

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: P842630

Luminaire Tested: **ARCH4-70-750-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9376 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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

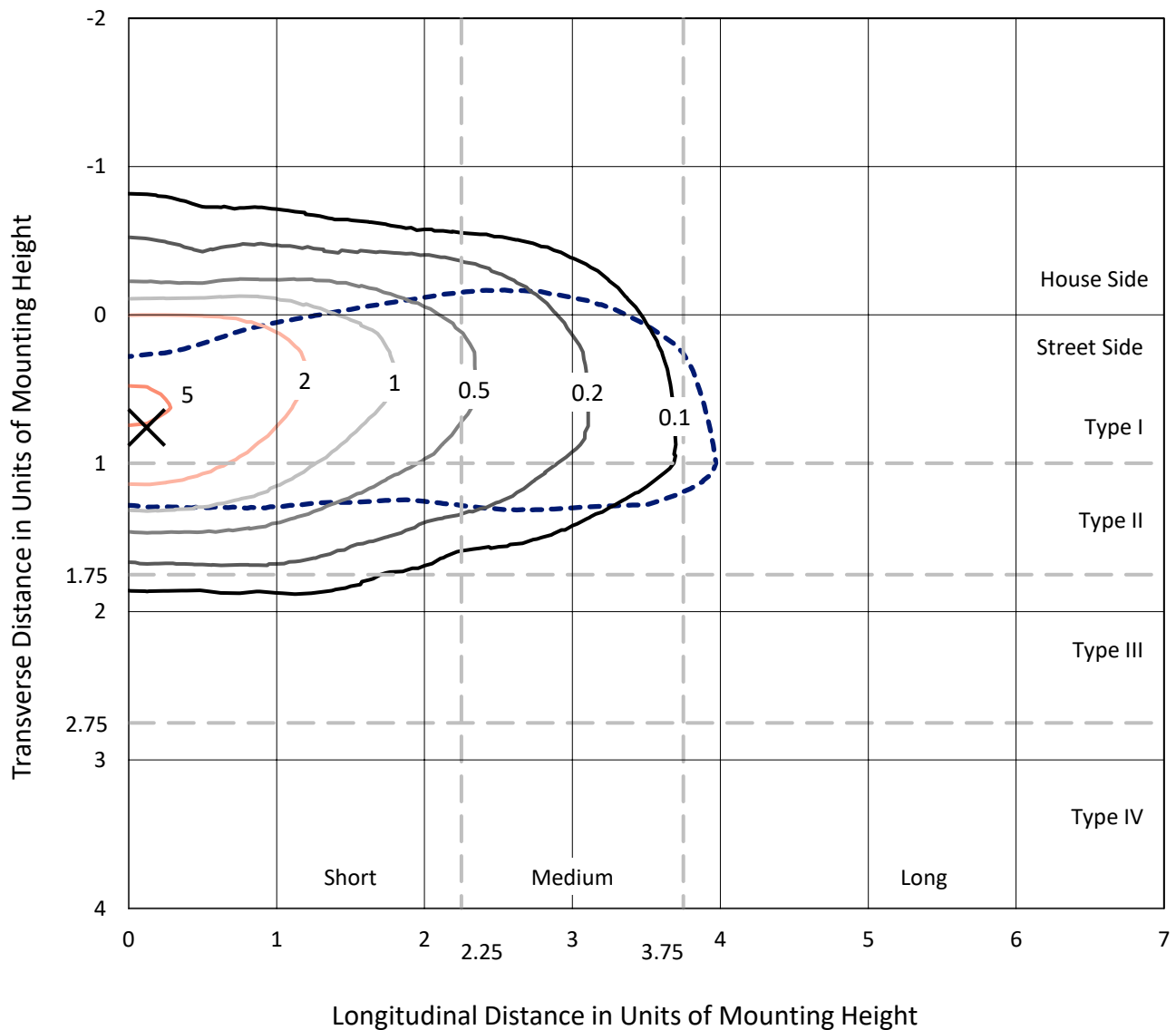


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

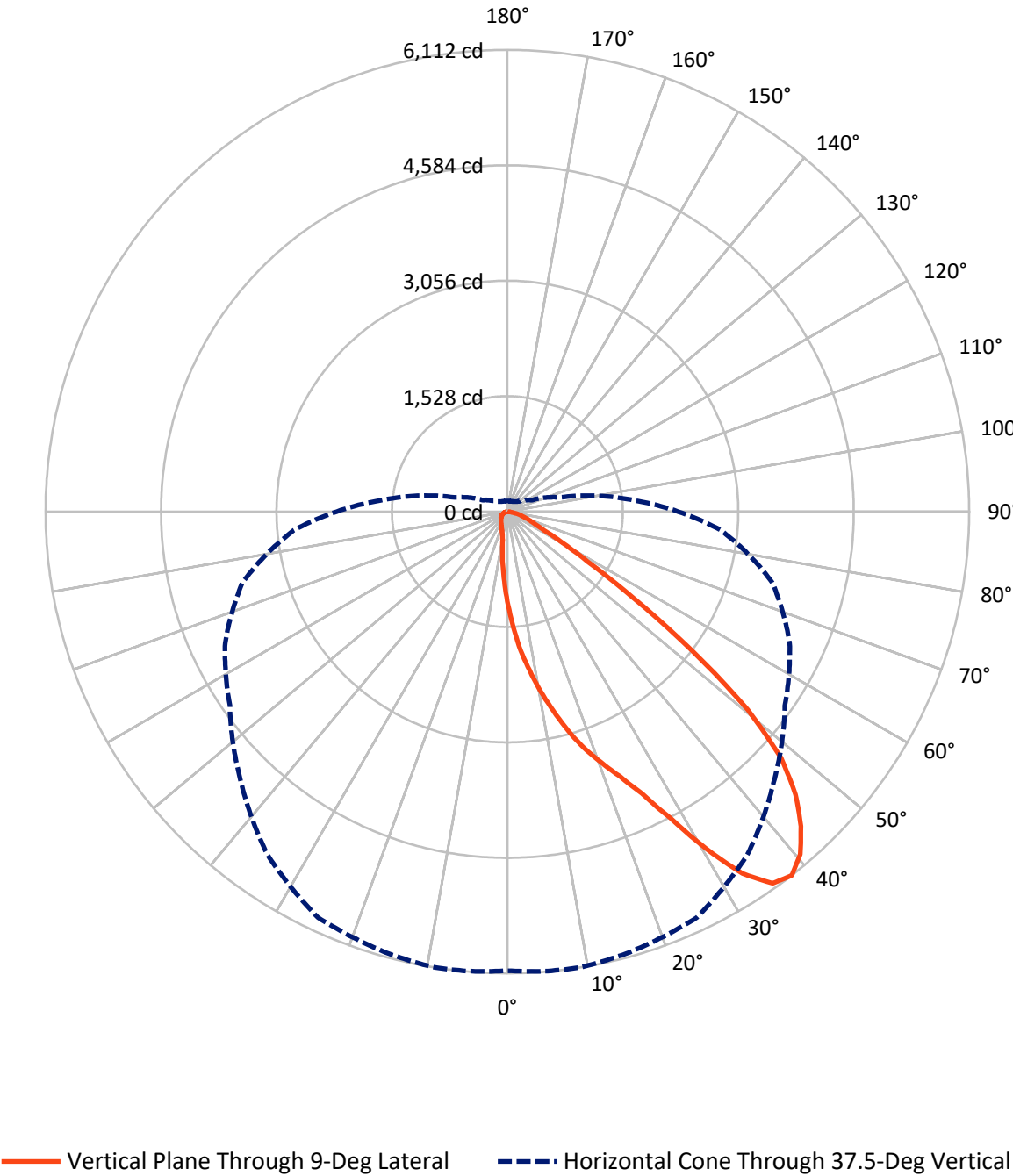


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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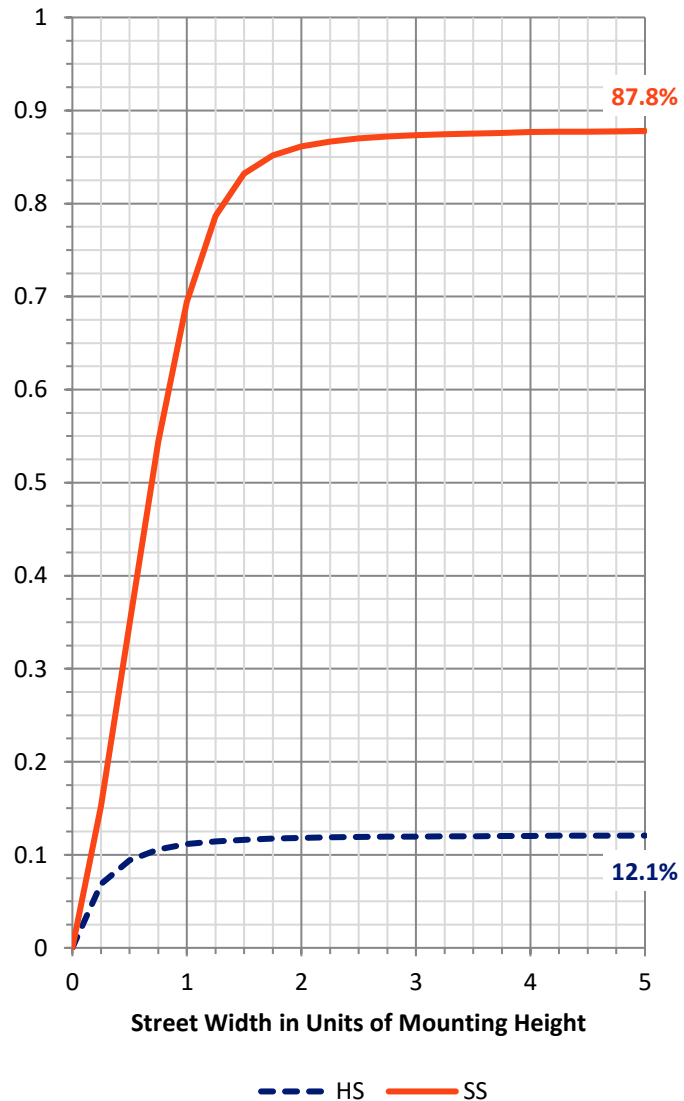
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1140.3	0.0	1140.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8235.7	0.0	8235.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	9376.0	0.0	9376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.3
10°-20°	433.0	4.6
20°-30°	889.7	9.5
30°-40°	1572.6	16.8
40°-50°	2089.1	22.3
50°-60°	1981.4	21.1
60°-70°	1511.6	16.1
70°-80°	732.8	7.8
80°-90°	41.2	0.4
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°	9376.0	100.0
0°-180°	9376.0	100.0

Coefficient of Utilization



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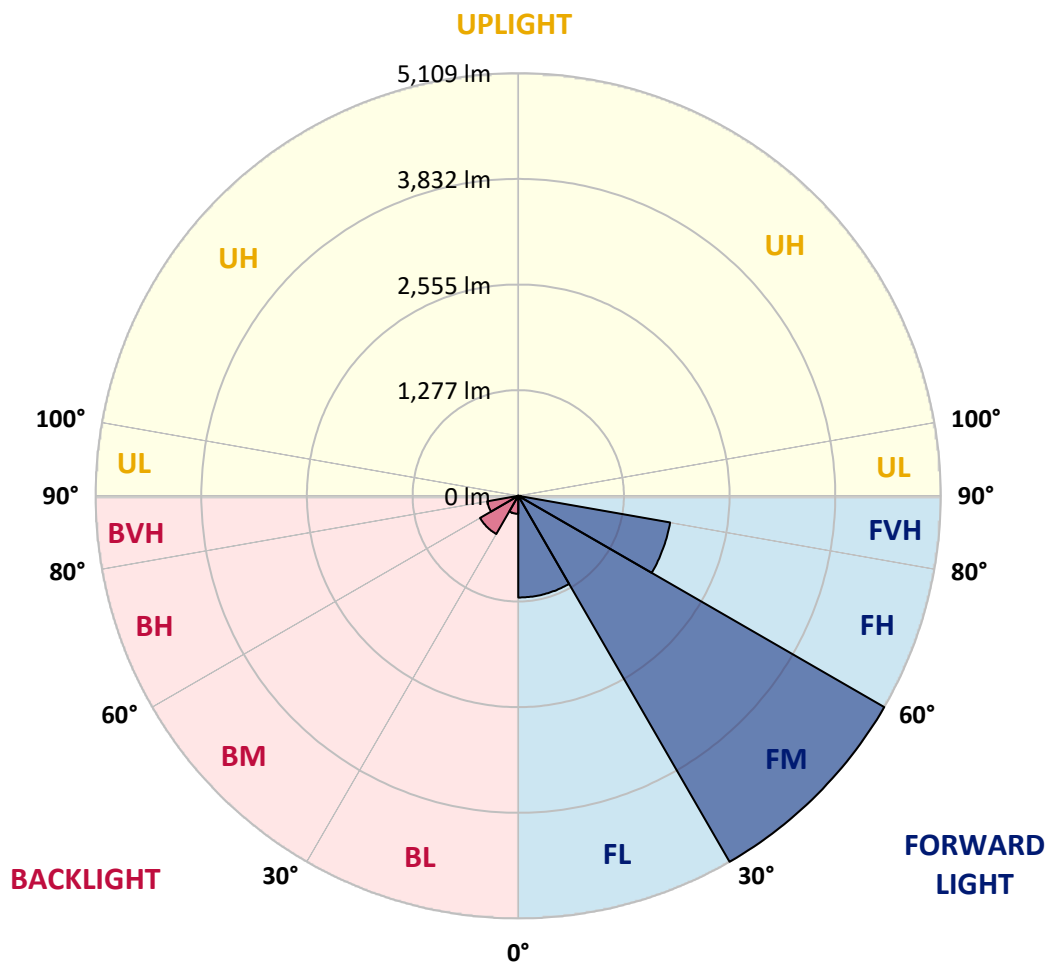
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1229.7	13.1			
FM	(30°-60°)	5109.5	54.5			
FH	(60°-80°)	1863.9	19.9			G2/5000
FVH	(80°-90°)	32.7	0.3			G1/100
BL	(0°-30°)	217.6	2.3	B1/500		
BM	(30°-60°)	533.6	5.7	B1/1000		
BH	(60°-80°)	380.5	4.1	B1/500		G1/500
BVH	(80°-90°)	8.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1535.8	1508.8	1539.6	1535.8	1508.8	1491.5	1437.6	1420.3	1356.8	1310.6	1270.2
5°	1851.4	1824.4	1851.4	1843.7	1805.2	1762.9	1674.3	1616.6	1503.1	1403.0	1312.5
7.5°	2113.1	2113.1	2124.7	2126.6	2080.4	2015.0	1905.3	1818.7	1658.9	1505.0	1360.6
10°	2396.0	2398.0	2423.0	2405.7	2344.1	2255.5	2117.0	2007.3	1814.8	1612.8	1406.8
12.5°	2698.2	2700.1	2707.8	2700.1	2627.0	2513.4	2346.0	2201.7	1980.3	1735.9	1470.3
15°	3000.3	3002.3	3011.9	2998.4	2917.6	2784.8	2594.3	2417.2	2155.5	1874.5	1547.3
17.5°	3283.2	3287.1	3294.8	3277.5	3192.8	3035.0	2840.6	2627.0	2342.1	2022.7	1633.9
20°	3537.3	3541.1	3546.9	3523.8	3439.1	3281.3	3071.5	2848.3	2532.7	2174.7	1728.2
22.5°	3793.2	3797.1	3806.7	3775.9	3681.6	3500.7	3294.8	3063.8	2734.7	2342.1	1837.9
25°	4120.4	4124.3	4132.0	4087.7	3958.7	3747.0	3529.6	3292.9	2954.1	2530.7	1972.6
27.5°	4599.6	4595.8	4595.8	4514.9	4293.6	4018.4	3766.3	3525.7	3190.9	2732.8	2120.8
30°	5192.4	5182.7	5177.0	5067.3	4751.7	4324.4	4008.8	3743.2	3418.0	2946.4	2280.6
32.5°	5723.5	5723.5	5712.0	5596.5	5261.6	4736.3	4266.7	3954.9	3637.4	3162.0	2446.1
35°	6037.2	6050.7	6044.9	5958.3	5713.9	5178.9	4615.0	4208.9	3868.3	3387.2	2644.3
37.5°	6079.6	6106.5	6112.3	6060.3	5931.4	5540.7	5001.8	4484.1	4122.3	3629.7	2836.7
40°	5908.3	5966.0	5966.0	5958.3	5912.1	5712.0	5327.1	4803.6	4384.1	3881.8	3031.1
42.5°	5644.6	5704.3	5696.6	5725.5	5713.9	5671.6	5509.9	5101.9	4645.8	4141.6	3208.2
45°	5300.1	5361.7	5346.3	5398.3	5421.4	5467.6	5490.7	5309.8	4903.7	4424.5	3406.4
47.5°	4747.8	4851.7	4874.8	4967.2	5063.4	5207.8	5317.5	5384.8	5144.3	4728.6	3622.0
50°	3931.8	4078.1	4124.3	4318.6	4582.3	4880.6	5057.7	5292.4	5313.6	5040.3	3854.8
52.5°	2815.6	2984.9	3056.1	3375.6	3918.3	4438.0	4757.4	5088.4	5379.0	5338.6	4106.9
55°	1820.6	1964.9	2034.2	2334.4	3056.1	3872.1	4403.3	4824.8	5342.5	5611.9	4395.6
57.5°	1122.0	1204.8	1250.9	1508.8	2172.8	3146.6	3939.5	4582.3	5230.9	5848.6	4695.8
60°	756.3	804.5	827.5	948.8	1476.1	2351.8	3302.5	4328.3	5084.6	6008.4	4969.1
62.5°	502.3	517.7	540.8	615.8	973.8	1651.2	2536.5	3874.1	4974.9	6018.0	5171.2
65°	388.8	396.5	406.1	438.8	600.5	1154.7	1784.0	3138.9	4811.3	5814.0	5234.7
67.5°	306.0	313.7	325.2	342.6	434.9	783.3	1214.4	2299.8	4476.4	5494.5	5130.8
70°	240.6	246.3	254.0	269.4	338.7	567.7	802.5	1528.1	3800.9	5190.4	4803.6
72.5°	190.5	196.3	204.0	219.4	275.2	415.7	550.4	952.6	2931.1	4819.0	4174.3
75°	150.1	154.0	159.7	175.1	221.3	323.3	373.4	569.7	1991.9	4139.7	3252.4
77.5°	75.1	92.4	105.8	121.2	161.7	223.2	248.3	315.6	841.0	2124.7	1551.2
80°	44.3	53.9	57.7	67.4	105.8	134.7	134.7	127.0	265.6	816.0	633.2
82.5°	25.0	34.6	36.6	38.5	63.5	77.0	61.6	46.2	53.9	273.3	184.8
85°	7.7	11.5	13.5	15.4	21.2	23.1	21.2	19.2	15.4	26.9	17.3
87.5°	0.0	0.0	0.0	0.0	1.9	3.8	3.8	3.8	5.8	5.8	5.8
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°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1247.1	1222.1	1174.0	1129.7	1087.4	1056.6	1027.7	1000.8	981.5	966.1	964.2
5°	1264.4	1214.4	1122.0	1035.4	956.5	891.1	835.2	791.0	758.3	735.2	733.2
7.5°	1287.5	1210.5	1070.0	941.1	823.7	729.4	648.6	588.9	546.6	529.2	515.8
10°	1306.8	1206.7	1018.1	846.8	692.8	573.5	477.3	417.6	386.8	375.3	369.5
12.5°	1339.5	1210.5	973.8	760.2	579.3	438.8	365.7	332.9	319.5	309.8	307.9
15°	1387.6	1227.8	931.5	675.5	463.8	354.1	311.8	290.6	277.1	275.2	273.3
17.5°	1435.7	1243.2	893.0	588.9	384.9	307.9	279.1	261.7	252.1	250.2	250.2
20°	1491.5	1262.5	850.6	506.1	329.1	277.1	254.0	240.6	229.0	227.1	227.1
22.5°	1556.9	1289.4	810.2	433.0	292.5	254.0	234.8	219.4	209.8	207.8	207.8
25°	1645.5	1329.8	777.5	379.1	267.5	234.8	217.5	204.0	196.3	192.5	192.5
27.5°	1743.6	1385.7	754.4	346.4	250.2	219.4	202.1	190.5	182.8	179.0	179.0
30°	1853.3	1447.2	739.0	332.9	240.6	205.9	190.5	179.0	169.4	167.4	167.4
32.5°	1974.6	1518.4	729.4	334.9	238.6	196.3	179.0	167.4	159.7	155.9	155.9
35°	2109.3	1597.4	723.6	346.4	242.5	188.6	169.4	157.8	150.1	146.3	146.3
37.5°	2259.4	1689.7	723.6	358.0	252.1	186.7	159.7	148.2	142.4	138.6	138.6
40°	2399.9	1787.9	731.3	371.4	261.7	186.7	152.0	142.4	134.7	130.9	130.9
42.5°	2509.6	1843.7	737.1	384.9	267.5	184.8	144.3	134.7	128.9	125.1	125.1
45°	2634.7	1903.4	725.5	390.7	267.5	180.9	138.6	128.9	123.2	119.3	119.3
47.5°	2773.2	1976.5	723.6	394.5	261.7	173.2	132.8	123.2	119.3	115.5	115.5
50°	2913.7	2057.3	727.5	392.6	254.0	161.7	125.1	119.3	113.5	109.7	109.7
52.5°	3073.5	2142.0	735.2	388.8	236.7	148.2	119.3	113.5	107.8	103.9	102.0
55°	3250.5	2234.4	750.6	381.1	213.6	134.7	113.5	107.8	100.1	96.2	94.3
57.5°	3454.5	2347.9	767.9	365.7	188.6	123.2	107.8	100.1	88.5	82.8	80.8
60°	3648.9	2476.9	787.1	329.1	163.6	111.6	102.0	90.5	78.9	75.1	73.1
62.5°	3831.7	2603.9	796.8	263.7	138.6	102.0	96.2	82.8	71.2	67.4	65.4
65°	3949.1	2742.4	775.6	179.0	113.5	94.3	88.5	77.0	65.4	59.7	59.7
67.5°	3956.8	2807.9	702.5	117.4	92.4	84.7	80.8	69.3	57.7	53.9	52.0
70°	3762.4	2709.7	536.9	92.4	77.0	73.1	73.1	61.6	50.0	46.2	44.3
72.5°	3316.0	2399.9	342.6	75.1	65.4	61.6	61.6	52.0	44.3	38.5	36.6
75°	2617.4	1851.4	182.8	61.6	53.9	52.0	48.1	42.3	36.6	32.7	30.8
77.5°	1202.8	816.0	84.7	44.3	40.4	40.4	36.6	30.8	28.9	25.0	25.0
80°	475.4	277.1	42.3	28.9	26.9	26.9	26.9	21.2	21.2	17.3	15.4
82.5°	130.9	57.7	21.2	17.3	17.3	17.3	15.4	13.5	13.5	11.5	11.5
85°	13.5	9.6	9.6	9.6	9.6	7.7	7.7	5.8	3.8	3.8	3.8
87.5°	5.8	5.8	5.8	5.8	5.8	3.8	1.9	0.0	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)