

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: P841955

Luminaire Tested: **ARCH4-250-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841955
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: ARCH4-250-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA 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: 25569 lumens
Efficiency: N/A
Efficacy: 102.5 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): 249.5
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



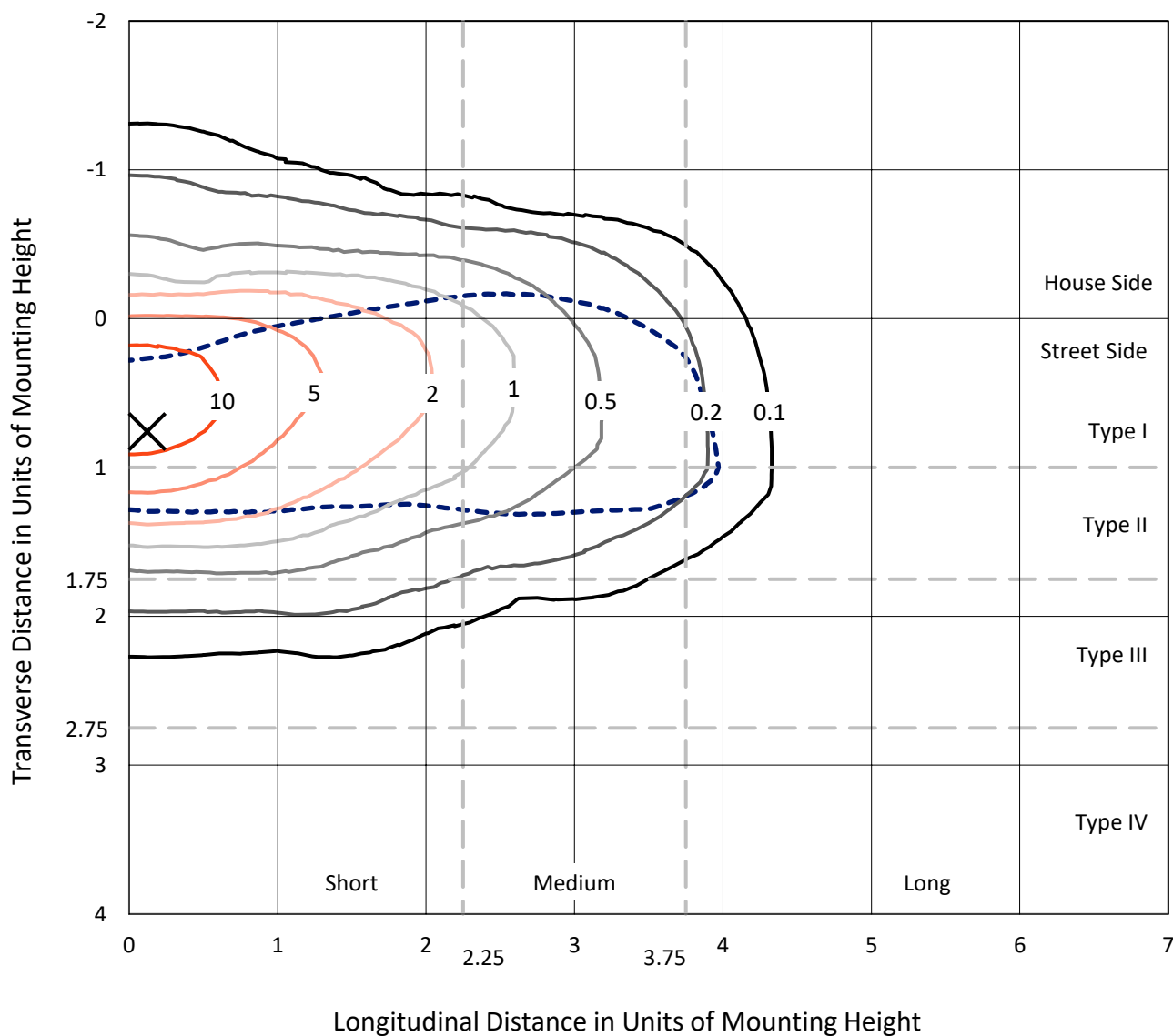
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

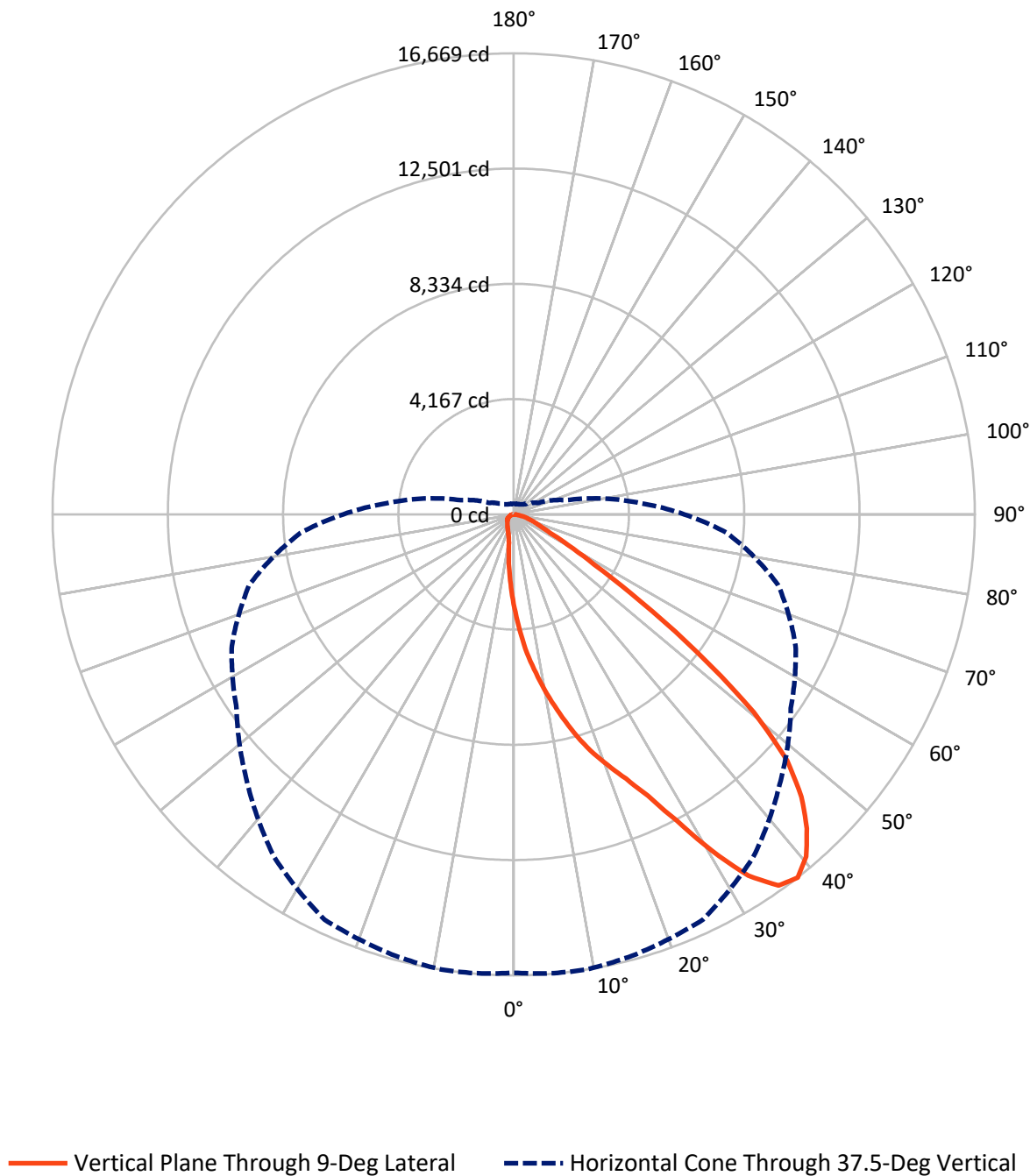


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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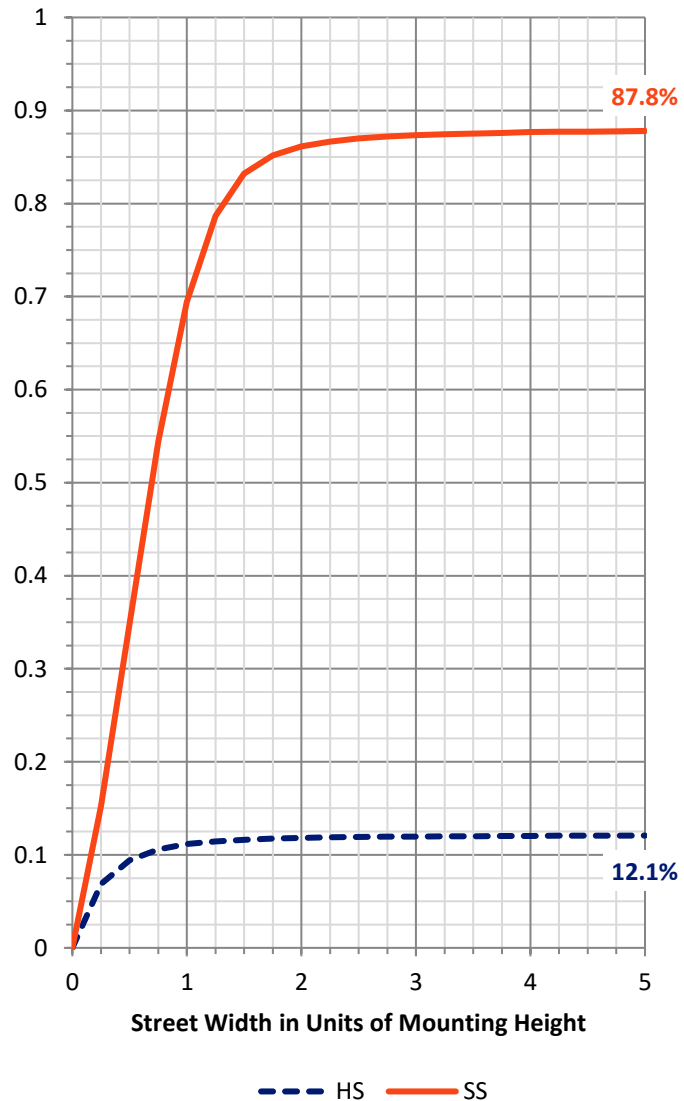
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3109.6	0.0	3109.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22459.3	0.0	22459.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	25569.0	0.0	25569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	1.3
10°-20°	1180.8	4.6
20°-30°	2426.3	9.5
30°-40°	4288.6	16.8
40°-50°	5697.1	22.3
50°-60°	5403.3	21.1
60°-70°	4122.3	16.1
70°-80°	1998.4	7.8
80°-90°	112.5	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°	25569.0	100.0
0°-180°	25569.0	100.0

Coefficient of Utilization



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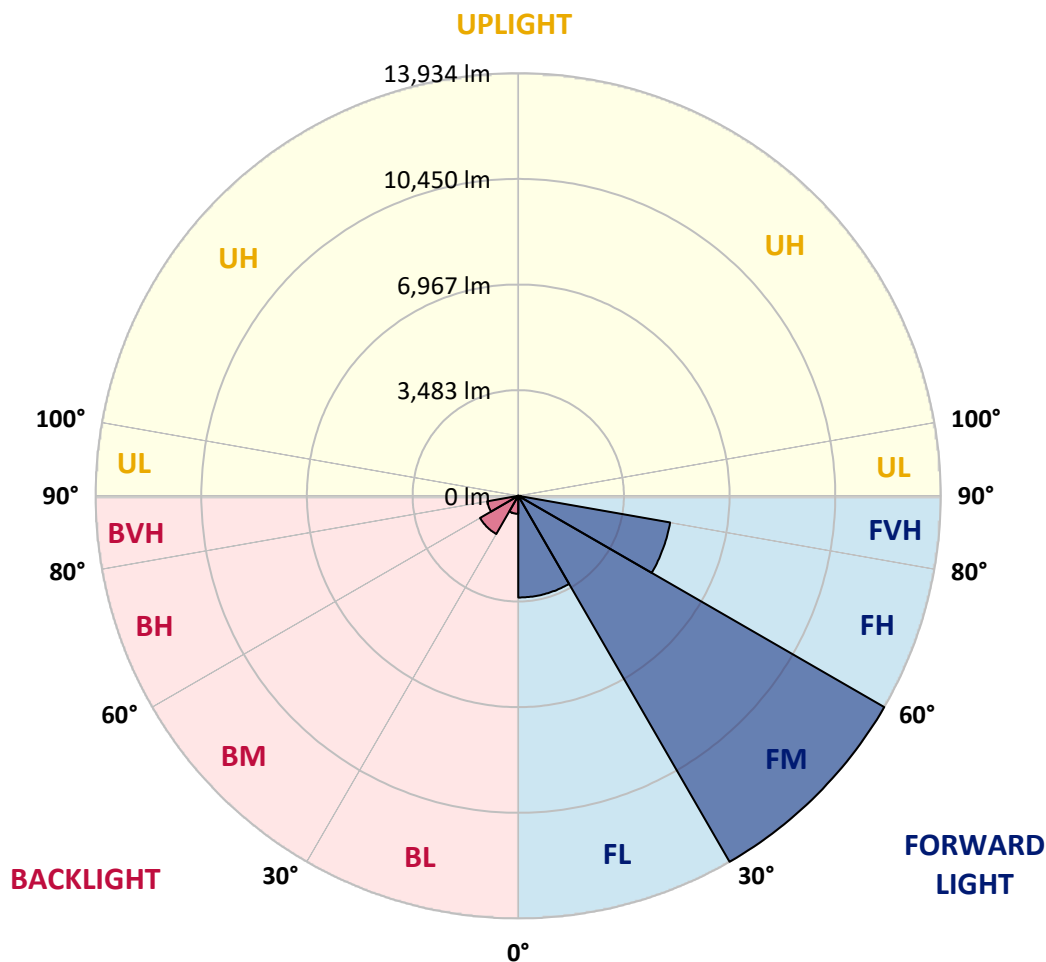
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3353.4	13.1			
FM	(30°-60°)	13933.9	54.5			
FH	(60°-80°)	5083.0	19.9			G3/7500
FVH	(80°-90°)	89.1	0.3			G1/100
BL	(0°-30°)	593.4	2.3	B2/1000		
BM	(30°-60°)	1455.1	5.7	B2/2500		
BH	(60°-80°)	1037.7	4.1	B3/2500		G3/2500
BVH	(80°-90°)	23.4	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°	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9
2.5°	4188.2	4114.7	4198.6	4188.2	4114.7	4067.4	3920.5	3873.3	3700.1	3574.1	3463.9
5°	5048.9	4975.4	5048.9	5027.9	4922.9	4807.5	4566.0	4408.6	4098.9	3826.0	3579.3
7.5°	5762.6	5762.6	5794.1	5799.4	5673.4	5495.0	5195.8	4959.7	4524.0	4104.2	3710.6
10°	6534.1	6539.4	6607.6	6560.4	6392.4	6151.0	5773.1	5474.0	4949.2	4398.1	3836.5
12.5°	7358.1	7363.4	7384.4	7363.4	7163.9	6854.3	6397.7	6004.1	5400.5	4734.0	4009.7
15°	8182.1	8187.4	8213.6	8176.9	7956.4	7594.3	7074.7	6591.9	5878.1	5111.9	4219.6
17.5°	8953.6	8964.1	8985.1	8937.9	8706.9	8276.6	7746.5	7163.9	6387.2	5516.0	4455.8
20°	9646.4	9656.9	9672.6	9609.7	9378.7	8948.4	8376.3	7767.5	6906.8	5930.6	4713.0
22.5°	10344.4	10354.9	10381.2	10297.2	10040.0	9546.7	8985.1	8355.3	7457.9	6387.2	5012.1
25°	11236.6	11247.1	11268.1	11147.4	10795.8	10218.5	9625.4	8979.9	8056.2	6901.5	5379.5
27.5°	12543.5	12533.0	12533.0	12312.5	11709.0	10958.5	10270.9	9614.9	8701.7	7452.6	5783.6
30°	14159.9	14133.7	14118.0	13818.8	12958.1	11793.0	10932.2	10208.0	9321.0	8035.2	6219.2
32.5°	15608.5	15608.5	15577.0	15262.1	14348.9	12916.1	11635.5	10785.3	9919.3	8623.0	6670.6
35°	16464.0	16500.7	16484.9	16248.8	15582.2	14123.2	12585.5	11478.1	10549.1	9237.0	7211.2
37.5°	16579.4	16652.9	16668.6	16526.9	16175.3	15109.9	13640.4	12228.6	11241.9	9898.3	7736.0
40°	16112.3	16269.8	16269.8	16248.8	16122.8	15577.0	14527.3	13099.8	11955.7	10585.8	8266.1
42.5°	15393.3	15556.0	15535.0	15613.7	15582.2	15466.8	15025.9	13913.3	12669.4	11294.4	8748.9
45°	14453.8	14621.8	14579.8	14721.5	14784.5	14910.5	14973.4	14480.1	13372.7	12065.9	9289.5
47.5°	12947.6	13231.0	13294.0	13545.9	13808.3	14201.9	14501.1	14684.8	14028.7	12895.1	9877.3
50°	10722.3	11121.2	11247.1	11777.2	12496.2	13309.7	13792.6	14432.9	14490.6	13745.3	10512.4
52.5°	7678.3	8140.1	8334.3	9205.5	10685.6	12102.6	12973.8	13876.5	14669.0	14558.8	11199.9
55°	4964.9	5358.5	5547.5	6366.2	8334.3	10559.6	12008.1	13157.5	14569.3	15304.1	11987.1
57.5°	3059.8	3285.4	3411.4	4114.7	5925.3	8581.0	10743.3	12496.2	14264.9	15949.6	12805.9
60°	2062.6	2193.8	2256.8	2587.4	4025.5	6413.4	9006.1	11803.5	13866.0	16385.2	13551.1
62.5°	1369.8	1411.8	1474.8	1679.5	2655.6	4503.1	6917.3	10564.9	13566.9	16411.5	14102.2
65°	1060.2	1081.2	1107.4	1196.6	1637.5	3149.0	4865.2	8560.0	13120.8	15855.1	14275.4
67.5°	834.5	855.5	887.0	934.2	1186.1	2136.1	3311.7	6271.7	12207.6	14983.9	13992.0
70°	656.0	671.8	692.8	734.8	923.7	1548.3	2188.5	4167.2	10365.4	14154.7	13099.8
72.5°	519.6	535.3	556.3	598.3	750.5	1133.6	1501.0	2597.9	7993.2	13141.8	11383.6
75°	409.4	419.9	435.6	477.6	603.6	881.7	1018.2	1553.5	5432.0	11289.1	8869.6
77.5°	204.7	251.9	288.7	330.6	440.9	608.8	677.0	860.7	2293.5	5794.1	4230.1
80°	120.7	147.0	157.4	183.7	288.7	367.4	367.4	346.4	724.3	2225.3	1726.7
82.5°	68.2	94.5	99.7	105.0	173.2	209.9	167.9	126.0	147.0	745.3	503.8
85°	21.0	31.5	36.7	42.0	57.7	63.0	57.7	52.5	42.0	73.5	47.2
87.5°	0.0	0.0	0.0	0.0	5.2	10.5	10.5	10.5	15.7	15.7	15.7
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°	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9	3379.9
2.5°	3400.9	3332.7	3201.5	3080.8	2965.3	2881.3	2802.6	2729.1	2676.6	2634.7	2629.4
5°	3448.1	3311.7	3059.8	2823.6	2608.4	2430.0	2277.8	2157.1	2067.8	2004.9	1999.6
7.5°	3511.1	3301.2	2918.1	2566.4	2246.3	1989.1	1768.7	1606.0	1490.5	1443.3	1406.5
10°	3563.6	3290.7	2776.4	2309.3	1889.4	1564.0	1301.6	1138.9	1054.9	1023.4	1007.7
12.5°	3652.8	3301.2	2655.6	2073.1	1579.7	1196.6	997.2	908.0	871.2	845.0	839.7
15°	3784.0	3348.4	2540.2	1842.2	1264.8	965.7	850.2	792.5	755.8	750.5	745.3
17.5°	3915.2	3390.4	2435.2	1606.0	1049.7	839.7	761.0	713.8	687.5	682.3	682.3
20°	4067.4	3442.9	2319.8	1380.3	897.5	755.8	692.8	656.0	624.5	619.3	619.3
22.5°	4245.9	3516.4	2209.5	1180.9	797.7	692.8	640.3	598.3	572.1	566.8	566.8
25°	4487.3	3626.6	2120.3	1033.9	729.5	640.3	593.1	556.3	535.3	524.8	524.8
27.5°	4755.0	3778.8	2057.3	944.7	682.3	598.3	551.1	519.6	498.6	488.1	488.1
30°	5054.1	3946.7	2015.4	908.0	656.0	561.6	519.6	488.1	461.9	456.6	456.6
32.5°	5384.8	4140.9	1989.1	913.2	650.8	535.3	488.1	456.6	435.6	425.1	425.1
35°	5752.1	4356.1	1973.4	944.7	661.3	514.3	461.9	430.4	409.4	398.9	398.9
37.5°	6161.5	4608.0	1973.4	976.2	687.5	509.1	435.6	404.1	388.4	377.9	377.9
40°	6544.6	4875.7	1994.4	1012.9	713.8	509.1	414.6	388.4	367.4	356.9	356.9
42.5°	6843.8	5027.9	2010.1	1049.7	729.5	503.8	393.6	367.4	351.6	341.1	341.1
45°	7184.9	5190.6	1978.6	1065.4	729.5	493.3	377.9	351.6	335.9	325.4	325.4
47.5°	7562.8	5390.0	1973.4	1075.9	713.8	472.3	362.1	335.9	325.4	314.9	314.9
50°	7945.9	5610.4	1983.9	1070.7	692.8	440.9	341.1	325.4	309.7	299.2	299.2
52.5°	8381.6	5841.4	2004.9	1060.2	645.5	404.1	325.4	309.7	293.9	283.4	278.2
55°	8864.4	6093.3	2046.8	1039.2	582.6	367.4	309.7	293.9	272.9	262.4	257.2
57.5°	9420.7	6402.9	2094.1	997.2	514.3	335.9	293.9	272.9	241.4	225.7	220.4
60°	9950.8	6754.6	2146.6	897.5	446.1	304.4	278.2	246.7	215.2	204.7	199.4
62.5°	10449.4	7101.0	2172.8	719.0	377.9	278.2	262.4	225.7	194.2	183.7	178.4
65°	10769.5	7478.8	2115.1	488.1	309.7	257.2	241.4	209.9	178.4	162.7	162.7
67.5°	10790.5	7657.3	1915.6	320.1	251.9	230.9	220.4	188.9	157.4	147.0	141.7
70°	10260.4	7389.6	1464.3	251.9	209.9	199.4	199.4	167.9	136.5	126.0	120.7
72.5°	9042.8	6544.6	934.2	204.7	178.4	167.9	167.9	141.7	120.7	105.0	99.7
75°	7137.7	5048.9	498.6	167.9	147.0	141.7	131.2	115.5	99.7	89.2	84.0
77.5°	3280.2	2225.3	230.9	120.7	110.2	110.2	99.7	84.0	78.7	68.2	68.2
80°	1296.3	755.8	115.5	78.7	73.5	73.5	73.5	57.7	57.7	47.2	42.0
82.5°	356.9	157.4	57.7	47.2	47.2	47.2	42.0	36.7	36.7	31.5	31.5
85°	36.7	26.2	26.2	26.2	26.2	21.0	21.0	15.7	10.5	10.5	10.5
87.5°	15.7	15.7	15.7	15.7	15.7	10.5	5.2	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)