

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: P840947

Luminaire Tested: **ARCH4-110-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840947
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: ARCH4-110-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA 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: 13271 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

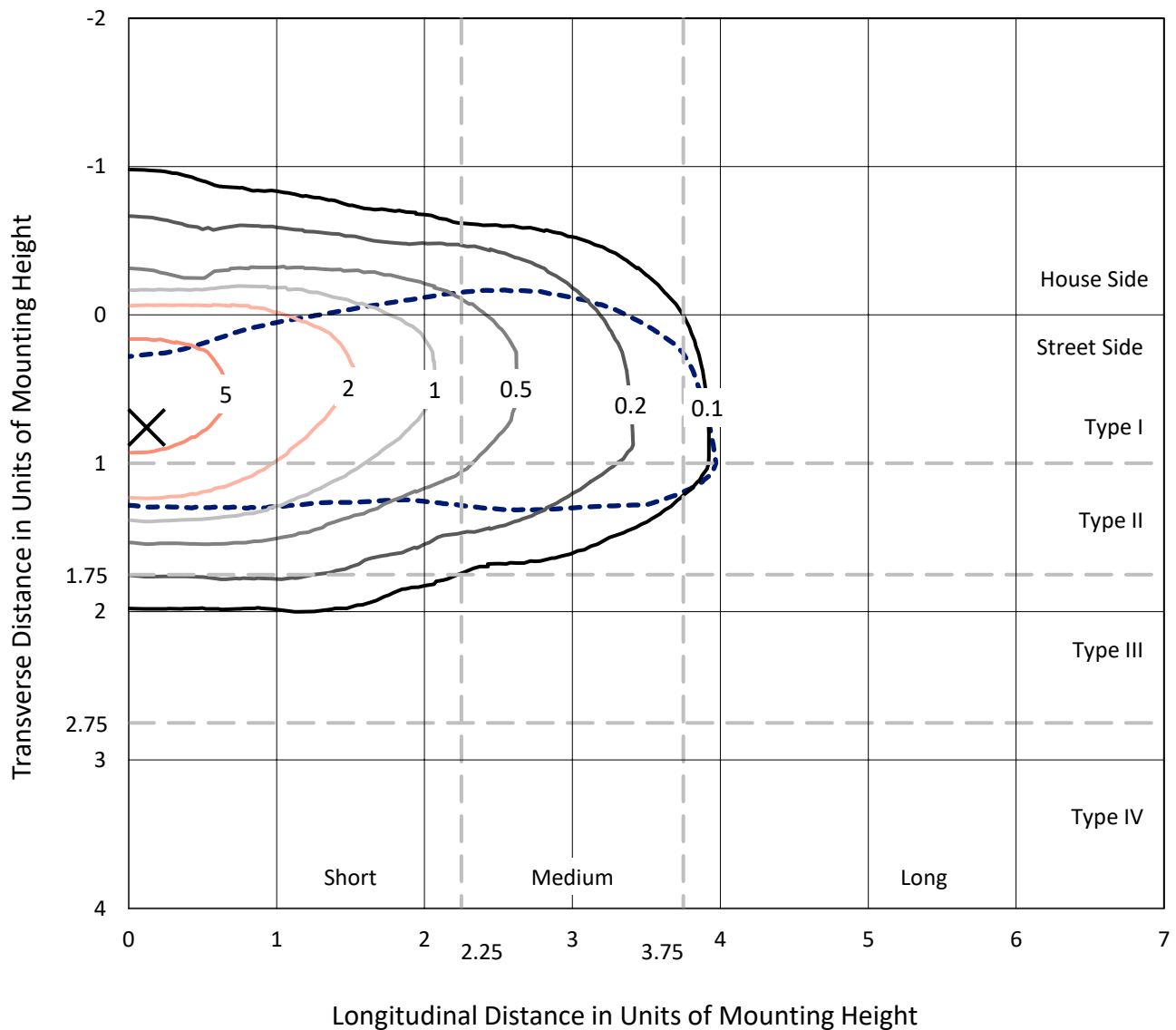
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

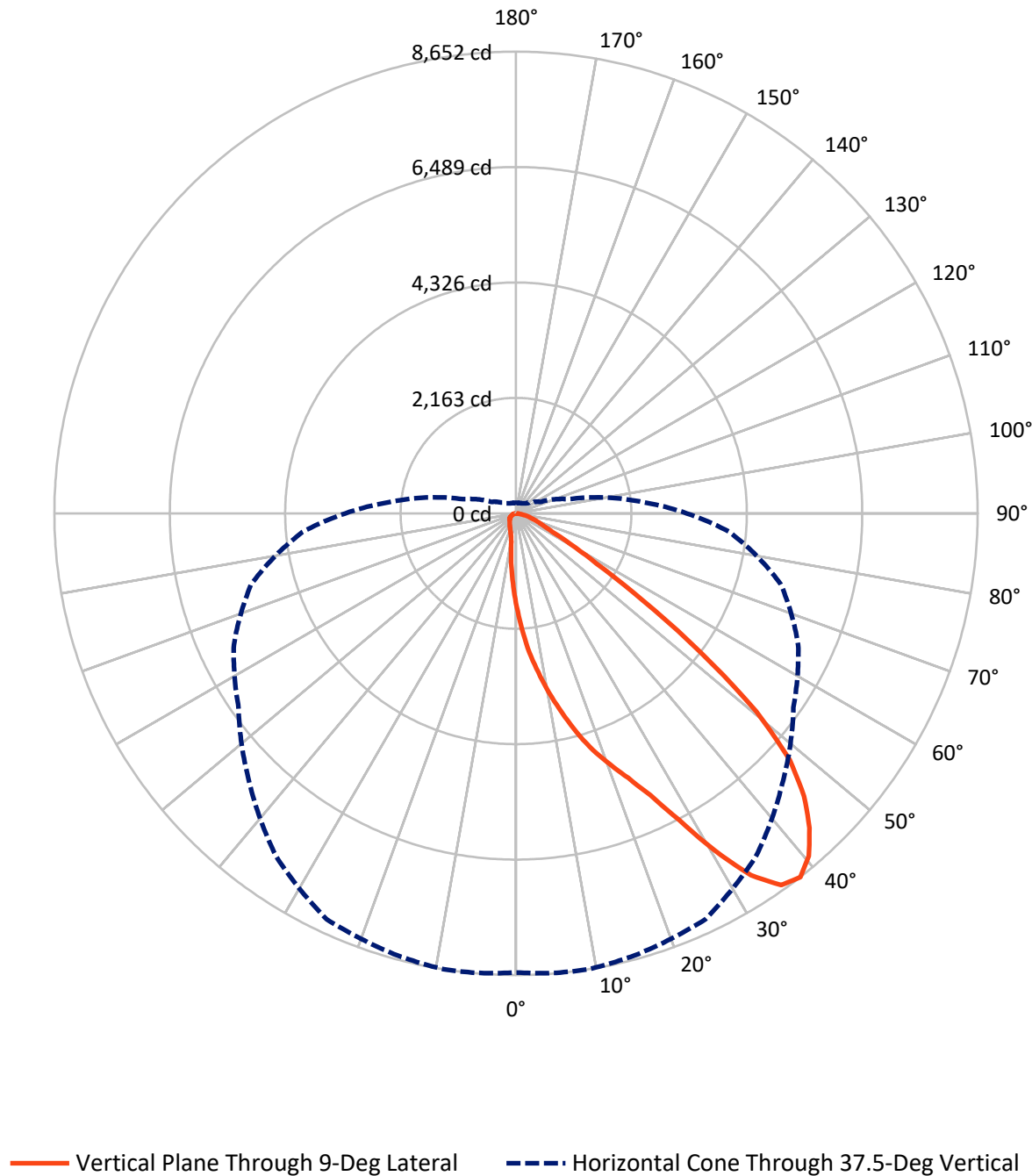
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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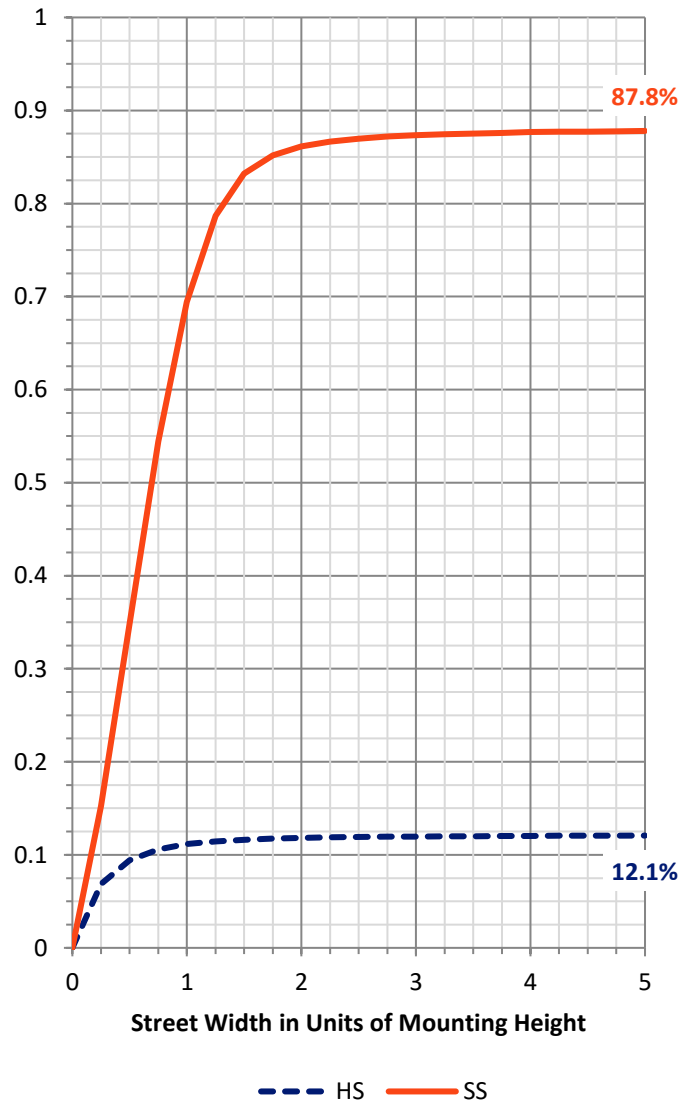
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1614.0	0.0	1614.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11657.0	0.0	11657.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	13271.0	0.0	13271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.3
10°-20°	612.9	4.6
20°-30°	1259.3	9.5
30°-40°	2225.9	16.8
40°-50°	2956.9	22.3
50°-60°	2804.5	21.1
60°-70°	2139.6	16.1
70°-80°	1037.3	7.8
80°-90°	58.4	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°	13271.0	100.0
0°-180°	13271.0	100.0

Coefficient of Utilization



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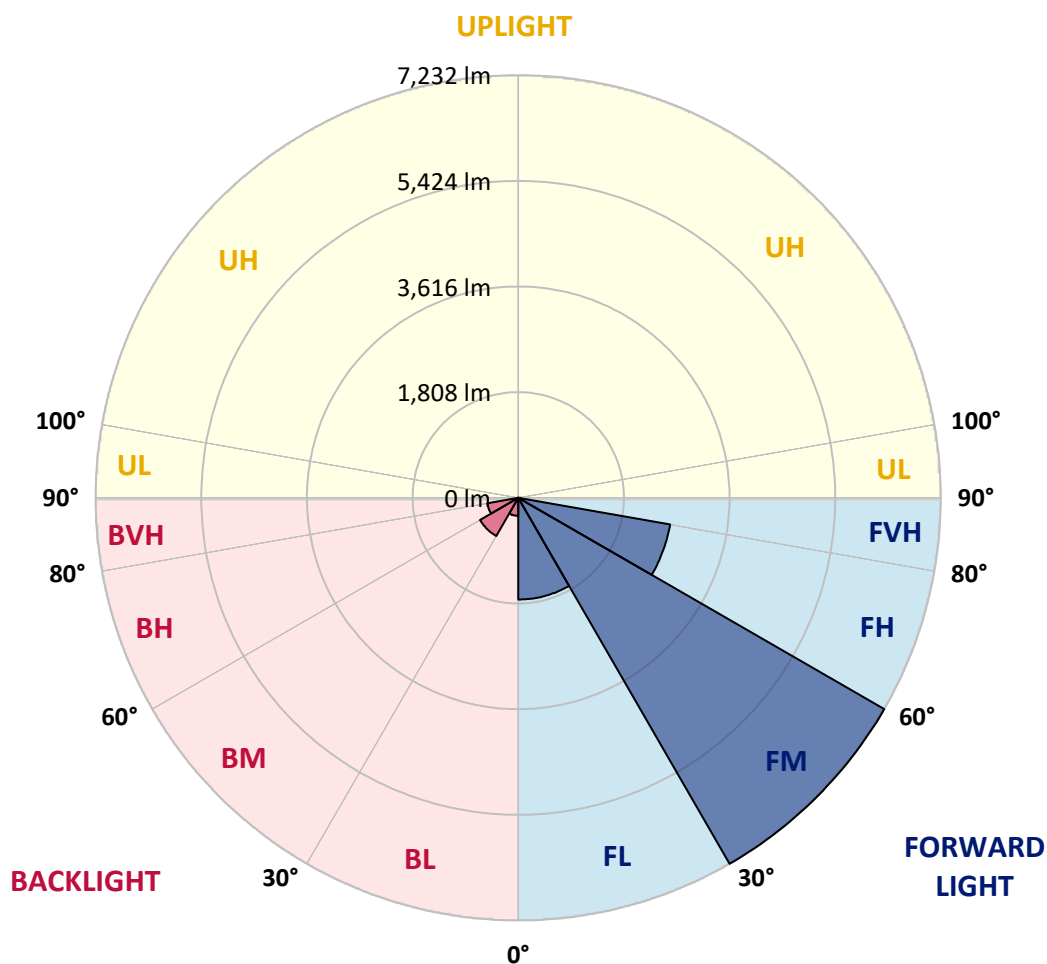
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1740.5	13.1			
FM	(30°-60°)	7232.1	54.5			
FH	(60°-80°)	2638.2	19.9			G2/5000
FVH	(80°-90°)	46.2	0.3			G1/100
BL	(0°-30°)	308.0	2.3	B1/500		
BM	(30°-60°)	755.2	5.7	B1/1000		
BH	(60°-80°)	538.6	4.1	B2/1000		G2/1000
BVH	(80°-90°)	12.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3
2.5°	2173.8	2135.6	2179.2	2173.8	2135.6	2111.1	2034.8	2010.3	1920.4	1855.1	1797.8
5°	2620.5	2582.4	2620.5	2609.6	2555.1	2495.2	2369.9	2288.2	2127.5	1985.8	1857.8
7.5°	2991.0	2991.0	3007.3	3010.0	2944.7	2852.0	2696.8	2574.2	2348.1	2130.2	1925.9
10°	3391.4	3394.1	3429.5	3405.0	3317.9	3192.5	2996.4	2841.1	2568.7	2282.7	1991.3
12.5°	3819.1	3821.8	3832.7	3821.8	3718.3	3557.6	3320.6	3116.3	2803.0	2457.1	2081.1
15°	4246.7	4249.5	4263.1	4244.0	4129.6	3941.6	3672.0	3421.4	3050.9	2653.2	2190.1
17.5°	4647.2	4652.6	4663.5	4639.0	4519.1	4295.8	4020.6	3718.3	3315.1	2862.9	2312.7
20°	5006.7	5012.2	5020.4	4987.7	4867.8	4644.4	4347.5	4031.5	3584.8	3078.1	2446.2
22.5°	5369.0	5374.5	5388.1	5344.5	5211.0	4955.0	4663.5	4336.6	3870.8	3315.1	2601.4
25°	5832.1	5837.6	5848.5	5785.8	5603.3	5303.7	4995.8	4660.8	4181.4	3582.1	2792.1
27.5°	6510.4	6504.9	6504.9	6390.5	6077.3	5687.7	5330.9	4990.4	4516.4	3868.1	3001.9
30°	7349.4	7335.8	7327.6	7172.3	6725.6	6120.9	5674.1	5298.2	4837.9	4170.5	3228.0
32.5°	8101.2	8101.2	8084.9	7921.4	7447.5	6703.8	6039.1	5597.9	5148.4	4475.6	3462.2
35°	8545.2	8564.3	8556.1	8433.6	8087.6	7330.3	6532.2	5957.4	5475.3	4794.3	3742.8
37.5°	8605.2	8643.3	8651.5	8577.9	8395.4	7842.4	7079.7	6347.0	5834.8	5137.5	4015.2
40°	8362.7	8444.4	8444.4	8433.6	8368.2	8084.9	7540.1	6799.1	6205.3	5494.3	4290.3
42.5°	7989.5	8074.0	8063.1	8103.9	8087.6	8027.7	7798.9	7221.4	6575.8	5862.1	4540.9
45°	7501.9	7589.1	7567.3	7640.9	7673.6	7738.9	7771.6	7515.6	6940.8	6262.5	4821.5
47.5°	6720.1	6867.2	6899.9	7030.7	7166.9	7371.2	7526.5	7621.8	7281.3	6692.9	5126.6
50°	5565.2	5772.2	5837.6	6112.7	6485.9	6908.1	7158.7	7491.0	7521.0	7134.2	5456.2
52.5°	3985.2	4224.9	4325.7	4777.9	5546.1	6281.6	6733.8	7202.3	7613.6	7556.4	5813.0
55°	2576.9	2781.2	2879.3	3304.2	4325.7	5480.7	6232.5	6829.1	7561.9	7943.2	6221.7
57.5°	1588.1	1705.2	1770.6	2135.6	3075.4	4453.8	5576.1	6485.9	7403.9	8278.3	6646.6
60°	1070.5	1138.6	1171.3	1342.9	2089.3	3328.7	4674.4	6126.3	7196.8	8504.4	7033.4
62.5°	711.0	732.8	765.4	871.7	1378.4	2337.2	3590.3	5483.4	7041.6	8518.0	7319.4
65°	550.3	561.1	574.8	621.1	849.9	1634.4	2525.2	4442.9	6810.0	8229.2	7409.3
67.5°	433.1	444.0	460.4	484.9	615.6	1108.7	1718.9	3255.2	6336.1	7777.1	7262.2
70°	340.5	348.7	359.6	381.4	479.4	803.6	1135.9	2162.9	5379.9	7346.7	6799.1
72.5°	269.7	277.8	288.7	310.5	389.5	588.4	779.1	1348.4	4148.7	6820.9	5908.4
75°	212.5	217.9	226.1	247.9	313.3	457.6	528.5	806.3	2819.4	5859.4	4603.6
77.5°	106.2	130.8	149.8	171.6	228.8	316.0	351.4	446.7	1190.4	3007.3	2195.6
80°	62.7	76.3	81.7	95.3	149.8	190.7	190.7	179.8	375.9	1155.0	896.2
82.5°	35.4	49.0	51.8	54.5	89.9	109.0	87.2	65.4	76.3	386.8	261.5
85°	10.9	16.3	19.1	21.8	30.0	32.7	30.0	27.2	21.8	38.1	24.5
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	5.4	5.4	8.2	8.2	8.2
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°	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3	1754.3
2.5°	1765.2	1729.7	1661.6	1599.0	1539.1	1495.5	1454.6	1416.5	1389.2	1367.5	1364.7
5°	1789.7	1718.9	1588.1	1465.5	1353.8	1261.2	1182.2	1119.6	1073.3	1040.6	1037.8
7.5°	1822.4	1713.4	1514.6	1332.0	1165.9	1032.4	918.0	833.5	773.6	749.1	730.0
10°	1849.6	1708.0	1441.0	1198.6	980.6	811.8	675.6	591.1	547.5	531.2	523.0
12.5°	1895.9	1713.4	1378.4	1076.0	819.9	621.1	517.6	471.3	452.2	438.6	435.8
15°	1964.0	1737.9	1318.4	956.1	656.5	501.2	441.3	411.3	392.3	389.5	386.8
17.5°	2032.1	1759.7	1263.9	833.5	544.8	435.8	395.0	370.5	356.8	354.1	354.1
20°	2111.1	1787.0	1204.0	716.4	465.8	392.3	359.6	340.5	324.2	321.4	321.4
22.5°	2203.7	1825.1	1146.8	612.9	414.1	359.6	332.3	310.5	296.9	294.2	294.2
25°	2329.0	1882.3	1100.5	536.6	378.6	332.3	307.8	288.7	277.8	272.4	272.4
27.5°	2468.0	1961.3	1067.8	490.3	354.1	310.5	286.0	269.7	258.8	253.3	253.3
30°	2623.2	2048.5	1046.0	471.3	340.5	291.5	269.7	253.3	239.7	237.0	237.0
32.5°	2794.8	2149.2	1032.4	474.0	337.8	277.8	253.3	237.0	226.1	220.6	220.6
35°	2985.5	2260.9	1024.2	490.3	343.2	267.0	239.7	223.4	212.5	207.0	207.0
37.5°	3198.0	2391.7	1024.2	506.7	356.8	264.2	226.1	209.7	201.6	196.1	196.1
40°	3396.8	2530.6	1035.1	525.7	370.5	264.2	215.2	201.6	190.7	185.2	185.2
42.5°	3552.1	2609.6	1043.3	544.8	378.6	261.5	204.3	190.7	182.5	177.1	177.1
45°	3729.2	2694.1	1027.0	553.0	378.6	256.1	196.1	182.5	174.3	168.9	168.9
47.5°	3925.3	2797.6	1024.2	558.4	370.5	245.2	188.0	174.3	168.9	163.4	163.4
50°	4124.2	2912.0	1029.7	555.7	359.6	228.8	177.1	168.9	160.7	155.3	155.3
52.5°	4350.3	3031.8	1040.6	550.3	335.1	209.7	168.9	160.7	152.5	147.1	144.4
55°	4600.9	3162.6	1062.4	539.4	302.4	190.7	160.7	152.5	141.6	136.2	133.5
57.5°	4889.6	3323.3	1086.9	517.6	267.0	174.3	152.5	141.6	125.3	117.1	114.4
60°	5164.7	3505.8	1114.1	465.8	231.5	158.0	144.4	128.0	111.7	106.2	103.5
62.5°	5423.5	3685.6	1127.7	373.2	196.1	144.4	136.2	117.1	100.8	95.3	92.6
65°	5589.7	3881.7	1097.8	253.3	160.7	133.5	125.3	109.0	92.6	84.4	84.4
67.5°	5600.6	3974.3	994.3	166.2	130.8	119.9	114.4	98.1	81.7	76.3	73.5
70°	5325.4	3835.4	760.0	130.8	109.0	103.5	103.5	87.2	70.8	65.4	62.7
72.5°	4693.5	3396.8	484.9	106.2	92.6	87.2	87.2	73.5	62.7	54.5	51.8
75°	3704.7	2620.5	258.8	87.2	76.3	73.5	68.1	59.9	51.8	46.3	43.6
77.5°	1702.5	1155.0	119.9	62.7	57.2	57.2	51.8	43.6	40.9	35.4	35.4
80°	672.8	392.3	59.9	40.9	38.1	38.1	38.1	30.0	30.0	24.5	21.8
82.5°	185.2	81.7	30.0	24.5	24.5	24.5	21.8	19.1	19.1	16.3	16.3
85°	19.1	13.6	13.6	13.6	13.6	10.9	10.9	8.2	5.4	5.4	5.4
87.5°	8.2	8.2	8.2	8.2	8.2	5.4	2.7	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)