

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: P836535

Luminaire Tested: **ARCH3-40-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836535
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: ARCH3-40-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 4831 lumens
Efficiency: N/A
Efficacy: 110.8 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



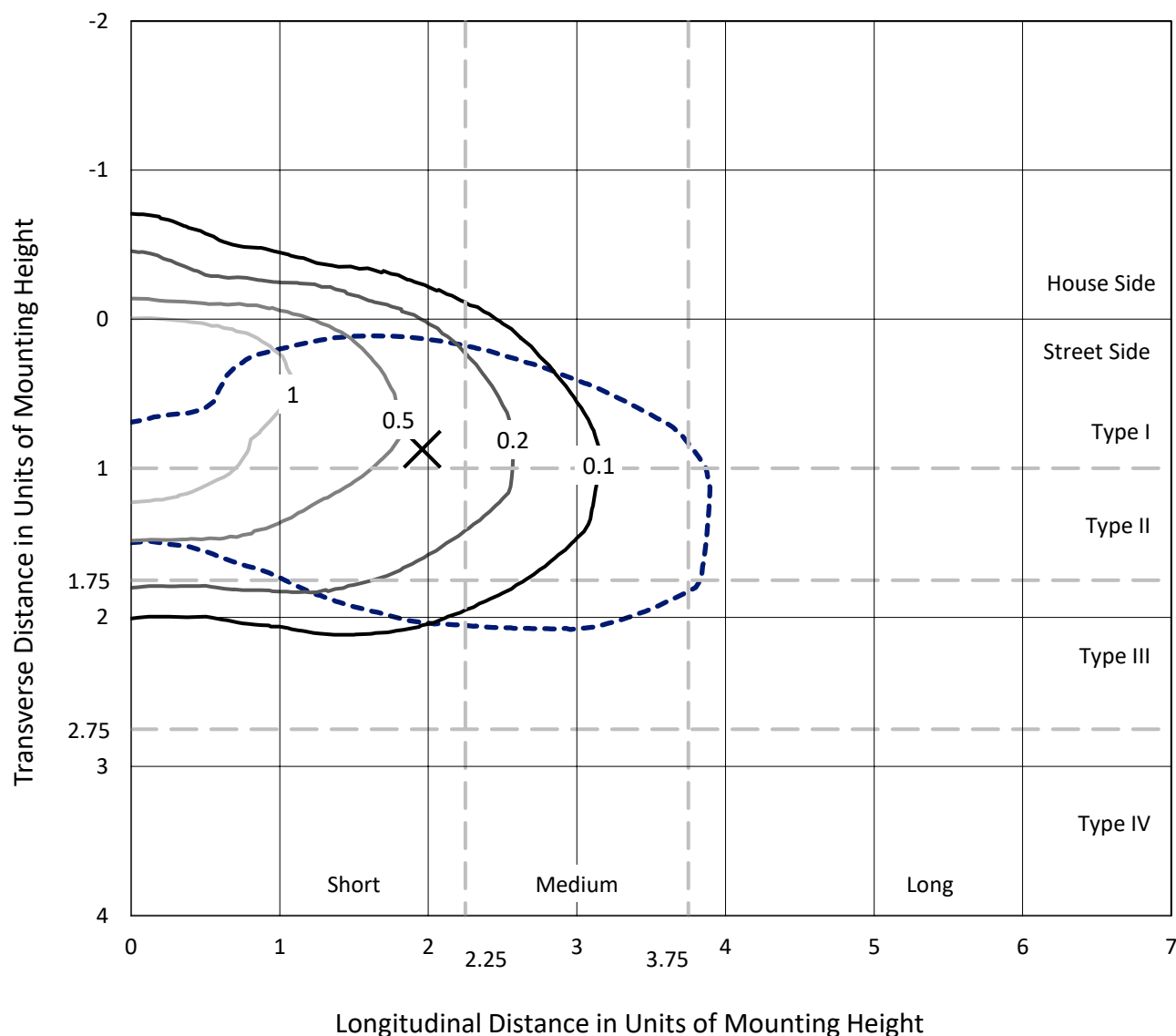
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

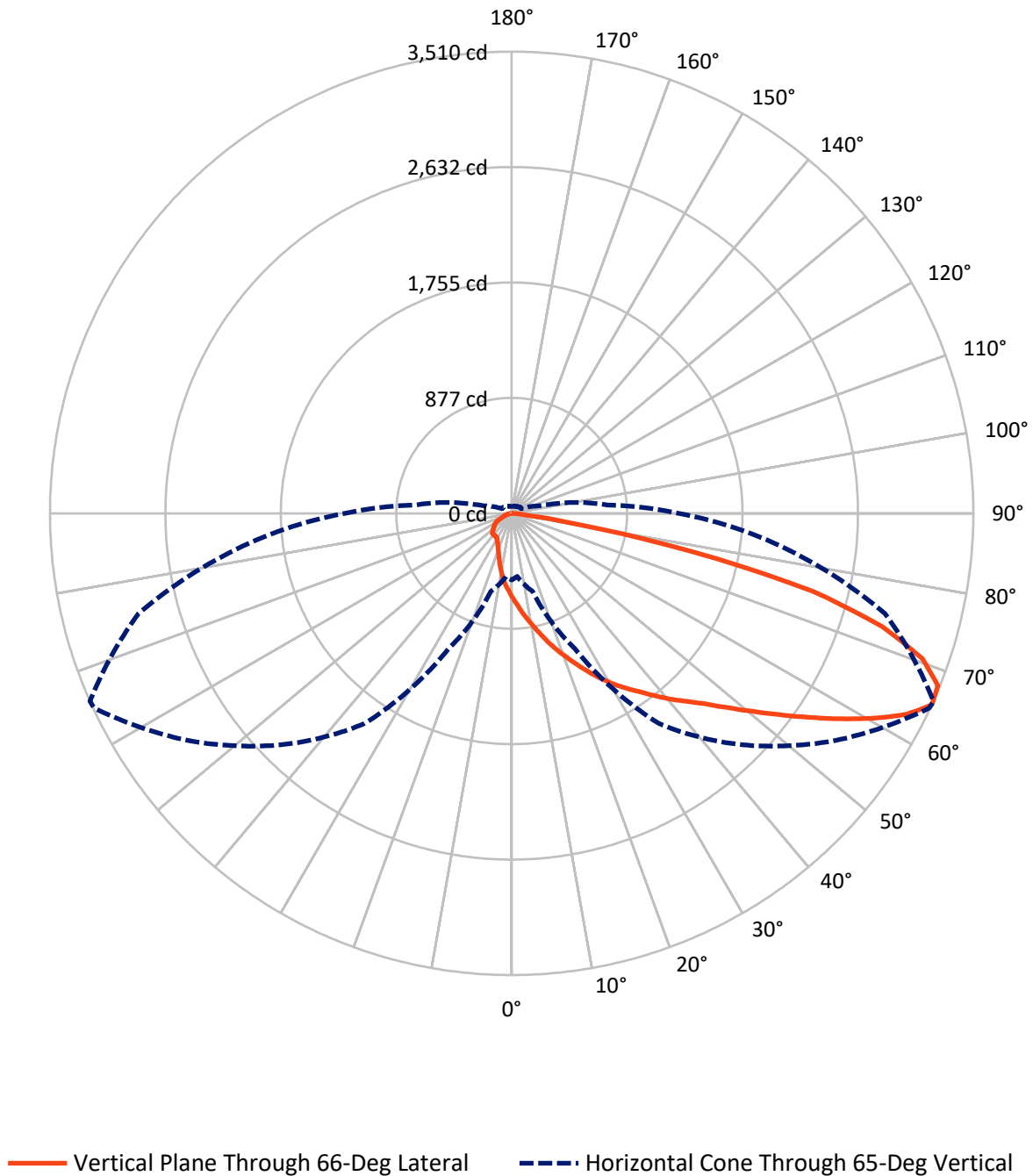


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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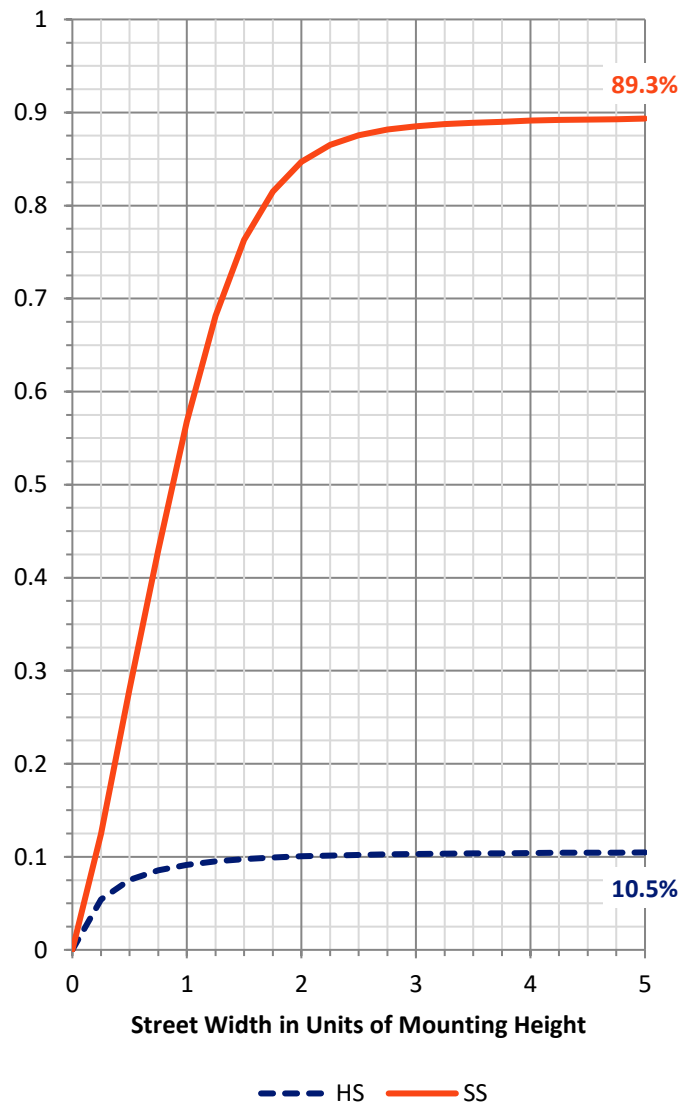
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	511.0	0.0	511.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4320.0	0.0	4320.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	4831.0	0.0	4831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.3
10°-20°	205.7	4.3
20°-30°	372.1	7.7
30°-40°	581.9	12.0
40°-50°	882.8	18.3
50°-60°	1121.6	23.2
60°-70°	1048.0	21.7
70°-80°	520.8	10.8
80°-90°	35.0	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°	4831.0	100.0
0°-180°	4831.0	100.0

Coefficient of Utilization



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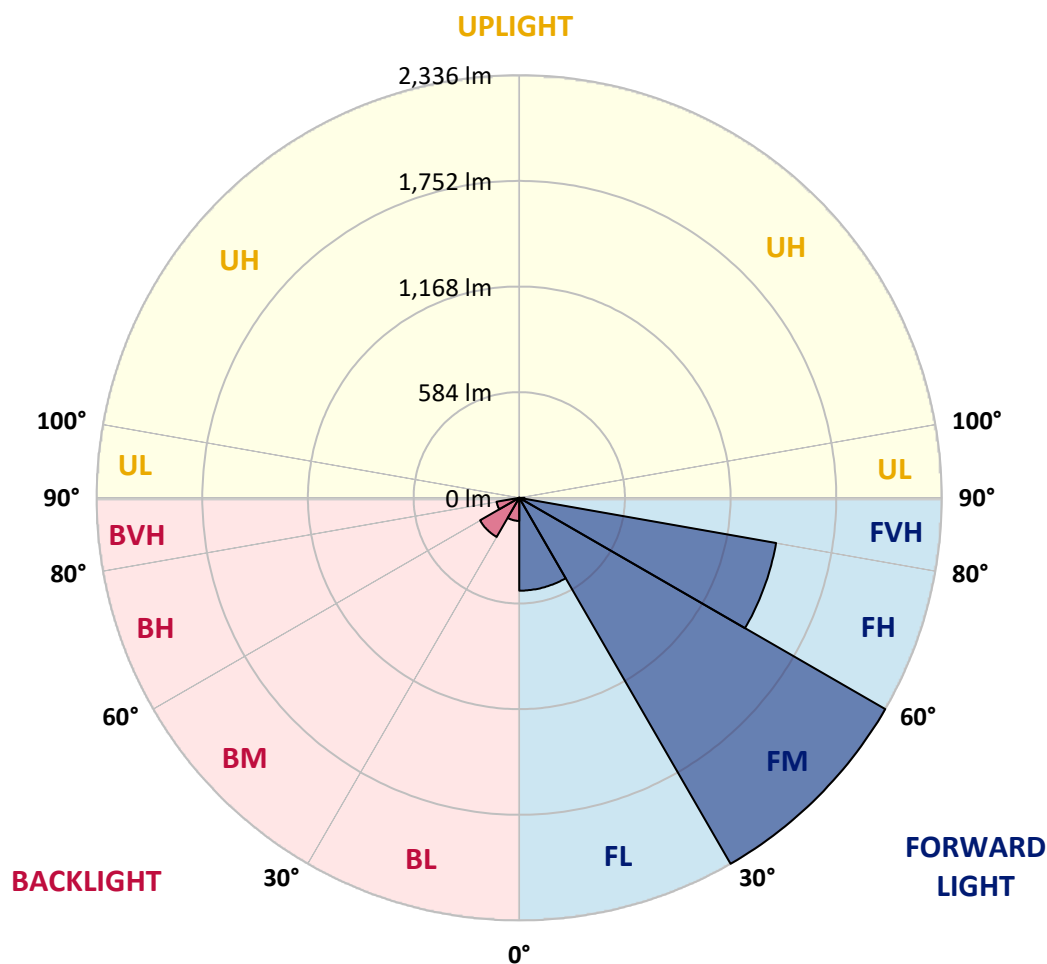
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.3	10.6			
FM	(30°-60°)	2336.3	48.4			
FH	(60°-80°)	1441.6	29.8			G1/1800
FVH	(80°-90°)	28.8	0.6			G1/100
BL	(0°-30°)	127.6	2.6	B1/500		
BM	(30°-60°)	249.9	5.2	B1/1000		
BH	(60°-80°)	127.2	2.6	B1/500		G1/500
BVH	(80°-90°)	6.2	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°	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
2.5°	746.8	752.8	755.9	756.9	733.6	723.5	713.3	690.0	685.0	671.8	654.6
5°	878.5	886.6	884.6	880.5	852.1	819.7	793.4	749.8	742.7	711.3	672.8
7.5°	1008.2	1015.3	1013.2	998.0	966.6	921.0	877.5	813.6	803.5	752.8	691.0
10°	1116.6	1122.7	1121.7	1106.5	1069.0	1013.2	960.6	875.4	863.3	791.3	706.2
12.5°	1205.8	1213.9	1212.9	1202.7	1169.3	1108.5	1048.7	946.4	931.2	838.0	727.5
15°	1275.7	1285.8	1285.8	1281.8	1258.4	1207.8	1139.9	1024.4	1006.2	891.7	753.9
17.5°	1318.2	1326.3	1333.4	1340.5	1324.3	1285.8	1224.0	1102.4	1083.2	944.3	781.2
20°	1340.5	1348.6	1353.7	1368.9	1371.9	1352.7	1304.0	1179.4	1159.2	1004.1	812.6
22.5°	1377.0	1384.1	1385.1	1398.3	1404.4	1409.4	1379.0	1255.4	1239.2	1070.0	848.1
25°	1437.8	1445.9	1442.9	1448.9	1450.0	1456.0	1453.0	1342.5	1326.3	1145.0	890.6
27.5°	1515.8	1525.9	1523.9	1517.8	1508.7	1503.7	1516.8	1430.7	1415.5	1219.9	934.2
30°	1599.9	1612.1	1609.0	1596.9	1572.6	1551.3	1569.5	1513.8	1499.6	1297.0	982.8
32.5°	1685.0	1699.2	1698.2	1677.9	1636.4	1599.9	1627.3	1591.8	1581.7	1380.0	1035.5
35°	1740.8	1759.0	1757.0	1744.8	1691.1	1659.7	1693.1	1671.9	1664.8	1481.4	1111.5
37.5°	1830.9	1850.2	1833.0	1802.6	1740.8	1724.5	1765.1	1762.0	1757.0	1588.8	1191.6
40°	2049.8	2078.2	2032.6	1907.9	1806.6	1792.4	1850.2	1862.3	1857.3	1695.2	1263.5
42.5°	2278.8	2321.3	2250.4	2078.2	1926.2	1874.5	1943.4	1960.6	1954.5	1786.3	1328.4
45°	2417.6	2435.8	2364.9	2231.2	2137.9	1973.8	2042.7	2071.1	2066.0	1895.8	1411.4
47.5°	2531.1	2524.0	2442.9	2352.8	2370.0	2113.6	2155.2	2210.9	2206.8	2016.4	1502.6
50°	2555.4	2539.2	2506.8	2450.0	2495.6	2255.5	2273.7	2370.0	2365.9	2150.1	1594.8
52.5°	2384.2	2362.9	2451.0	2498.7	2483.5	2358.8	2404.4	2544.3	2542.2	2295.0	1683.0
55°	1956.6	1939.3	2176.4	2422.7	2470.3	2431.8	2549.3	2725.6	2736.8	2449.0	1763.0
57.5°	1539.1	1520.9	1753.9	2232.2	2421.7	2498.7	2718.5	2933.3	2947.5	2616.2	1839.0
60°	1227.0	1199.7	1378.0	1932.3	2330.5	2550.3	2881.7	3161.3	3163.3	2769.2	1885.6
62.5°	833.9	803.5	1001.1	1552.3	2177.5	2558.4	3007.3	3357.9	3366.0	2883.7	1893.8
65°	506.6	481.3	615.0	1133.8	1951.5	2489.5	3009.3	3502.8	3509.9	2936.4	1845.1
67.5°	293.8	283.7	351.6	706.2	1576.6	2304.1	2882.7	3480.5	3493.7	2914.1	1734.7
70°	171.2	170.2	195.6	349.6	1112.5	1936.3	2600.0	3293.0	3312.3	2797.6	1565.5
72.5°	125.6	127.7	137.8	187.4	644.4	1394.2	2201.8	2916.1	2945.5	2569.6	1324.3
75°	99.3	100.3	109.4	127.7	338.4	788.3	1649.6	2340.6	2363.9	2163.3	1034.5
77.5°	74.0	76.0	83.1	90.2	157.1	361.7	928.1	1441.8	1403.3	1187.5	499.5
80°	53.7	58.8	61.8	64.8	83.1	139.8	278.6	502.6	498.5	518.8	236.1
82.5°	34.5	38.5	41.5	43.6	49.6	66.9	83.1	112.5	121.6	201.6	94.2
85°	15.2	17.2	19.3	23.3	21.3	23.3	34.5	22.3	19.3	30.4	17.2
87.5°	0.0	0.0	3.0	5.1	4.1	2.0	6.1	4.1	3.0	3.0	3.0
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°	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4
2.5°	645.4	634.3	611.0	588.7	575.5	558.3	543.1	528.9	527.9	523.8	516.8
5°	653.5	632.3	588.7	547.2	515.7	482.3	453.9	431.6	423.5	417.5	409.4
7.5°	661.6	628.2	563.4	502.6	452.9	406.3	372.9	342.5	333.4	325.3	320.2
10°	664.7	621.1	534.0	452.9	388.1	338.4	303.0	280.7	272.6	268.5	265.5
12.5°	673.8	617.1	506.6	406.3	331.3	285.7	260.4	247.2	244.2	241.2	238.1
15°	686.0	617.1	479.3	360.7	286.7	250.3	235.1	226.0	223.9	222.9	220.9
17.5°	699.1	617.1	452.9	322.2	254.3	227.0	215.8	210.8	209.7	208.7	207.7
20°	717.4	618.1	424.5	288.8	231.0	209.7	200.6	194.5	193.5	192.5	192.5
22.5°	735.6	620.1	397.2	263.4	215.8	196.6	185.4	179.3	177.3	177.3	177.3
25°	758.9	626.2	371.9	242.2	202.6	184.4	170.2	165.2	164.1	164.1	163.1
27.5°	786.3	633.3	349.6	226.0	189.5	170.2	156.0	151.0	148.9	148.9	147.9
30°	815.7	640.4	331.3	213.8	176.3	156.0	142.9	136.8	134.8	135.8	134.8
32.5°	848.1	650.5	317.1	205.7	164.1	143.9	131.7	124.6	123.6	123.6	122.6
35°	902.8	678.9	315.1	201.6	154.0	134.8	122.6	115.5	114.5	114.5	113.5
37.5°	961.6	711.3	324.2	199.6	145.9	126.7	115.5	108.4	107.4	107.4	107.4
40°	1011.2	735.6	334.4	199.6	140.8	119.6	109.4	103.4	103.4	103.4	103.4
42.5°	1044.7	737.6	332.3	199.6	136.8	114.5	105.4	99.3	99.3	100.3	99.3
45°	1094.3	747.8	324.2	196.6	133.7	110.4	101.3	96.3	95.2	96.3	96.3
47.5°	1153.1	766.0	316.1	184.4	132.7	106.4	98.3	92.2	91.2	92.2	91.2
50°	1208.8	782.2	312.1	168.2	130.7	102.3	94.2	88.2	87.1	88.2	87.1
52.5°	1255.4	789.3	305.0	157.1	125.6	98.3	90.2	84.1	82.1	83.1	83.1
55°	1292.9	787.3	294.9	147.9	116.5	94.2	85.1	80.0	77.0	77.0	76.0
57.5°	1327.3	788.3	285.7	138.8	106.4	88.2	81.1	75.0	70.9	69.9	68.9
60°	1340.5	783.2	269.5	126.7	96.3	83.1	76.0	68.9	64.8	63.8	62.8
62.5°	1322.3	765.0	248.2	105.4	87.1	77.0	70.9	63.8	59.8	58.8	57.8
65°	1270.6	730.5	215.8	83.1	79.0	69.9	64.8	59.8	54.7	52.7	51.7
67.5°	1182.5	680.9	175.3	66.9	69.9	63.8	60.8	54.7	48.6	46.6	45.6
70°	1056.8	615.0	131.7	56.7	61.8	56.7	54.7	48.6	43.6	41.5	40.5
72.5°	880.5	508.6	92.2	48.6	53.7	49.6	47.6	43.6	38.5	35.5	35.5
75°	665.7	364.8	60.8	41.5	44.6	42.6	39.5	36.5	33.4	31.4	30.4
77.5°	286.7	141.9	37.5	31.4	36.5	35.5	31.4	29.4	28.4	26.3	26.3
80°	123.6	57.8	23.3	23.3	26.3	25.3	24.3	22.3	22.3	21.3	20.3
82.5°	45.6	23.3	14.2	17.2	19.3	17.2	17.2	17.2	17.2	16.2	16.2
85°	11.1	7.1	7.1	10.1	11.1	10.1	11.1	10.1	10.1	10.1	9.1
87.5°	3.0	3.0	4.1	4.1	4.1	4.1	4.1	3.0	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)