	4716.3	4743.9	4006.7	2242.1
72.5°	179.9	182.8	197.4	268.5	922.9	1996.8	3153.4	4176.5	4218.6	3680.2	1896.7
75°	142.2	143.7	156.7	182.8	484.7	1129.0	2362.5	3352.2	3385.6	3098.3	1481.7
77.5°	105.9	108.8	119.0	129.2	224.9	518.1	1329.3	2065.0	2009.9	1700.8	715.4
80°	76.9	84.2	88.5	92.9	119.0	200.3	399.1	719.8	714.0	743.0	338.1
82.5°	49.3	55.1	59.5	62.4	71.1	95.8	119.0	161.1	174.1	288.8	135.0
85°	21.8	24.7	27.6	33.4	30.5	33.4	49.3	31.9	27.6	43.5	24.7
87.5°	0.0	0.0	4.4	7.3	5.8	2.9	8.7	5.8	4.4	4.4	4.4
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°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7
2.5°	924.4	908.4	875.1	843.1	824.3	799.6	777.8	757.5	756.1	750.3	740.1
5°	936.0	905.5	843.1	783.6	738.6	690.8	650.1	618.2	606.6	597.9	586.3
7.5°	947.6	899.7	806.9	719.8	648.7	581.9	534.0	490.5	477.4	465.8	458.6
10°	952.0	889.6	764.8	648.7	555.8	484.7	433.9	402.0	390.4	384.6	380.2
12.5°	965.0	883.8	725.6	581.9	474.5	409.2	373.0	354.1	349.7	345.4	341.0
15°	982.4	883.8	686.4	516.6	410.7	358.4	336.7	323.6	320.7	319.3	316.4
17.5°	1001.3	883.8	648.7	461.5	364.2	325.1	309.1	301.8	300.4	298.9	297.5
20°	1027.4	885.2	608.0	413.6	330.9	300.4	287.3	278.6	277.2	275.7	275.7
22.5°	1053.6	888.1	568.9	377.3	309.1	281.5	265.6	256.9	254.0	254.0	254.0
25°	1086.9	896.8	532.6	346.8	290.2	264.1	243.8	236.5	235.1	235.1	233.6
27.5°	1126.1	907.0	500.7	323.6	271.4	243.8	223.5	216.2	213.3	213.3	211.9
30°	1168.2	917.1	474.5	306.2	252.5	223.5	204.6	195.9	193.0	194.5	193.0
32.5°	1214.6	931.7	454.2	294.6	235.1	206.1	188.7	178.5	177.0	177.0	175.6
35°	1293.0	972.3	451.3	288.8	220.6	193.0	175.6	165.4	164.0	164.0	162.5
37.5°	1377.2	1018.7	464.4	285.9	209.0	181.4	165.4	155.3	153.8	153.8	153.8
40°	1448.3	1053.6	478.9	285.9	201.7	171.2	156.7	148.0	148.0	148.0	148.0
42.5°	1496.2	1056.5	476.0	285.9	195.9	164.0	150.9	142.2	142.2	143.7	142.2
45°	1567.3	1071.0	464.4	281.5	191.6	158.2	145.1	137.9	136.4	137.9	137.9
47.5°	1651.4	1097.1	452.8	264.1	190.1	152.4	140.8	132.1	130.6	132.1	130.6
50°	1731.3	1120.3	447.0	240.9	187.2	146.6	135.0	126.3	124.8	126.3	124.8
52.5°	1798.0	1130.5	436.8	224.9	179.9	140.8	129.2	120.4	117.5	119.0	119.0
55°	1851.7	1127.6	422.3	211.9	166.9	135.0	121.9	114.6	110.3	110.3	108.8
57.5°	1901.0	1129.0	409.2	198.8	152.4	126.3	116.1	107.4	101.6	100.1	98.7
60°	1919.9	1121.8	386.0	181.4	137.9	119.0	108.8	98.7	92.9	91.4	90.0
62.5°	1893.8	1095.6	355.5	150.9	124.8	110.3	101.6	91.4	85.6	84.2	82.7
65°	1819.8	1046.3	309.1	119.0	113.2	100.1	92.9	85.6	78.4	75.5	74.0
67.5°	1693.5	975.2	251.1	95.8	100.1	91.4	87.1	78.4	69.7	66.8	65.3
70°	1513.6	880.9	188.7	81.3	88.5	81.3	78.4	69.7	62.4	59.5	58.0
72.5°	1261.1	728.5	132.1	69.7	76.9	71.1	68.2	62.4	55.1	50.8	50.8
75°	953.4	522.4	87.1	59.5	63.9	60.9	56.6	52.2	47.9	45.0	43.5
77.5°	410.7	203.2	53.7	45.0	52.2	50.8	45.0	42.1	40.6	37.7	37.7
80°	177.0	82.7	33.4	33.4	37.7	36.3	34.8	31.9	31.9	30.5	29.0
82.5°	65.3	33.4	20.3	24.7	27.6	24.7	24.7	24.7	24.7	23.2	23.2
85°	16.0	10.2	10.2	14.5	16.0	14.5	16.0	14.5	14.5	14.5	13.1
87.5°	4.4	4.4	5.8	5.8	5.8	5.8	5.8	4.4	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)