

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: P836182

Luminaire Tested: **ARCH3-150-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14659 lumens
Efficiency: N/A
Efficacy: 97.3 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): 150.7
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



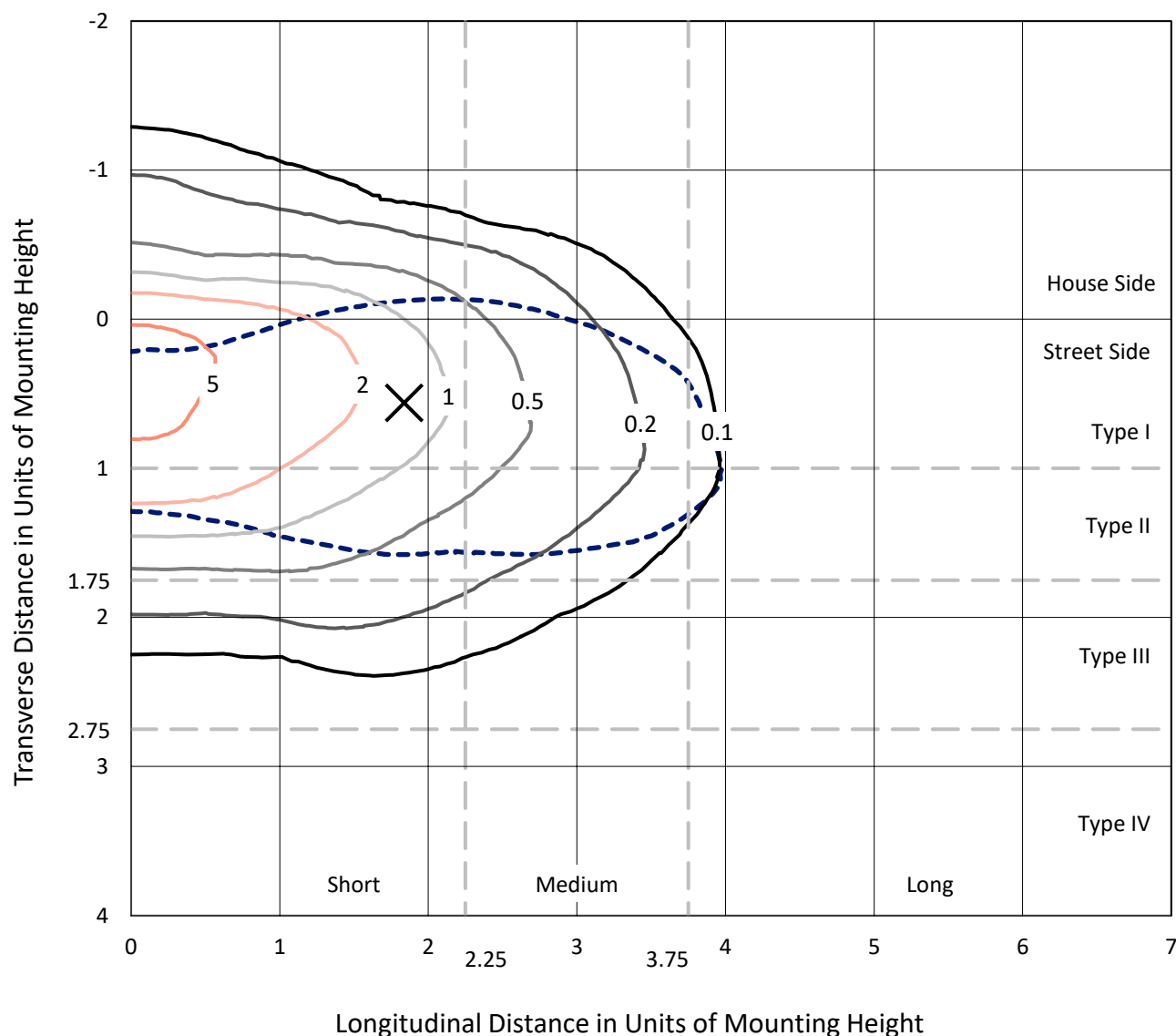
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

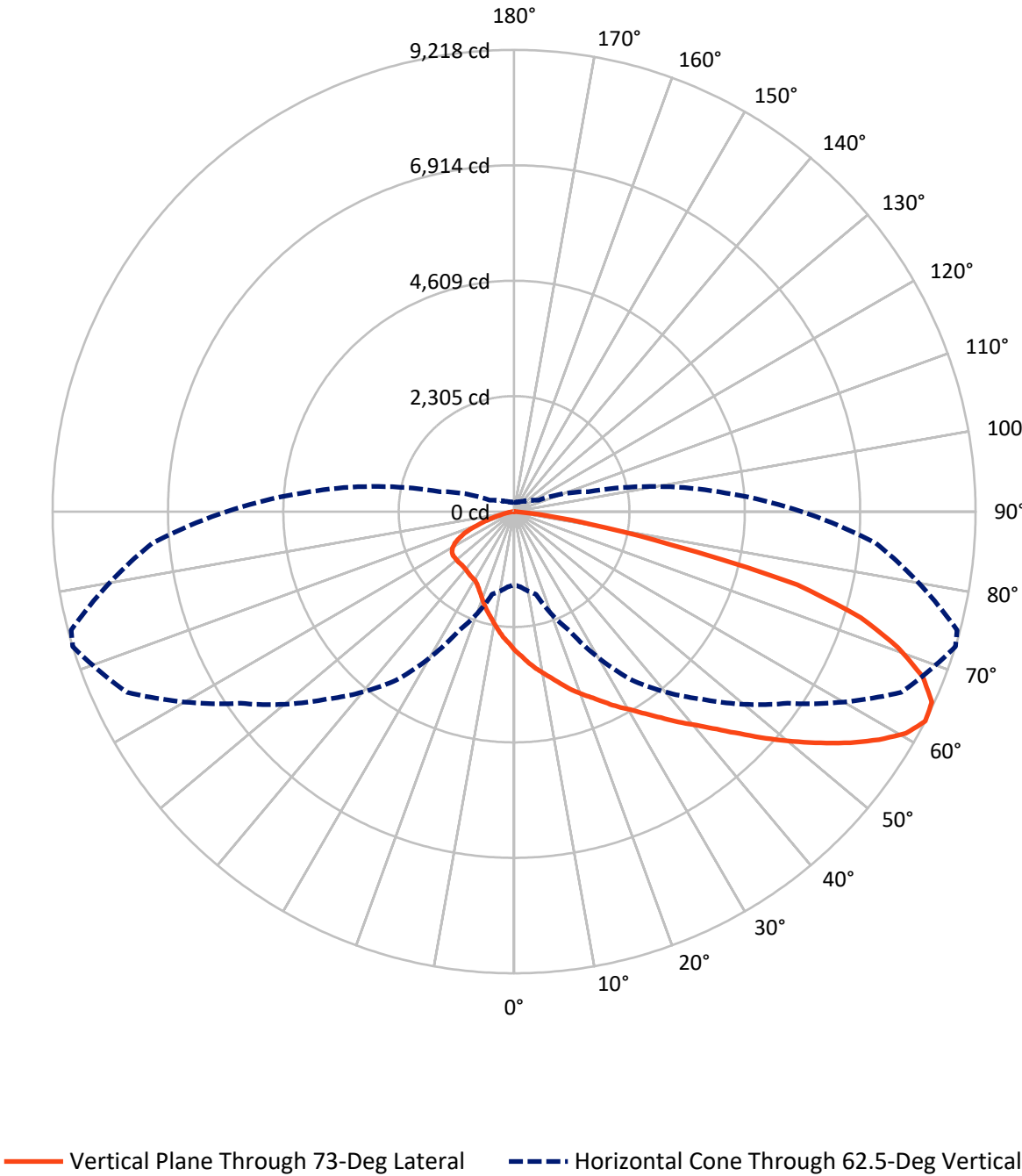


Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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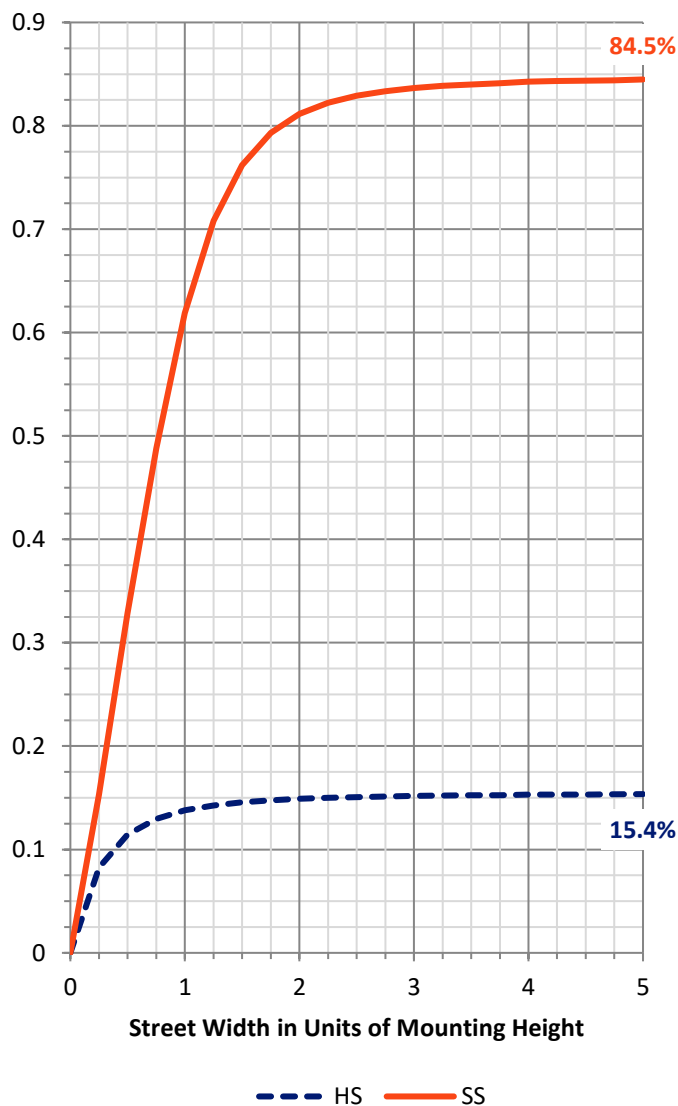
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2272.4	0.0	2272.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12386.6	0.0	12386.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	14659.0	0.0	14659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	1.8
10°-20°	809.2	5.5
20°-30°	1346.9	9.2
30°-40°	2032.2	13.9
40°-50°	2840.5	19.4
50°-60°	3137.5	21.4
60°-70°	2733.2	18.6
70°-80°	1380.6	9.4
80°-90°	110.8	0.8
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°	14659.0	100.0
0°-180°	14659.0	100.0

Coefficient of Utilization



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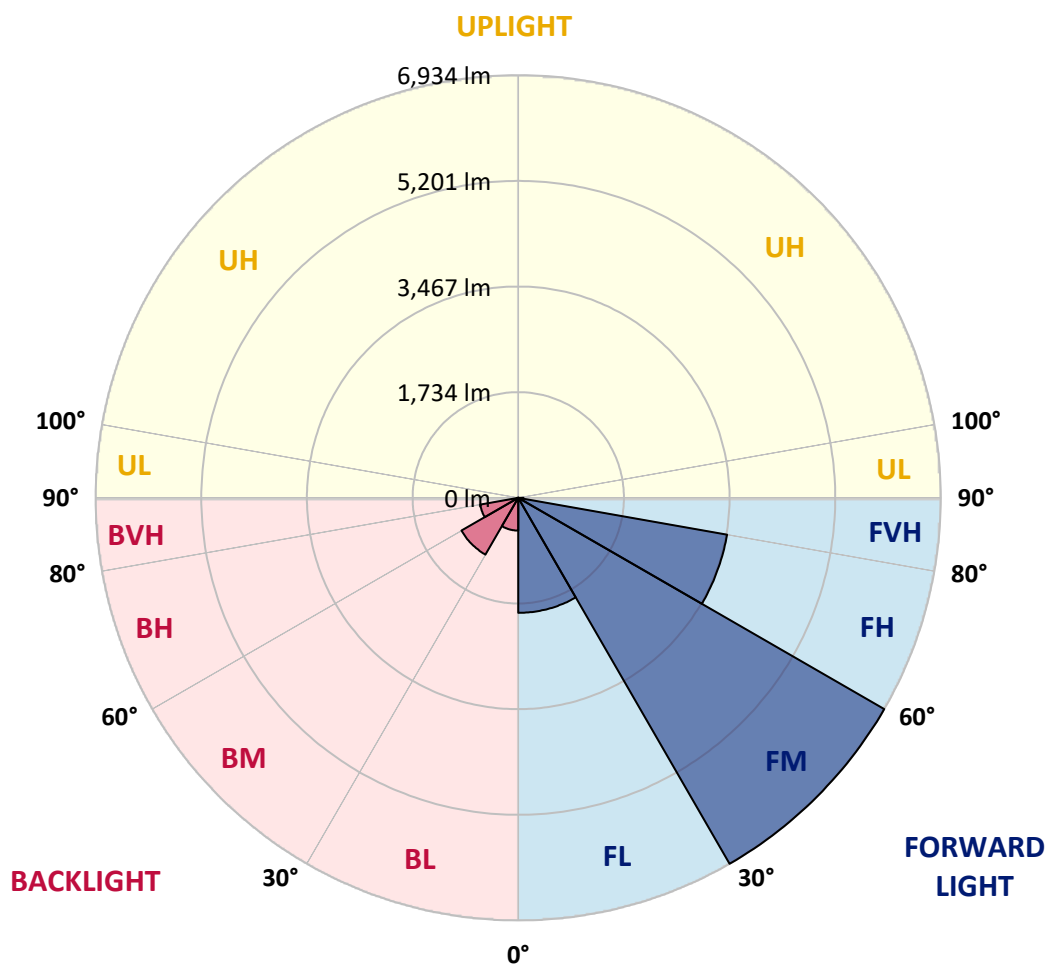
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1887.1	12.9			
FM	(30°-60°)	6934.2	47.3			
FH	(60°-80°)	3479.6	23.7			G2/5000
FVH	(80°-90°)	85.8	0.6			G1/100
BL	(0°-30°)	537.1	3.7	B2/1000		
BM	(30°-60°)	1076.0	7.3	B2/2500		
BH	(60°-80°)	634.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.1	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7
2.5°	3159.0	3194.1	3175.0	3187.8	3123.9	3082.4	3034.4	2941.8	2890.7	2884.3	2823.6
5°	3622.2	3660.5	3628.5	3619.0	3507.2	3411.3	3302.7	3139.8	3031.2	3012.1	2877.9
7.5°	4085.3	4120.4	4082.1	4053.4	3903.2	3734.0	3574.2	3334.7	3165.4	3133.5	2922.6
10°	4411.1	4443.1	4414.3	4385.6	4229.0	4056.6	3829.8	3516.8	3286.8	3235.7	2951.4
12.5°	4657.1	4676.2	4663.5	4637.9	4491.0	4305.7	4088.5	3721.2	3424.1	3360.2	2996.1
15°	4858.3	4890.2	4874.3	4855.1	4714.6	4529.3	4321.7	3935.2	3583.8	3504.0	3063.2
17.5°	4992.4	5014.8	5018.0	5018.0	4893.4	4711.4	4510.1	4130.0	3743.5	3641.3	3127.1
20°	5053.1	5078.7	5094.7	5120.2	5018.0	4861.5	4657.1	4296.1	3893.7	3778.7	3187.8
22.5°	5081.9	5104.2	5145.8	5203.3	5120.2	4989.3	4800.8	4449.4	4043.8	3922.4	3258.0
25°	5104.2	5133.0	5193.7	5302.3	5244.8	5133.0	4970.1	4625.1	4222.7	4098.1	3360.2
27.5°	5164.9	5200.1	5257.6	5388.5	5318.3	5264.0	5149.0	4813.6	4411.1	4283.3	3484.8
30°	5375.7	5404.5	5401.3	5484.3	5398.1	5382.1	5302.3	4995.6	4593.2	4465.4	3631.7
32.5°	5759.0	5787.8	5717.5	5685.6	5497.1	5500.3	5468.4	5190.5	4810.4	4679.4	3801.0
35°	6171.1	6203.0	6110.4	6056.1	5739.9	5647.2	5663.2	5433.2	5053.1	4922.2	4011.8
37.5°	6538.4	6576.7	6496.9	6417.0	6097.6	5883.6	5880.4	5704.7	5331.0	5196.9	4245.0
40°	6739.6	6784.4	6832.3	6787.6	6452.2	6215.8	6113.6	5982.6	5605.7	5468.4	4497.4
42.5°	6835.5	6960.0	7046.3	7017.5	6742.8	6503.3	6381.9	6273.3	5941.1	5807.0	4797.6
45°	6567.2	6570.4	6752.4	6908.9	6857.8	6698.1	6675.8	6599.1	6324.4	6196.6	5136.2
47.5°	6231.8	6206.2	6334.0	6611.9	6755.6	6797.1	6928.1	6960.0	6762.0	6634.2	5481.2
50°	5426.9	5442.8	5858.1	6257.3	6538.4	6806.7	7107.0	7330.6	7212.4	7091.0	5845.3
52.5°	4414.3	4452.6	4928.6	5807.0	6250.9	6710.9	7212.4	7701.1	7672.3	7557.3	6209.4
55°	3539.1	3599.8	4104.5	5056.3	5883.6	6496.9	7257.1	8039.7	8148.3	8042.9	6567.2
57.5°	2705.4	2769.3	3194.1	4171.6	5414.1	6148.7	7225.2	8336.7	8592.3	8525.2	6896.2
60°	2037.9	2101.7	2373.3	3382.6	4826.4	5759.0	7065.5	8531.6	8991.5	8921.2	7135.7
62.5°	1459.7	1510.8	1712.1	2632.0	4110.9	5295.9	6672.6	8534.8	9218.3	9160.8	7250.7
65°	1050.9	1050.9	1213.8	1878.2	3440.1	4740.1	6078.5	8141.9	9170.4	9154.4	7170.9
67.5°	757.0	763.4	894.4	1312.8	2743.8	4066.1	5308.7	7442.4	8799.9	8879.7	6883.4
70°	536.6	552.6	613.3	916.7	2073.0	3210.1	4484.6	6525.6	8132.3	8272.8	6327.6
72.5°	415.2	424.8	466.3	638.8	1514.0	2386.0	3574.2	5503.5	7241.1	7400.8	5570.6
75°	319.4	329.0	360.9	469.5	1086.0	1673.7	2539.3	4270.6	5838.9	6123.2	4475.0
77.5°	233.2	245.9	268.3	341.8	632.4	1063.7	1539.6	2402.0	3222.9	3357.0	2344.5
80°	108.6	124.6	156.5	220.4	341.8	501.5	546.2	926.3	1549.2	1619.4	1271.3
82.5°	60.7	76.7	89.4	134.2	172.5	178.9	185.3	233.2	584.5	645.2	533.4
85°	28.7	38.3	41.5	57.5	57.5	51.1	60.7	44.7	95.8	115.0	111.8
87.5°	0.0	3.2	6.4	16.0	12.8	9.6	9.6	9.6	9.6	12.8	9.6
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°	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7	2775.7
2.5°	2794.9	2753.4	2657.5	2574.5	2520.2	2472.3	2408.4	2379.6	2328.5	2338.1	2309.4
5°	2810.8	2734.2	2564.9	2408.4	2293.4	2191.2	2079.4	2015.5	1945.2	1938.8	1916.5
7.5°	2820.4	2702.2	2459.5	2239.1	2063.4	1906.9	1756.8	1673.7	1587.5	1568.3	1549.2
10°	2810.8	2654.3	2350.9	2063.4	1830.2	1635.4	1466.1	1360.7	1271.3	1248.9	1229.7
12.5°	2820.4	2628.8	2248.7	1900.5	1622.6	1402.2	1210.6	1102.0	1018.9	996.6	983.8
15°	2842.8	2612.8	2162.4	1753.6	1437.4	1191.4	1003.0	910.3	843.3	820.9	814.5
17.5°	2862.0	2596.8	2069.8	1609.8	1252.1	1006.2	843.3	766.6	709.1	686.7	680.4
20°	2887.5	2574.5	1977.2	1472.5	1089.2	859.2	715.5	648.4	603.7	587.7	584.5
22.5°	2909.9	2558.5	1890.9	1335.2	939.1	741.0	619.7	565.4	533.4	517.5	517.5
25°	2967.4	2564.9	1817.5	1207.4	827.3	648.4	546.2	504.7	479.1	469.5	469.5
27.5°	3034.4	2590.5	1760.0	1098.8	731.5	578.1	495.1	460.0	447.2	434.4	437.6
30°	3130.3	2641.6	1721.6	1009.4	661.2	523.8	453.6	428.0	415.2	412.0	412.0
32.5°	3251.6	2724.6	1718.5	951.9	610.1	482.3	424.8	402.5	396.1	392.9	392.9
35°	3395.4	2798.1	1699.3	926.3	578.1	453.6	402.5	386.5	383.3	383.3	383.3
37.5°	3567.9	2919.4	1686.5	891.2	562.2	437.6	386.5	373.7	373.7	373.7	373.7
40°	3746.7	3018.5	1667.3	859.2	555.8	428.0	376.9	360.9	360.9	360.9	360.9
42.5°	3960.7	3162.2	1661.0	843.3	546.2	421.6	364.1	345.0	348.2	348.2	351.4
45°	4219.5	3325.1	1657.8	827.3	543.0	415.2	351.4	329.0	332.2	329.0	329.0
47.5°	4481.4	3513.6	1667.3	817.7	539.8	408.9	341.8	313.0	313.0	309.8	309.8
50°	4756.1	3686.0	1673.7	808.1	533.4	396.1	325.8	300.2	293.9	287.5	290.7
52.5°	5014.8	3845.8	1676.9	792.1	514.3	376.9	313.0	284.3	274.7	265.1	268.3
55°	5273.5	3999.1	1683.3	773.0	488.7	357.7	297.1	268.3	255.5	242.8	242.8
57.5°	5506.7	4133.2	1667.3	725.1	460.0	338.6	281.1	249.1	230.0	217.2	217.2
60°	5666.4	4229.0	1619.4	654.8	421.6	316.2	265.1	230.0	207.6	198.0	198.0
62.5°	5743.1	4245.0	1533.2	539.8	373.7	293.9	245.9	210.8	191.6	185.3	185.3
65°	5669.6	4174.7	1399.0	405.7	322.6	268.3	226.8	194.8	175.7	159.7	159.7
67.5°	5414.1	3976.7	1213.8	306.6	274.7	242.8	207.6	178.9	156.5	143.7	143.7
70°	4899.8	3564.7	939.1	245.9	233.2	210.8	188.5	159.7	140.5	124.6	124.6
72.5°	4225.9	3021.7	661.2	198.0	198.0	178.9	159.7	140.5	121.4	108.6	108.6
75°	3242.1	2235.9	444.0	159.7	162.9	150.1	131.0	115.0	102.2	92.6	92.6
77.5°	1769.6	1105.2	271.5	118.2	121.4	115.0	102.2	92.6	86.2	76.7	76.7
80°	859.2	485.5	156.5	83.0	86.2	83.0	76.7	67.1	67.1	60.7	60.7
82.5°	360.9	182.1	83.0	57.5	57.5	51.1	47.9	47.9	47.9	44.7	44.7
85°	89.4	35.1	35.1	31.9	31.9	31.9	28.7	28.7	28.7	22.4	25.6
87.5°	12.8	12.8	12.8	12.8	12.8	12.8	9.6	3.2	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)