

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: P842092

Luminaire Tested: **ARCH4-270-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

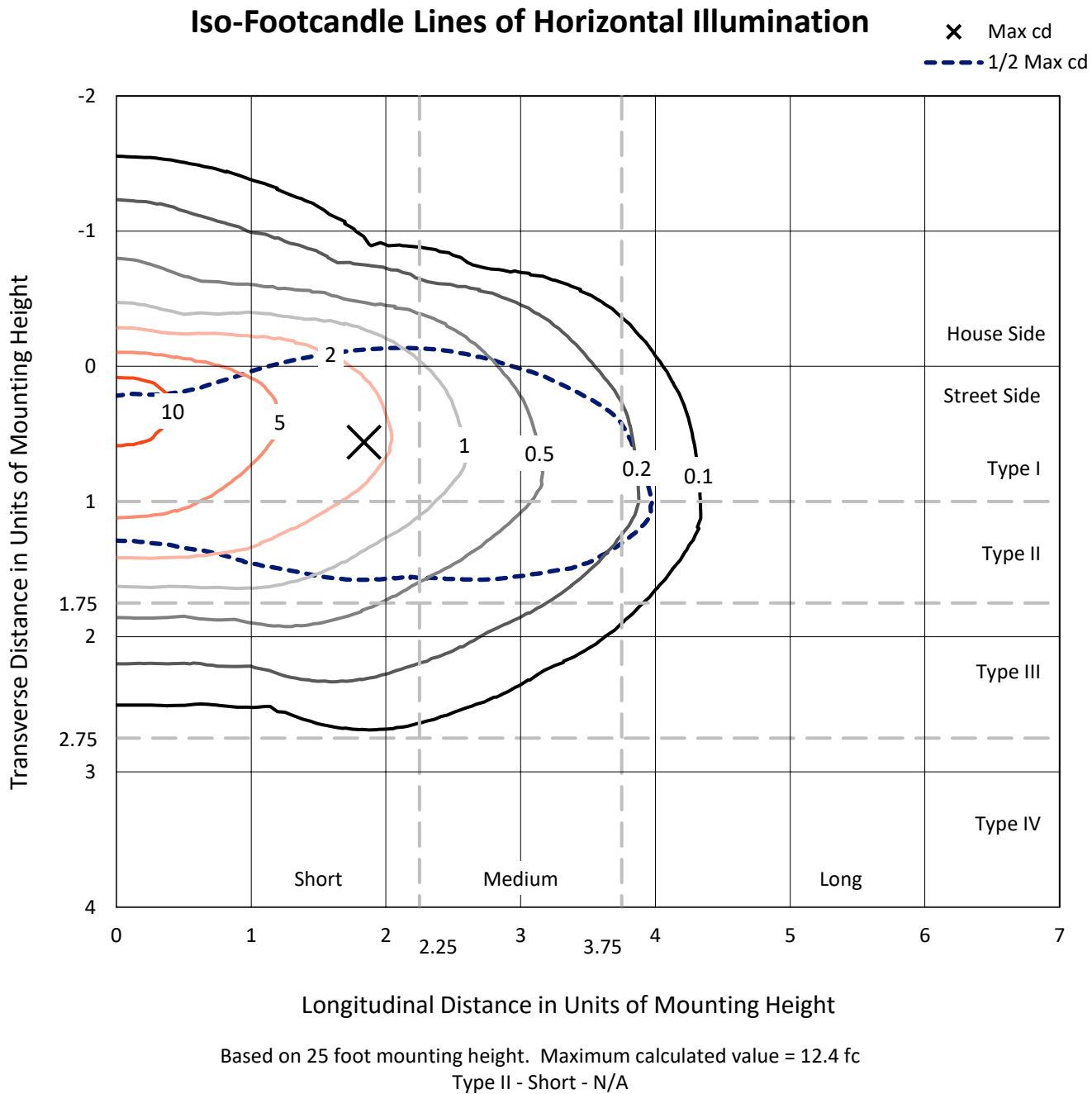
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25939 lumens
Efficiency: N/A
Efficacy: 96.4 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

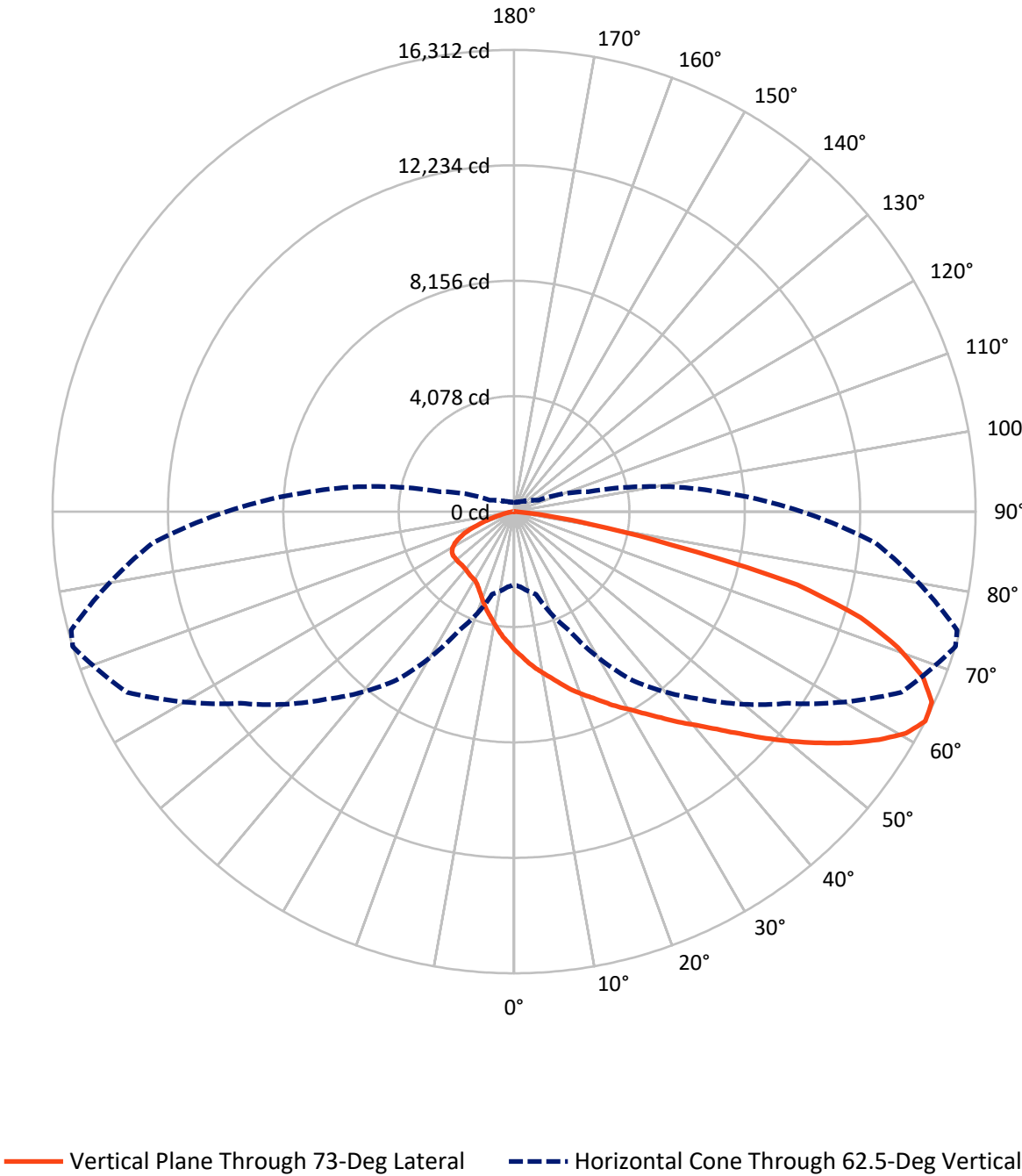


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Luminous Intensity Polar Plot



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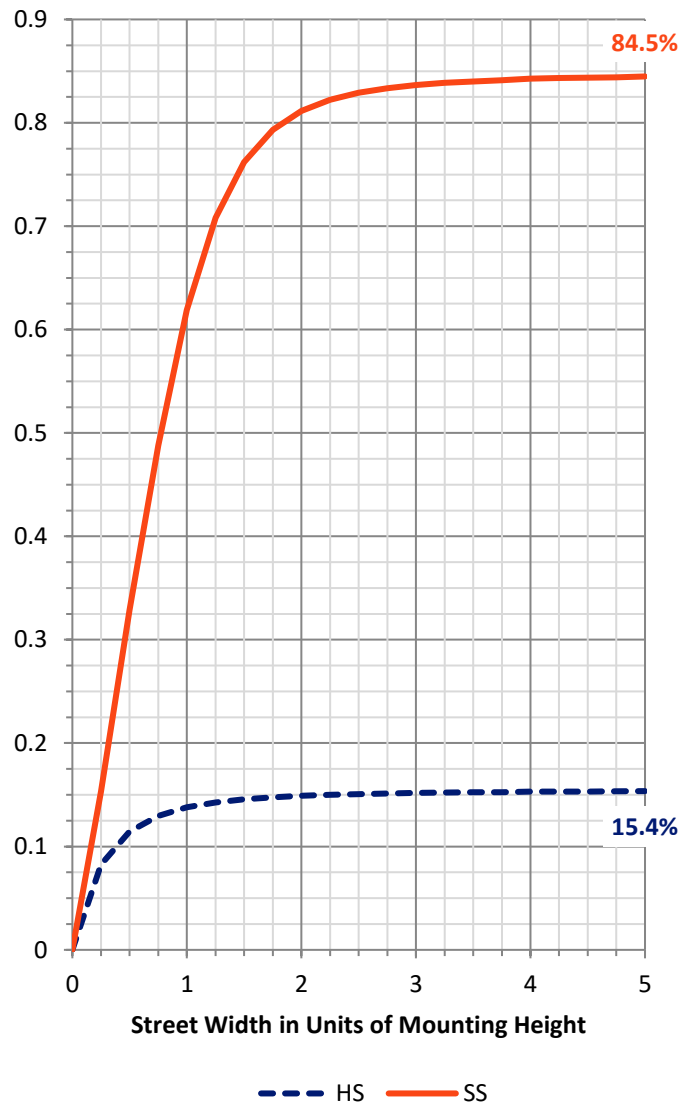
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4020.9	0.0	4020.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	21918.1	0.0	21918.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	25939.0	0.0	25939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.5	1.8
10°-20°	1431.8	5.5
20°-30°	2383.3	9.2
30°-40°	3596.0	13.9
40°-50°	5026.2	19.4
50°-60°	5551.8	21.4
60°-70°	4836.3	18.6
70°-80°	2443.0	9.4
80°-90°	196.1	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°	25939.0	100.0
0°-180°	25939.0	100.0

Coefficient of Utilization



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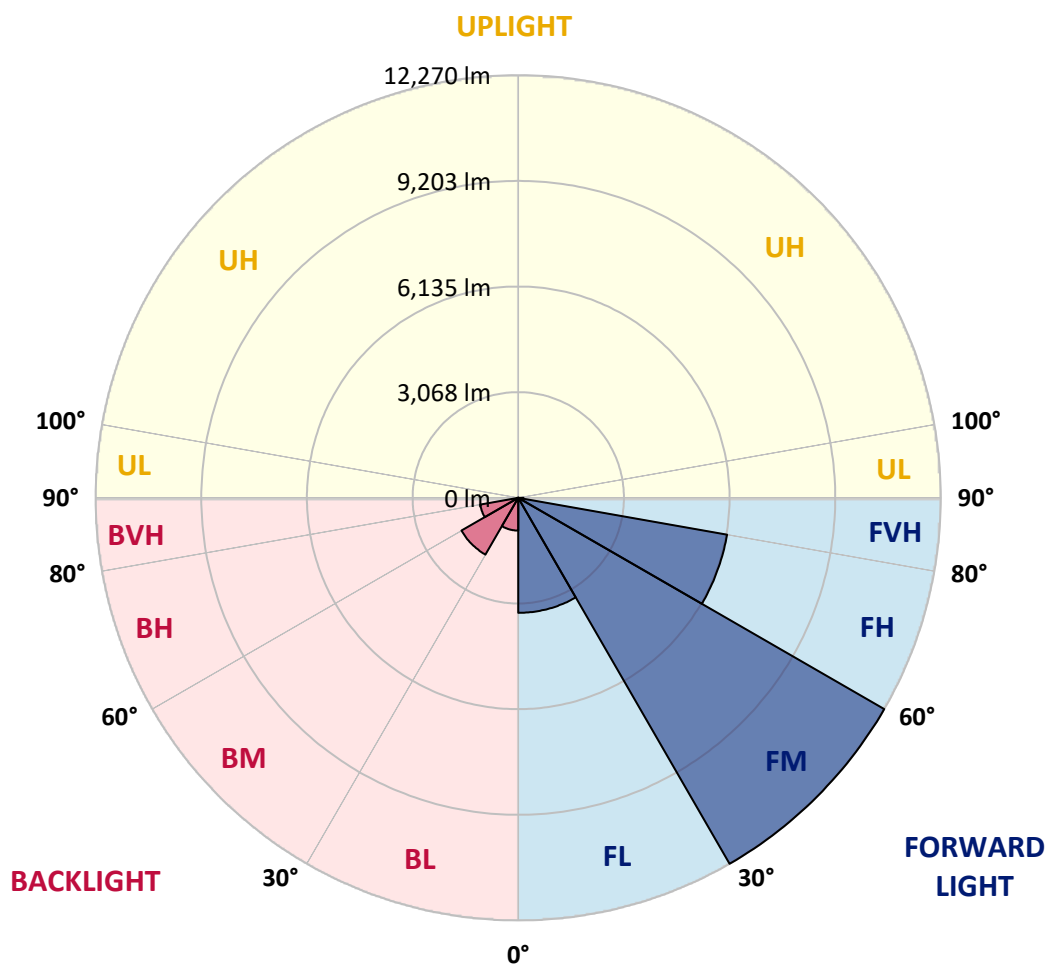
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3339.1	12.9			
FM	(30°-60°)	12270.1	47.3			
FH	(60°-80°)	6157.1	23.7			G3/7500
FVH	(80°-90°)	151.8	0.6			G2/225
BL	(0°-30°)	950.4	3.7	B2/1000		
BM	(30°-60°)	1903.9	7.3	B2/2500		
BH	(60°-80°)	1122.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	44.3	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6
2.5°	5589.8	5652.0	5618.1	5640.7	5527.7	5454.2	5369.4	5205.5	5115.1	5103.8	4996.4
5°	6409.4	6477.2	6420.7	6403.7	6205.9	6036.4	5844.2	5555.9	5363.8	5329.9	5092.5
7.5°	7228.9	7291.1	7223.3	7172.4	6906.8	6607.2	6324.6	5900.7	5601.2	5544.6	5171.6
10°	7805.4	7862.0	7811.1	7760.2	7483.3	7178.1	6776.8	6222.9	5815.9	5725.5	5222.5
12.5°	8240.6	8274.6	8251.9	8206.7	7946.7	7618.9	7234.6	6584.6	6059.0	5945.9	5301.6
15°	8596.7	8653.2	8625.0	8591.1	8342.4	8014.6	7647.2	6963.3	6341.6	6200.3	5420.3
17.5°	8834.1	8873.7	8879.3	8879.3	8658.9	8336.7	7980.7	7308.1	6624.2	6443.3	5533.3
20°	8941.5	8986.7	9015.0	9060.2	8879.3	8602.4	8240.6	7602.0	6889.8	6686.3	5640.7
22.5°	8992.4	9031.9	9105.4	9207.1	9060.2	8828.5	8495.0	7873.3	7155.5	6940.7	5765.1
25°	9031.9	9082.8	9190.2	9382.4	9280.6	9082.8	8794.5	8184.1	7472.0	7251.5	5945.9
27.5°	9139.3	9201.5	9303.2	9535.0	9410.6	9314.5	9111.1	8517.6	7805.4	7579.4	6166.4
30°	9512.3	9563.2	9557.6	9704.5	9551.9	9523.7	9382.4	8839.8	8127.6	7901.5	6426.3
32.5°	10190.6	10241.5	10117.1	10060.6	9727.1	9732.8	9676.3	9184.5	8511.9	8280.2	6725.9
35°	10919.7	10976.2	10812.3	10716.2	10156.7	9992.8	10021.0	9614.1	8941.5	8709.8	7098.9
37.5°	11569.7	11637.5	11496.2	11354.9	10789.7	10411.0	10405.4	10094.5	9433.2	9195.8	7511.5
40°	11925.8	12004.9	12089.7	12010.5	11417.1	10998.8	10818.0	10586.2	9919.3	9676.3	7958.0
42.5°	12095.3	12315.7	12468.4	12417.5	11931.4	11507.5	11292.7	11100.6	10512.8	10275.4	8489.3
45°	11620.6	11626.2	11948.4	12225.3	12134.9	11852.3	11812.7	11677.1	11191.0	10964.9	9088.4
47.5°	11027.1	10981.9	11208.0	11699.7	11954.0	12027.5	12259.2	12315.7	11965.3	11739.2	9698.9
50°	9602.8	9631.0	10365.8	11072.3	11569.7	12044.5	12575.7	12971.4	12762.3	12547.5	10343.2
52.5°	7811.1	7878.9	8721.1	10275.4	11061.0	11874.9	12762.3	13627.0	13576.1	13372.7	10987.5
55°	6262.4	6369.8	7262.8	8947.1	10411.0	11496.2	12841.4	14226.1	14418.3	14231.8	11620.6
57.5°	4787.3	4900.3	5652.0	7381.5	9580.2	10880.1	12784.9	14751.8	15203.9	15085.2	12202.7
60°	3606.0	3719.0	4199.5	5985.5	8540.2	10190.6	12502.3	15096.5	15910.4	15786.1	12626.6
62.5°	2583.0	2673.4	3029.5	4657.3	7274.1	9371.0	11807.1	15102.2	16311.7	16210.0	12830.1
65°	1859.5	1859.5	2147.8	3323.4	6087.2	8387.6	10755.8	14407.0	16226.9	16198.7	12688.8
67.5°	1339.5	1350.8	1582.6	2323.0	4855.1	7195.0	9393.7	13169.2	15571.3	15712.6	12180.1
70°	949.5	977.8	1085.2	1622.1	3668.2	5680.3	7935.4	11547.1	14390.0	14638.7	11196.6
72.5°	734.8	751.7	825.2	1130.4	2679.1	4222.1	6324.6	9738.4	12813.1	13095.7	9857.1
75°	565.2	582.2	638.7	830.8	1921.7	2961.7	4493.4	7556.7	10331.9	10834.9	7918.5
77.5°	412.6	435.2	474.8	604.8	1119.1	1882.1	2724.3	4250.3	5702.9	5940.3	4148.6
80°	192.2	220.4	276.9	390.0	604.8	887.4	966.5	1639.1	2741.2	2865.6	2249.5
82.5°	107.4	135.6	158.3	237.4	305.2	316.5	327.8	412.6	1034.3	1141.7	943.9
85°	50.9	67.8	73.5	101.7	101.7	90.4	107.4	79.1	169.6	203.5	197.8
87.5°	0.0	5.7	11.3	28.3	22.6	17.0	17.0	17.0	17.0	22.6	17.0
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°	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6	4911.6
2.5°	4945.5	4872.0	4702.5	4555.5	4459.4	4374.7	4261.6	4210.8	4120.3	4137.3	4086.4
5°	4973.8	4838.1	4538.6	4261.6	4058.1	3877.3	3679.5	3566.4	3442.1	3430.8	3391.2
7.5°	4990.7	4781.6	4352.1	3962.1	3651.2	3374.3	3108.6	2961.7	2809.1	2775.1	2741.2
10°	4973.8	4696.8	4159.9	3651.2	3238.6	2893.8	2594.3	2407.8	2249.5	2209.9	2176.0
12.5°	4990.7	4651.6	3979.0	3363.0	2871.2	2481.2	2142.1	1949.9	1803.0	1763.4	1740.8
15°	5030.3	4623.4	3826.4	3103.0	2543.4	2108.2	1774.7	1610.8	1492.1	1452.6	1441.3
17.5°	5064.2	4595.1	3662.5	2848.6	2215.6	1780.4	1492.1	1356.5	1254.7	1215.2	1203.9
20°	5109.4	4555.5	3498.6	2605.6	1927.3	1520.4	1266.1	1147.4	1068.2	1040.0	1034.3
22.5°	5149.0	4527.3	3346.0	2362.5	1661.7	1311.3	1096.5	1000.4	943.9	915.6	915.6
25°	5250.7	4538.6	3216.0	2136.5	1463.9	1147.4	966.5	893.0	847.8	830.8	830.8
27.5°	5369.4	4583.8	3114.3	1944.3	1294.3	1023.0	876.1	813.9	791.3	768.7	774.3
30°	5539.0	4674.2	3046.4	1786.0	1170.0	926.9	802.6	757.4	734.8	729.1	729.1
32.5°	5753.8	4821.2	3040.8	1684.3	1079.5	853.5	751.7	712.2	700.9	695.2	695.2
35°	6008.1	4951.2	3006.9	1639.1	1023.0	802.6	712.2	683.9	678.2	678.2	678.2
37.5°	6313.3	5165.9	2984.3	1576.9	994.8	774.3	683.9	661.3	661.3	661.3	661.3
40°	6629.8	5341.2	2950.4	1520.4	983.5	757.4	666.9	638.7	638.7	638.7	638.7
42.5°	7008.5	5595.5	2939.0	1492.1	966.5	746.1	644.3	610.4	616.1	616.1	621.7
45°	7466.3	5883.8	2933.4	1463.9	960.8	734.8	621.7	582.2	587.8	582.2	582.2
47.5°	7929.8	6217.2	2950.4	1446.9	955.2	723.5	604.8	553.9	553.9	548.2	548.2
50°	8415.9	6522.4	2961.7	1430.0	943.9	700.9	576.5	531.3	520.0	508.7	514.3
52.5°	8873.7	6805.0	2967.3	1401.7	910.0	666.9	553.9	503.0	486.1	469.1	474.8
55°	9331.5	7076.3	2978.6	1367.8	864.8	633.0	525.6	474.8	452.2	429.6	429.6
57.5°	9744.1	7313.7	2950.4	1283.0	813.9	599.1	497.4	440.9	406.9	384.3	384.3
60°	10026.7	7483.3	2865.6	1158.7	746.1	559.5	469.1	406.9	367.4	350.4	350.4
62.5°	10162.3	7511.5	2713.0	955.2	661.3	520.0	435.2	373.0	339.1	327.8	327.8
65°	10032.3	7387.2	2475.6	717.8	570.9	474.8	401.3	344.8	310.9	282.6	282.6
67.5°	9580.2	7036.8	2147.8	542.6	486.1	429.6	367.4	316.5	276.9	254.3	254.3
70°	8670.2	6307.7	1661.7	435.2	412.6	373.0	333.5	282.6	248.7	220.4	220.4
72.5°	7477.6	5346.8	1170.0	350.4	350.4	316.5	282.6	248.7	214.8	192.2	192.2
75°	5736.8	3956.4	785.6	282.6	288.3	265.6	231.7	203.5	180.9	163.9	163.9
77.5°	3131.2	1955.6	480.4	209.1	214.8	203.5	180.9	163.9	152.6	135.6	135.6
80°	1520.4	859.1	276.9	147.0	152.6	147.0	135.6	118.7	118.7	107.4	107.4
82.5°	638.7	322.2	147.0	101.7	101.7	90.4	84.8	84.8	84.8	79.1	79.1
85°	158.3	62.2	62.2	56.5	56.5	56.5	50.9	50.9	50.9	39.6	45.2
87.5°	22.6	22.6	22.6	22.6	22.6	22.6	17.0	5.7	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)