

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: P836351

Luminaire Tested: **ARCH3-170-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17066 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

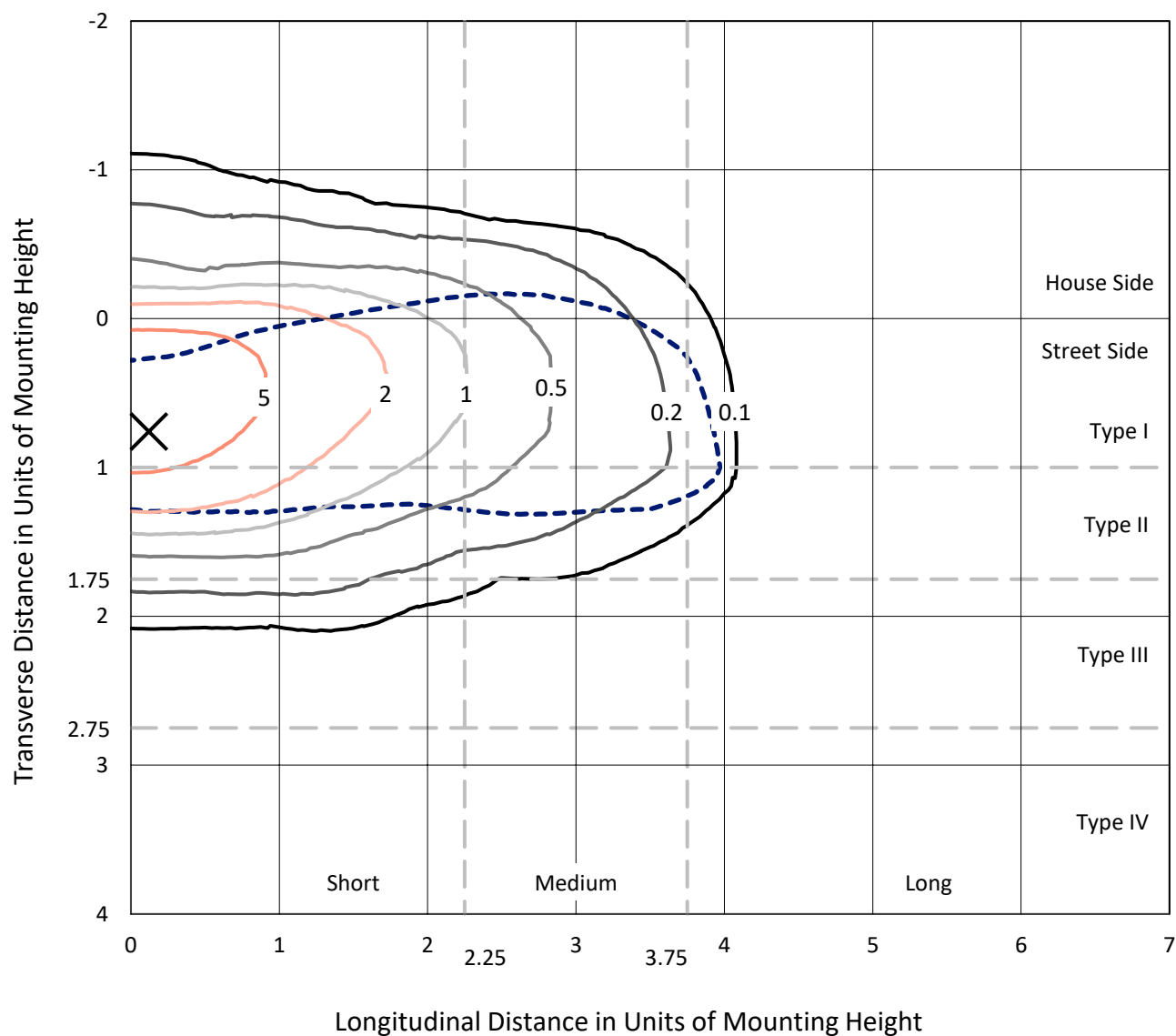
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

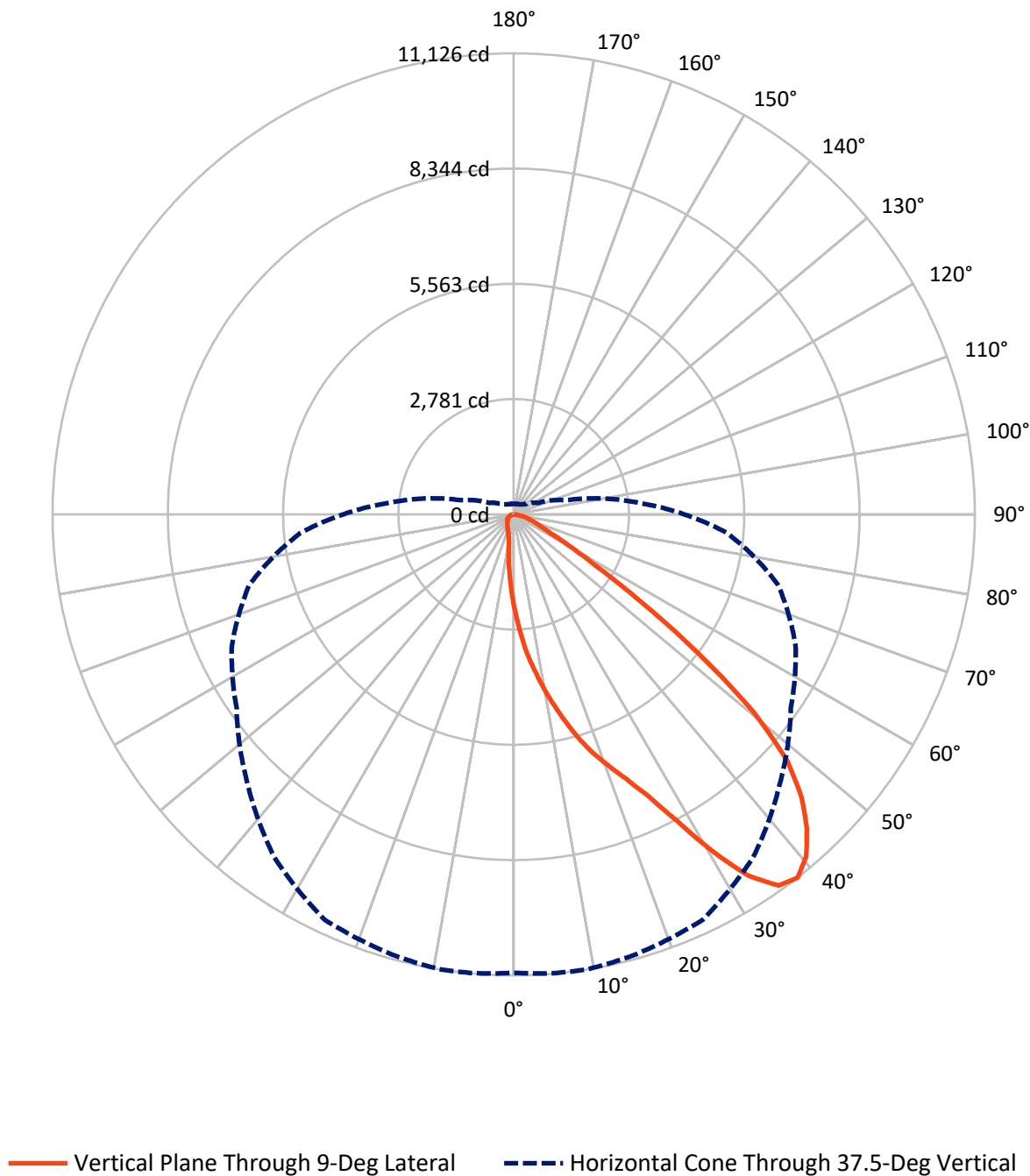
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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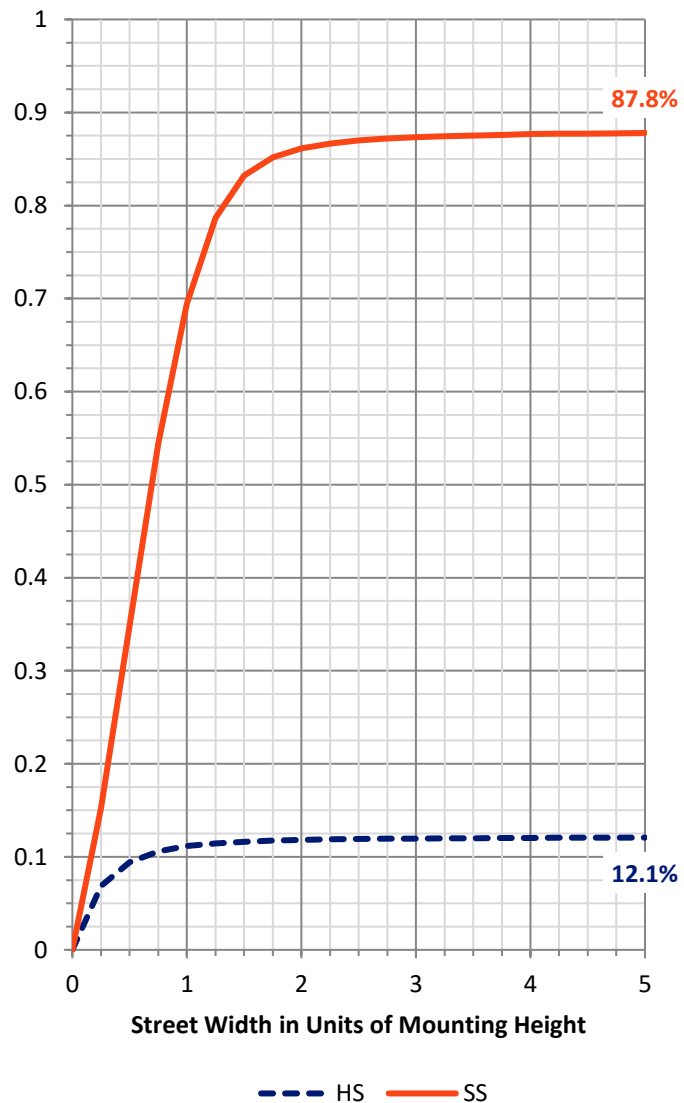
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.5	0.0	2075.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14990.5	0.0	14990.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	17066.0	0.0	17066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	1.3
10°-20°	788.1	4.6
20°-30°	1619.4	9.5
30°-40°	2862.4	16.8
40°-50°	3802.5	22.3
50°-60°	3606.4	21.1
60°-70°	2751.4	16.1
70°-80°	1333.9	7.8
80°-90°	75.1	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°	17066.0	100.0
0°-180°	17066.0	100.0

Coefficient of Utilization



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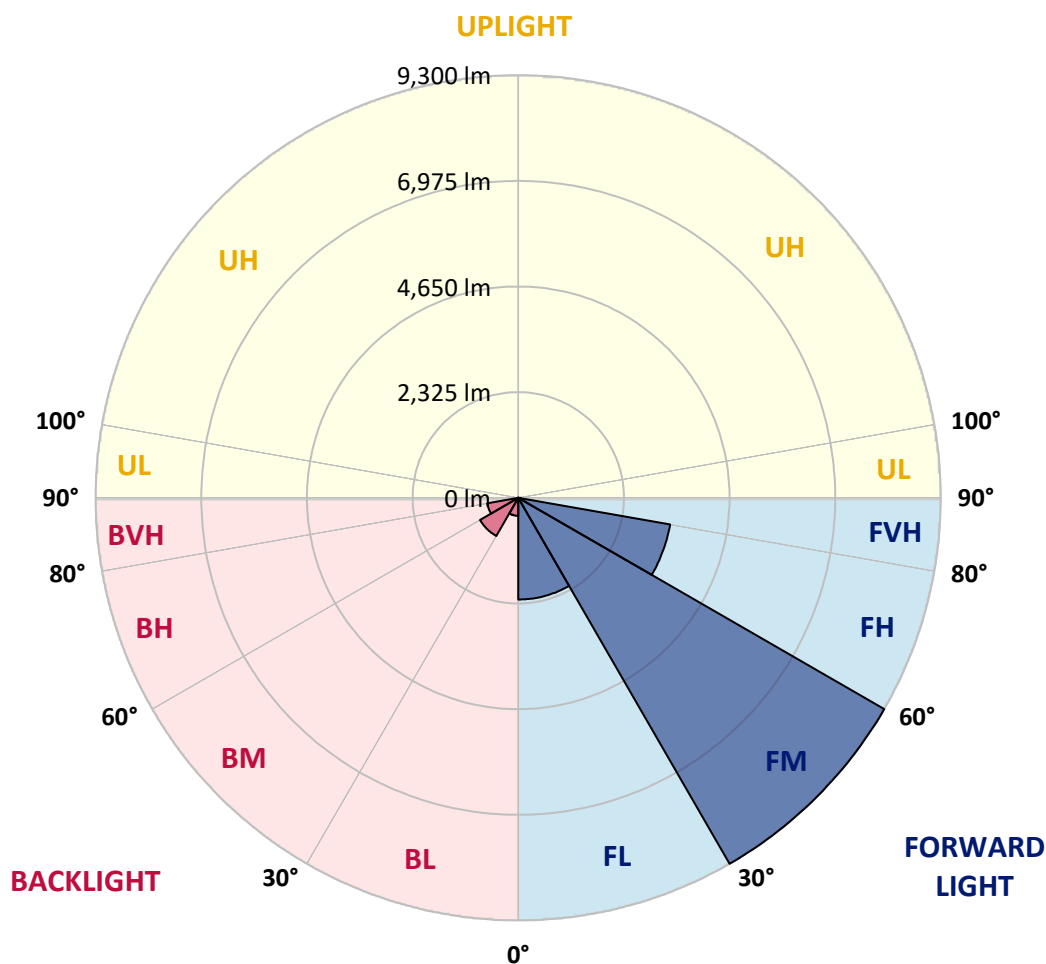
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2238.2	13.1			
FM	(30°-60°)	9300.1	54.5			
FH	(60°-80°)	3392.7	19.9			G2/5000
FVH	(80°-90°)	59.4	0.3			G1/100
BL	(0°-30°)	396.1	2.3	B1/500		
BM	(30°-60°)	971.2	5.7	B1/1000		
BH	(60°-80°)	692.6	4.1	B2/1000		G2/1000
BVH	(80°-90°)	15.6	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°	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9
2.5°	2795.4	2746.3	2802.4	2795.4	2746.3	2714.8	2616.7	2585.2	2469.6	2385.5	2312.0
5°	3369.9	3320.8	3369.9	3355.9	3285.8	3208.7	3047.6	2942.5	2735.8	2553.7	2389.0
7.5°	3846.3	3846.3	3867.3	3870.8	3786.7	3667.6	3467.9	3310.3	3019.6	2739.3	2476.6
10°	4361.2	4364.7	4410.3	4378.7	4266.6	4105.5	3853.3	3653.6	3303.3	2935.5	2560.7
12.5°	4911.2	4914.7	4928.7	4914.7	4781.6	4574.9	4270.1	4007.4	3604.6	3159.7	2676.3
15°	5461.1	5464.6	5482.2	5457.6	5310.5	5068.8	4722.0	4399.7	3923.3	3411.9	2816.4
17.5°	5976.1	5983.1	5997.1	5965.6	5811.4	5524.2	5170.4	4781.6	4263.1	3681.6	2974.0
20°	6438.5	6445.5	6456.0	6414.0	6259.8	5972.6	5590.8	5184.4	4609.9	3958.4	3145.7
22.5°	6904.4	6911.4	6928.9	6872.8	6701.2	6371.9	5997.1	5576.7	4977.7	4263.1	3345.3
25°	7499.9	7506.9	7520.9	7440.3	7205.6	6820.3	6424.5	5993.6	5377.1	4606.4	3590.6
27.5°	8372.1	8365.1	8365.1	8218.0	7815.1	7314.2	6855.3	6417.5	5807.9	4974.2	3860.3
30°	9451.0	9433.5	9423.0	9223.3	8648.9	7871.2	7296.7	6813.3	6221.3	5363.1	4151.0
32.5°	10417.9	10417.9	10396.8	10186.7	9577.1	8620.8	7766.1	7198.6	6620.6	5755.4	4452.3
35°	10988.8	11013.4	11002.9	10845.2	10400.3	9426.5	8400.1	7661.0	7041.0	6165.2	4813.1
37.5°	11065.9	11115.0	11125.5	11030.9	10796.2	10085.1	9104.2	8161.9	7503.4	6606.6	5163.4
40°	10754.1	10859.2	10859.2	10845.2	10761.2	10396.8	9696.2	8743.4	7979.8	7065.5	5517.2
42.5°	10274.2	10382.8	10368.8	10421.4	10400.3	10323.3	10029.0	9286.4	8456.2	7538.4	5839.5
45°	9647.2	9759.3	9731.3	9825.9	9867.9	9952.0	9994.0	9664.7	8925.6	8053.3	6200.3
47.5°	8641.9	8831.0	8873.0	9041.2	9216.3	9479.1	9678.7	9801.3	9363.5	8606.8	6592.6
50°	7156.6	7422.8	7506.9	7860.7	8340.6	8883.6	9205.8	9633.2	9671.7	9174.3	7016.5
52.5°	5124.9	5433.1	5562.7	6144.2	7132.1	8077.9	8659.4	9261.9	9790.8	9717.3	7475.4
55°	3313.8	3576.5	3702.6	4249.1	5562.7	7048.0	8014.8	8782.0	9724.3	10214.7	8000.8
57.5°	2042.2	2192.9	2276.9	2746.3	3954.9	5727.4	7170.6	8340.6	9521.1	10645.6	8547.3
60°	1376.7	1464.2	1506.3	1727.0	2686.8	4280.6	6011.1	7878.2	9254.9	10936.3	9044.7
62.5°	914.3	942.3	984.3	1121.0	1772.5	3005.6	4616.9	7051.5	9055.2	10953.8	9412.5
65°	707.6	721.6	739.1	798.7	1092.9	2101.8	3247.3	5713.4	8757.4	10582.5	9528.1
67.5°	557.0	571.0	592.0	623.5	791.7	1425.7	2210.4	4186.1	8147.9	10001.0	9338.9
70°	437.9	448.4	462.4	490.4	616.5	1033.4	1460.7	2781.4	6918.4	9447.5	8743.4
72.5°	346.8	357.3	371.3	399.3	500.9	756.6	1001.9	1734.0	5335.0	8771.5	7598.0
75°	273.2	280.2	290.7	318.8	402.8	588.5	679.6	1036.9	3625.6	7534.9	5920.0
77.5°	136.6	168.1	192.7	220.7	294.3	406.3	451.9	574.5	1530.8	3867.3	2823.4
80°	80.6	98.1	105.1	122.6	192.7	245.2	245.2	231.2	483.4	1485.3	1152.5
82.5°	45.5	63.1	66.6	70.1	115.6	140.1	112.1	84.1	98.1	497.4	336.3
85°	14.0	21.0	24.5	28.0	38.5	42.0	38.5	35.0	28.0	49.0	31.5
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	7.0	7.0	10.5	10.5	10.5
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°	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9	2255.9
2.5°	2269.9	2224.4	2136.8	2056.2	1979.2	1923.1	1870.6	1821.5	1786.5	1758.5	1755.0
5°	2301.5	2210.4	2042.2	1884.6	1741.0	1621.9	1520.3	1439.7	1380.2	1338.1	1334.6
7.5°	2343.5	2203.4	1947.7	1713.0	1499.3	1327.6	1180.5	1071.9	994.8	963.3	938.8
10°	2378.5	2196.4	1853.1	1541.3	1261.1	1043.9	868.7	760.1	704.1	683.1	672.6
12.5°	2438.1	2203.4	1772.5	1383.7	1054.4	798.7	665.6	606.0	581.5	564.0	560.5
15°	2525.6	2234.9	1695.4	1229.5	844.2	644.5	567.5	528.9	504.4	500.9	497.4
17.5°	2613.2	2262.9	1625.4	1071.9	700.6	560.5	507.9	476.4	458.9	455.4	455.4
20°	2714.8	2298.0	1548.3	921.3	599.0	504.4	462.4	437.9	416.9	413.4	413.4
22.5°	2833.9	2347.0	1474.8	788.2	532.5	462.4	427.4	399.3	381.8	378.3	378.3
25°	2995.0	2420.6	1415.2	690.1	486.9	427.4	395.8	371.3	357.3	350.3	350.3
27.5°	3173.7	2522.1	1373.2	630.5	455.4	399.3	367.8	346.8	332.8	325.8	325.8
30°	3373.4	2634.2	1345.1	606.0	437.9	374.8	346.8	325.8	308.3	304.8	304.8
32.5°	3594.1	2763.9	1327.6	609.5	434.4	357.3	325.8	304.8	290.7	283.7	283.7
35°	3839.3	2907.5	1317.1	630.5	441.4	343.3	308.3	287.2	273.2	266.2	266.2
37.5°	4112.5	3075.6	1317.1	651.6	458.9	339.8	290.7	269.7	259.2	252.2	252.2
40°	4368.2	3254.3	1331.1	676.1	476.4	339.8	276.7	259.2	245.2	238.2	238.2
42.5°	4567.9	3355.9	1341.6	700.6	486.9	336.3	262.7	245.2	234.7	227.7	227.7
45°	4795.6	3464.4	1320.6	711.1	486.9	329.3	252.2	234.7	224.2	217.2	217.2
47.5°	5047.8	3597.6	1317.1	718.1	476.4	315.3	241.7	224.2	217.2	210.2	210.2
50°	5303.5	3744.7	1324.1	714.6	462.4	294.3	227.7	217.2	206.7	199.7	199.7
52.5°	5594.3	3898.8	1338.1	707.6	430.9	269.7	217.2	206.7	196.2	189.2	185.7
55°	5916.5	4067.0	1366.2	693.6	388.8	245.2	206.7	196.2	182.2	175.1	171.6
57.5°	6287.8	4273.6	1397.7	665.6	343.3	224.2	196.2	182.2	161.1	150.6	147.1
60°	6641.6	4508.3	1432.7	599.0	297.8	203.2	185.7	164.6	143.6	136.6	133.1
62.5°	6974.4	4739.5	1450.2	479.9	252.2	185.7	175.1	150.6	129.6	122.6	119.1
65°	7188.1	4991.7	1411.7	325.8	206.7	171.6	161.1	140.1	119.1	108.6	108.6
67.5°	7202.1	5110.8	1278.6	213.7	168.1	154.1	147.1	126.1	105.1	98.1	94.6
70°	6848.3	4932.2	977.3	168.1	140.1	133.1	133.1	112.1	91.1	84.1	80.6
72.5°	6035.6	4368.2	623.5	136.6	119.1	112.1	112.1	94.6	80.6	70.1	66.6
75°	4764.1	3369.9	332.8	112.1	98.1	94.6	87.6	77.1	66.6	59.6	56.0
77.5°	2189.4	1485.3	154.1	80.6	73.6	73.6	66.6	56.0	52.5	45.5	45.5
80°	865.2	504.4	77.1	52.5	49.0	49.0	49.0	38.5	38.5	31.5	28.0
82.5°	238.2	105.1	38.5	31.5	31.5	31.5	28.0	24.5	24.5	21.0	21.0
85°	24.5	17.5	17.5	17.5	17.5	14.0	14.0	10.5	7.0	7.0	7.0
87.5°	10.5	10.5	10.5	10.5	10.5	7.0	3.5	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)