

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: P842099

Luminaire Tested: **ARCH4-270-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842099
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: ARCH4-270-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1045mA 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: 26731 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
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

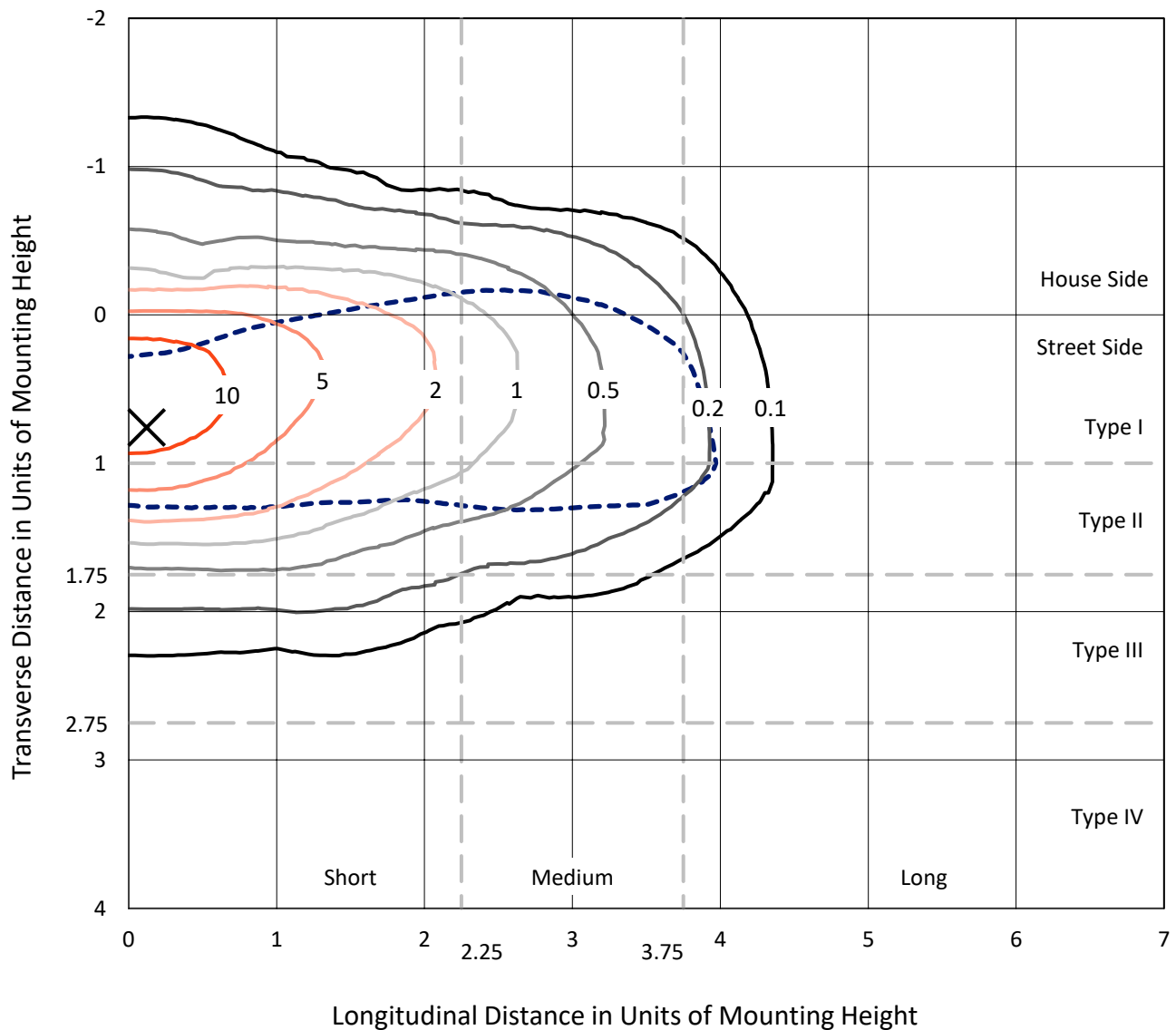


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

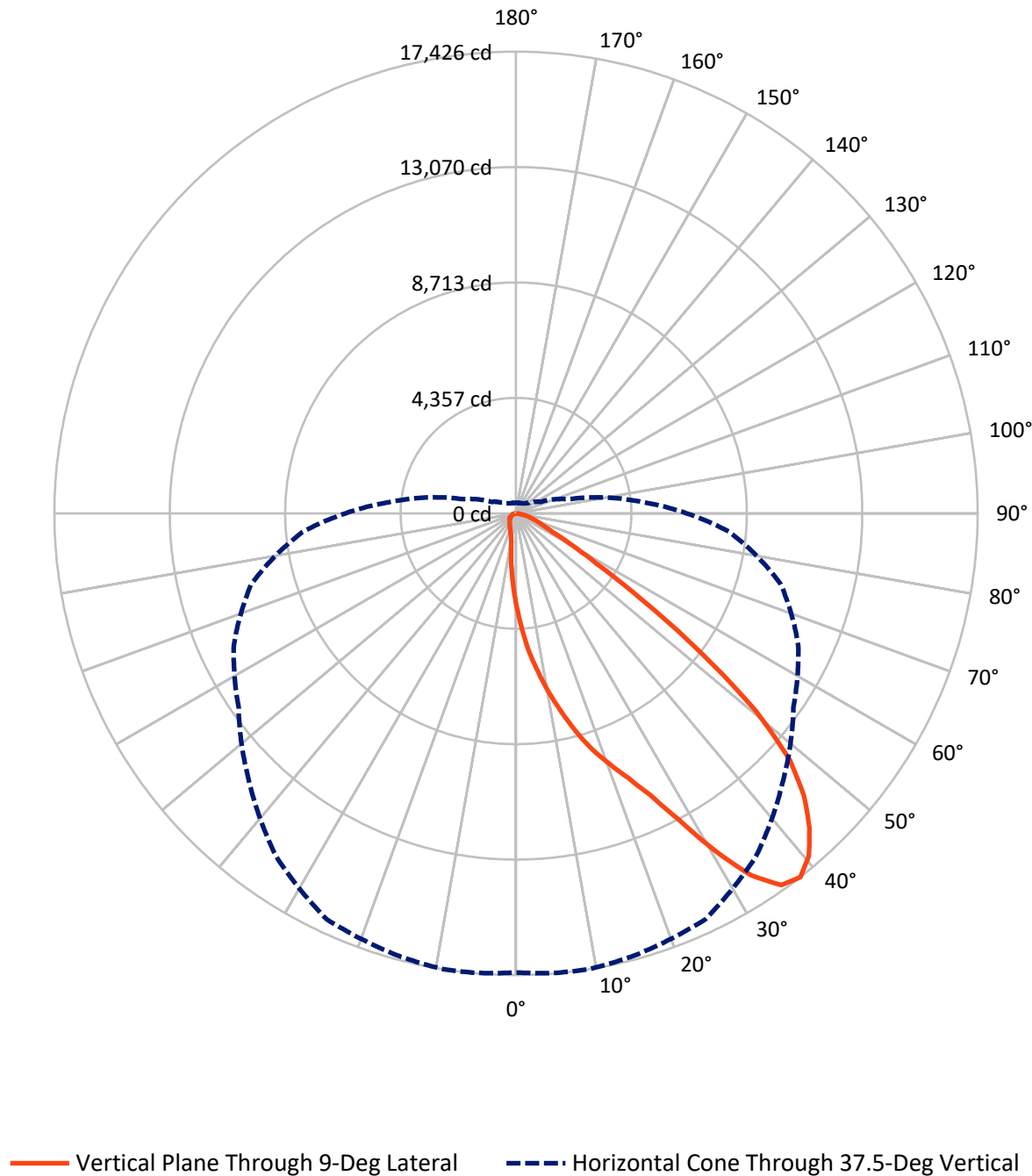


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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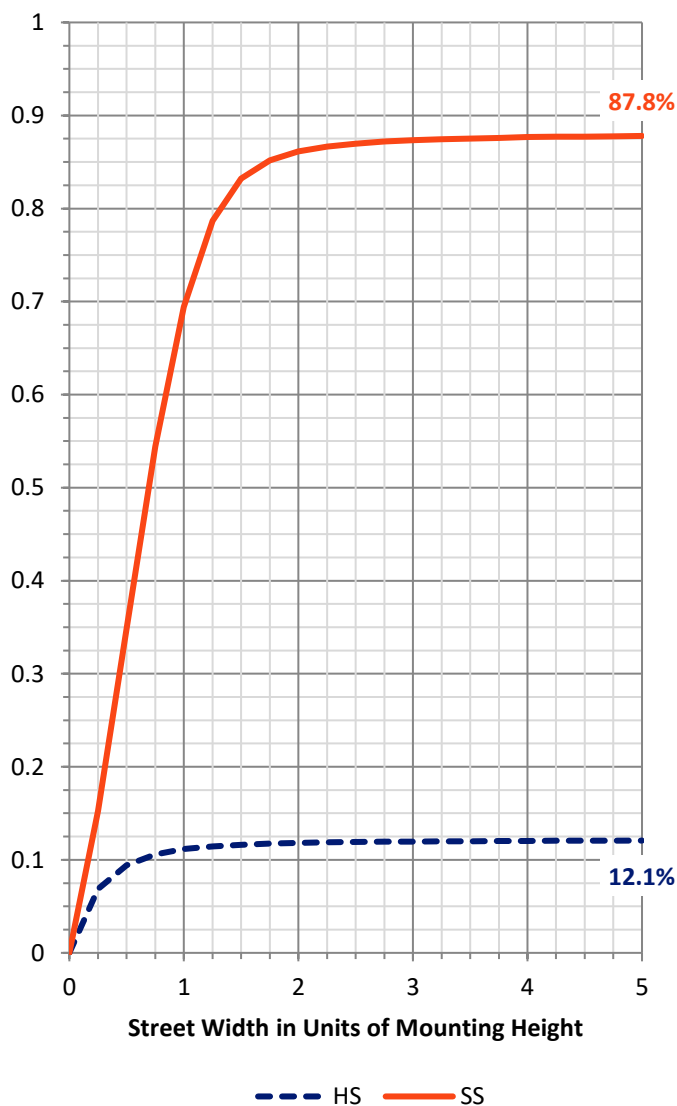
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3251.0	0.0	3251.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23480.0	0.0	23480.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	26731.0	0.0	26731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.2	1.3
10°-20°	1234.5	4.6
20°-30°	2536.5	9.5
30°-40°	4483.5	16.8
40°-50°	5956.0	22.3
50°-60°	5648.9	21.1
60°-70°	4309.6	16.1
70°-80°	2089.3	7.8
80°-90°	117.6	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°	26731.0	100.0
0°-180°	26731.0	100.0

Coefficient of Utilization



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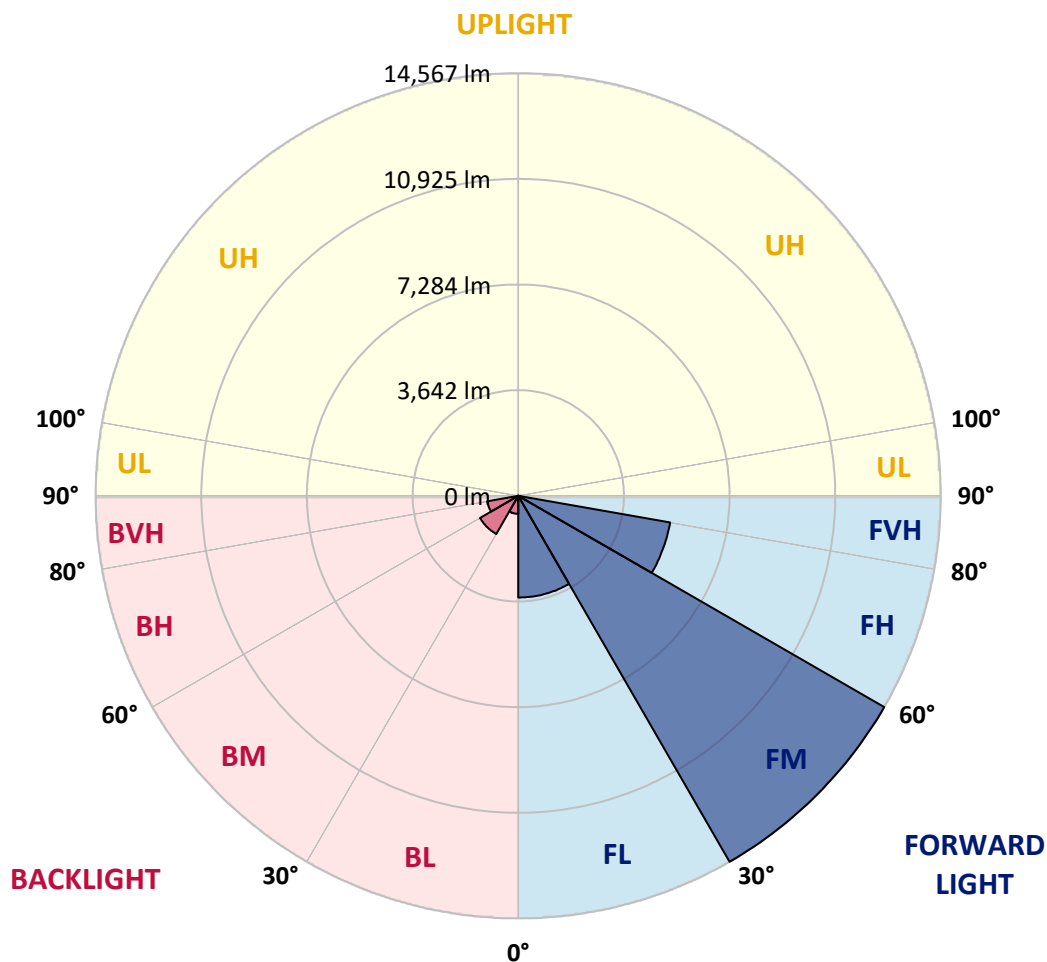
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3505.8	13.1			
FM	(30°-60°)	14567.1	54.5			
FH	(60°-80°)	5314.0	19.9			G3/7500
FVH	(80°-90°)	93.1	0.3			G1/100
BL	(0°-30°)	620.4	2.3	B2/1000		
BM	(30°-60°)	1521.2	5.7	B2/2500		
BH	(60°-80°)	1084.8	4.1	B3/2500		G3/2500
BVH	(80°-90°)	24.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5
2.5°	4378.5	4301.7	4389.5	4378.5	4301.7	4252.3	4098.7	4049.3	3868.2	3736.5	3621.3
5°	5278.3	5201.5	5278.3	5256.4	5146.6	5025.9	4773.5	4608.9	4285.2	3999.9	3742.0
7.5°	6024.5	6024.5	6057.5	6062.9	5931.3	5744.7	5432.0	5185.0	4729.6	4290.7	3879.2
10°	6831.1	6836.6	6907.9	6858.5	6683.0	6430.6	6035.5	5722.8	5174.1	4598.0	4010.9
12.5°	7692.5	7698.0	7720.0	7698.0	7489.5	7165.8	6688.4	6276.9	5645.9	4949.1	4191.9
15°	8554.0	8559.4	8586.9	8548.5	8318.0	7939.4	7396.2	6891.5	6145.2	5344.2	4411.4
17.5°	9360.5	9371.5	9393.4	9344.1	9102.6	8652.7	8098.6	7489.5	6677.5	5766.7	4658.3
20°	10084.8	10095.8	10112.2	10046.4	9805.0	9355.0	8757.0	8120.5	7220.7	6200.1	4927.2
22.5°	10814.5	10825.5	10852.9	10765.1	10496.3	9980.5	9393.4	8735.0	7796.8	6677.5	5239.9
25°	11747.3	11758.3	11780.2	11654.0	11286.4	10682.8	10062.8	9388.0	8422.3	7215.2	5624.0
27.5°	13113.5	13102.5	13102.5	12872.1	12241.1	11456.5	10737.7	10051.9	9097.2	7791.3	6046.5
30°	14803.5	14776.0	14759.6	14446.8	13547.0	12328.9	11429.1	10671.9	9744.6	8400.3	6501.9
32.5°	16317.8	16317.8	16284.9	15955.7	15001.0	13503.1	12164.3	11275.4	10370.1	9014.9	6973.8
35°	17212.2	17250.6	17234.1	16987.2	16290.4	14765.0	13157.4	11999.7	11028.5	9656.8	7538.9
37.5°	17332.9	17409.7	17426.2	17278.0	16910.4	15796.6	14260.3	12784.3	11752.8	10348.2	8087.6
40°	16844.6	17009.2	17009.2	16987.2	16855.5	16284.9	15187.5	13695.1	12499.0	11066.9	8641.7
42.5°	16092.9	16262.9	16241.0	16323.3	16290.4	16169.7	15708.8	14545.6	13245.2	11807.6	9146.5
45°	15110.7	15286.3	15242.4	15390.5	15456.4	15588.1	15653.9	15138.1	13980.4	12614.2	9711.7
47.5°	13536.0	13832.3	13898.1	14161.5	14435.8	14847.3	15160.1	15352.1	14666.3	13481.1	10326.2
50°	11209.6	11626.6	11758.3	12312.4	13064.1	13914.6	14419.4	15088.8	15149.1	14370.0	10990.1
52.5°	8027.2	8510.1	8713.1	9623.9	11171.2	12652.6	13563.4	14507.2	15335.7	15220.5	11708.9
55°	5190.5	5602.0	5799.6	6655.5	8713.1	11039.5	12553.9	13755.5	15231.4	15999.6	12531.9
57.5°	3198.8	3434.8	3566.4	4301.7	6194.6	8971.0	11231.5	13064.1	14913.2	16674.5	13387.9
60°	2156.3	2293.5	2359.3	2705.0	4208.4	6704.9	9415.4	12339.9	14496.2	17129.9	14167.0
62.5°	1432.1	1476.0	1541.8	1755.8	2776.3	4707.7	7231.6	11045.0	14183.4	17157.3	14743.1
65°	1108.3	1130.3	1157.7	1251.0	1711.9	3292.1	5086.3	8949.0	13717.1	16575.7	14924.2
67.5°	872.4	894.4	927.3	976.7	1240.0	2233.1	3462.2	6556.8	12762.4	15664.9	14627.9
70°	685.9	702.3	724.3	768.2	965.7	1618.6	2288.0	4356.5	10836.5	14798.0	13695.1
72.5°	543.2	559.7	581.6	625.5	784.6	1185.2	1569.2	2716.0	8356.4	13739.0	11900.9
75°	428.0	438.9	455.4	499.3	631.0	921.8	1064.4	1624.1	5678.9	11802.2	9272.7
77.5°	214.0	263.4	301.8	345.7	460.9	636.5	707.8	899.8	2397.7	6057.5	4422.4
80°	126.2	153.6	164.6	192.0	301.8	384.1	384.1	362.1	757.2	2326.4	1805.2
82.5°	71.3	98.8	104.2	109.7	181.1	219.5	175.6	131.7	153.6	779.1	526.7
85°	21.9	32.9	38.4	43.9	60.4	65.8	60.4	54.9	43.9	76.8	49.4
87.5°	0.0	0.0	0.0	0.0	5.5	11.0	11.0	11.0	16.5	16.5	16.5
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°	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5	3533.5
2.5°	3555.5	3484.1	3347.0	3220.8	3100.1	3012.3	2930.0	2853.1	2798.3	2754.4	2748.9
5°	3604.8	3462.2	3198.8	2951.9	2727.0	2540.4	2381.3	2255.1	2161.8	2096.0	2090.5
7.5°	3670.7	3451.2	3050.7	2683.1	2348.4	2079.5	1849.1	1679.0	1558.3	1508.9	1470.5
10°	3725.6	3440.2	2902.5	2414.2	1975.3	1635.1	1360.7	1190.6	1102.9	1069.9	1053.5
12.5°	3818.8	3451.2	2776.3	2167.3	1651.5	1251.0	1042.5	949.2	910.8	883.4	877.9
15°	3956.0	3500.6	2655.6	1925.9	1322.3	1009.6	888.9	828.5	790.1	784.6	779.1
17.5°	4093.2	3544.5	2545.9	1679.0	1097.4	877.9	795.6	746.2	718.8	713.3	713.3
20°	4252.3	3599.4	2425.2	1443.0	938.2	790.1	724.3	685.9	652.9	647.4	647.4
22.5°	4438.8	3676.2	2310.0	1234.5	834.0	724.3	669.4	625.5	598.1	592.6	592.6
25°	4691.2	3791.4	2216.7	1080.9	762.7	669.4	620.0	581.6	559.7	548.7	548.7
27.5°	4971.1	3950.5	2150.8	987.6	713.3	625.5	576.1	543.2	521.2	510.3	510.3
30°	5283.8	4126.1	2106.9	949.2	685.9	587.1	543.2	510.3	482.8	477.4	477.4
32.5°	5629.5	4329.1	2079.5	954.7	680.4	559.7	510.3	477.4	455.4	444.4	444.4
35°	6013.6	4554.1	2063.0	987.6	691.3	537.7	482.8	449.9	428.0	417.0	417.0
37.5°	6441.5	4817.4	2063.0	1020.5	718.8	532.2	455.4	422.5	406.0	395.1	395.1
40°	6842.1	5097.3	2085.0	1059.0	746.2	532.2	433.5	406.0	384.1	373.1	373.1
42.5°	7154.8	5256.4	2101.5	1097.4	762.7	526.7	411.5	384.1	367.6	356.6	356.6
45°	7511.5	5426.5	2068.5	1113.8	762.7	515.8	395.1	367.6	351.2	340.2	340.2
47.5°	7906.5	5635.0	2063.0	1124.8	746.2	493.8	378.6	351.2	340.2	329.2	329.2
50°	8307.1	5865.4	2074.0	1119.3	724.3	460.9	356.6	340.2	323.7	312.7	312.7
52.5°	8762.5	6106.8	2096.0	1108.3	674.9	422.5	340.2	323.7	307.3	296.3	290.8
55°	9267.2	6370.2	2139.9	1086.4	609.0	384.1	323.7	307.3	285.3	274.3	268.9
57.5°	9848.8	6693.9	2189.2	1042.5	537.7	351.2	307.3	285.3	252.4	235.9	230.4
60°	10403.0	7061.5	2244.1	938.2	466.4	318.2	290.8	257.9	225.0	214.0	208.5
62.5°	10924.3	7423.7	2271.5	751.7	395.1	290.8	274.3	235.9	203.0	192.0	186.6
65°	11259.0	7818.7	2211.2	510.3	323.7	268.9	252.4	219.5	186.6	170.1	170.1
67.5°	11280.9	8005.3	2002.7	334.7	263.4	241.4	230.4	197.5	164.6	153.6	148.1
70°	10726.7	7725.4	1530.8	263.4	219.5	208.5	208.5	175.6	142.7	131.7	126.2
72.5°	9453.8	6842.1	976.7	214.0	186.6	175.6	175.6	148.1	126.2	109.7	104.2
75°	7462.1	5278.3	521.2	175.6	153.6	148.1	137.2	120.7	104.2	93.3	87.8
77.5°	3429.3	2326.4	241.4	126.2	115.2	115.2	104.2	87.8	82.3	71.3	71.3
80°	1355.2	790.1	120.7	82.3	76.8	76.8	76.8	60.4	60.4	49.4	43.9
82.5°	373.1	164.6	60.4	49.4	49.4	49.4	43.9	38.4	38.4	32.9	32.9
85°	38.4	27.4	27.4	27.4	27.4	21.9	21.9	16.5	11.0	11.0	11.0
87.5°	16.5	16.5	16.5	16.5	16.5	11.0	5.5	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)