

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: P841655

Luminaire Tested: **ARCH4-210-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19600 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213.1
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



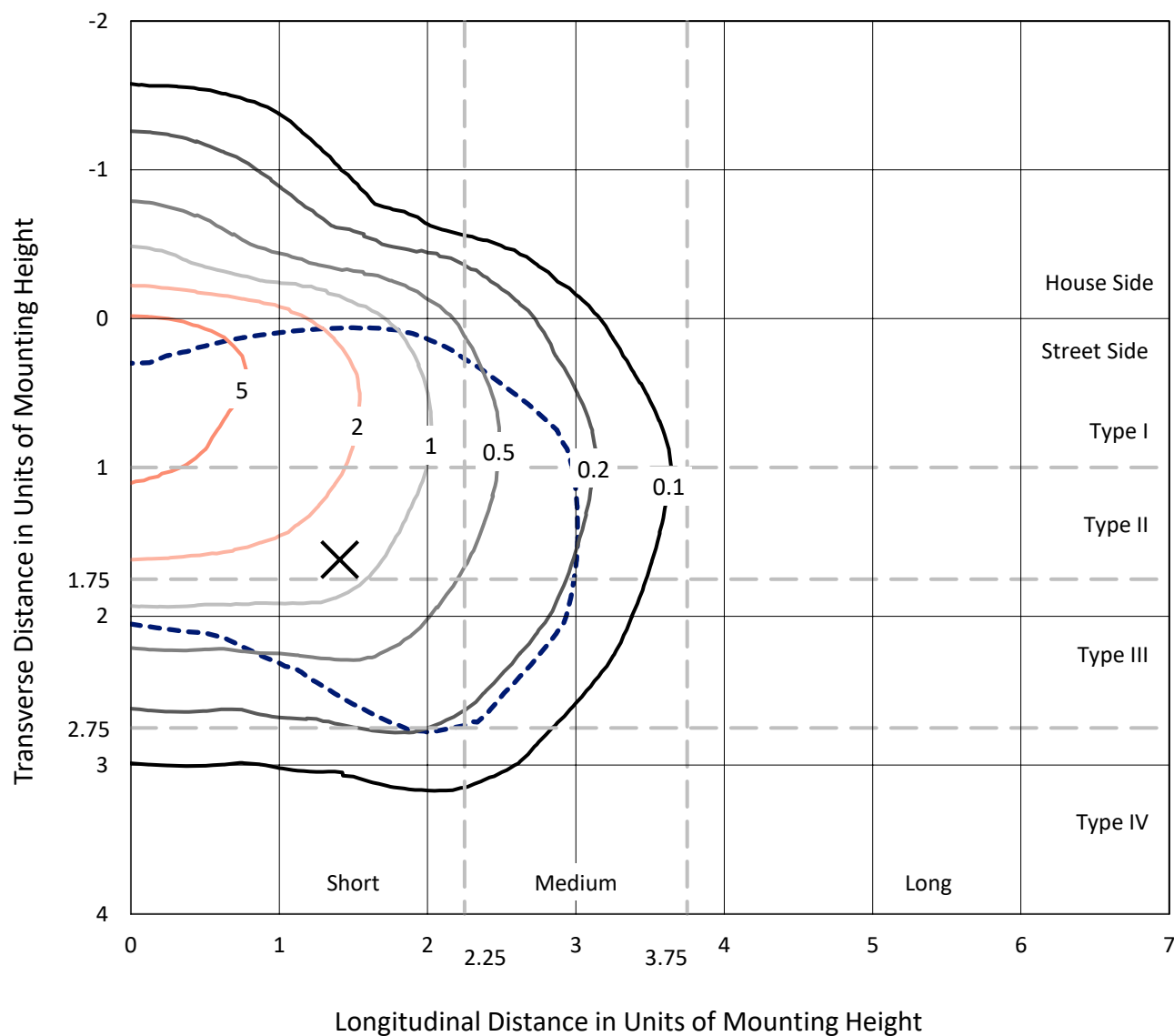
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

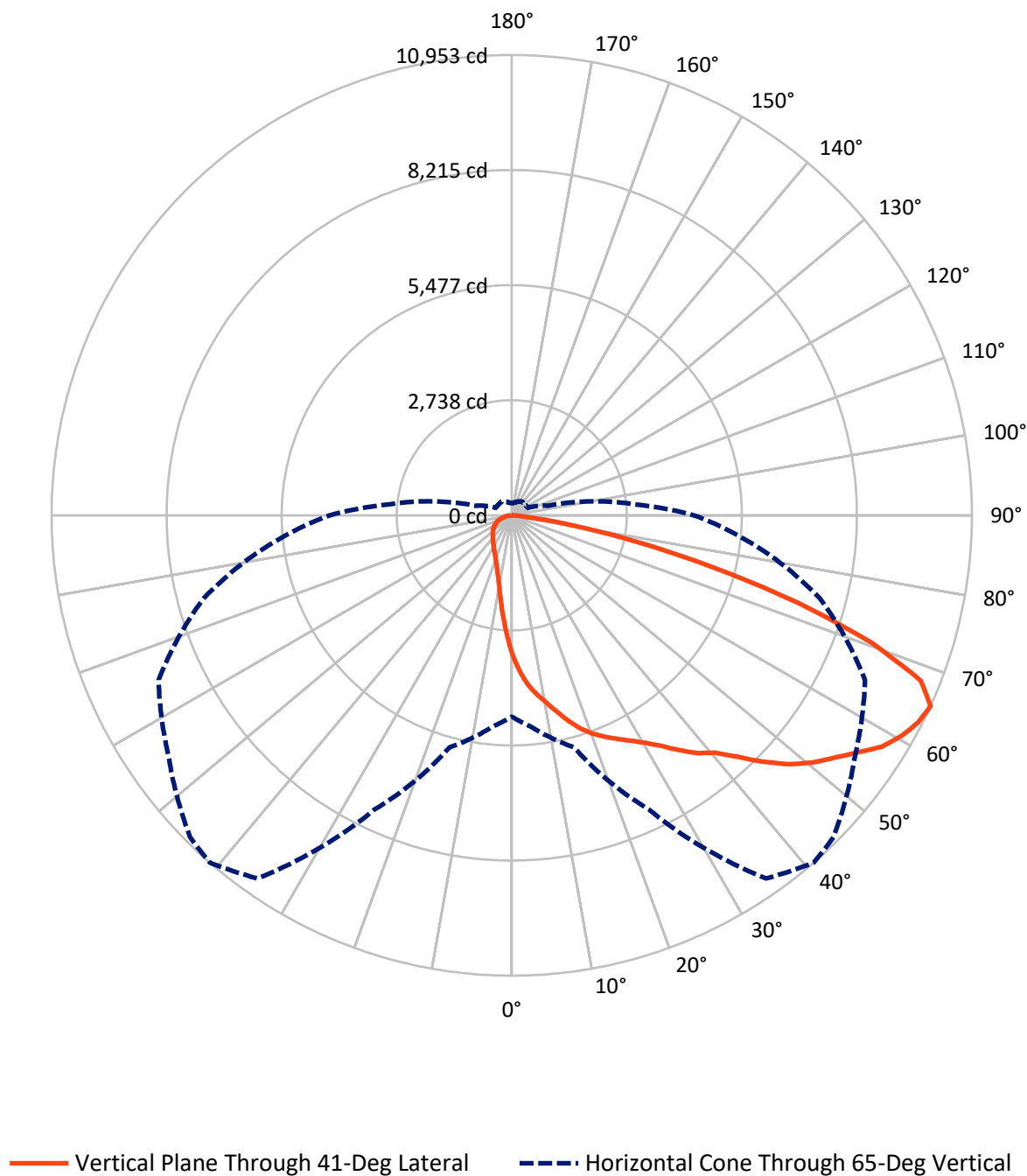


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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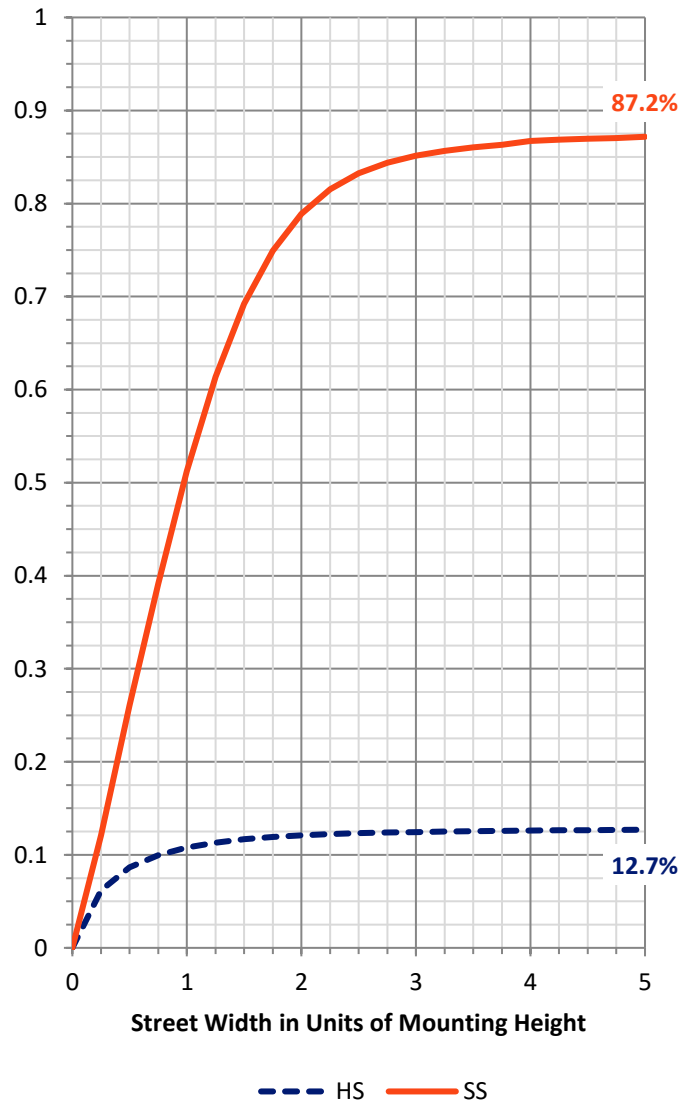
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2516.3	0.0	2516.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17083.6	0.0	17083.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	19600.0	0.0	19600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	1.6
10°-20°	933.1	4.8
20°-30°	1605.2	8.2
30°-40°	2434.6	12.4
40°-50°	3566.7	18.2
50°-60°	4504.0	23.0
60°-70°	4223.3	21.5
70°-80°	1882.3	9.6
80°-90°	139.4	0.7
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°	19600.0	100.0
0°-180°	19600.0	100.0

Coefficient of Utilization



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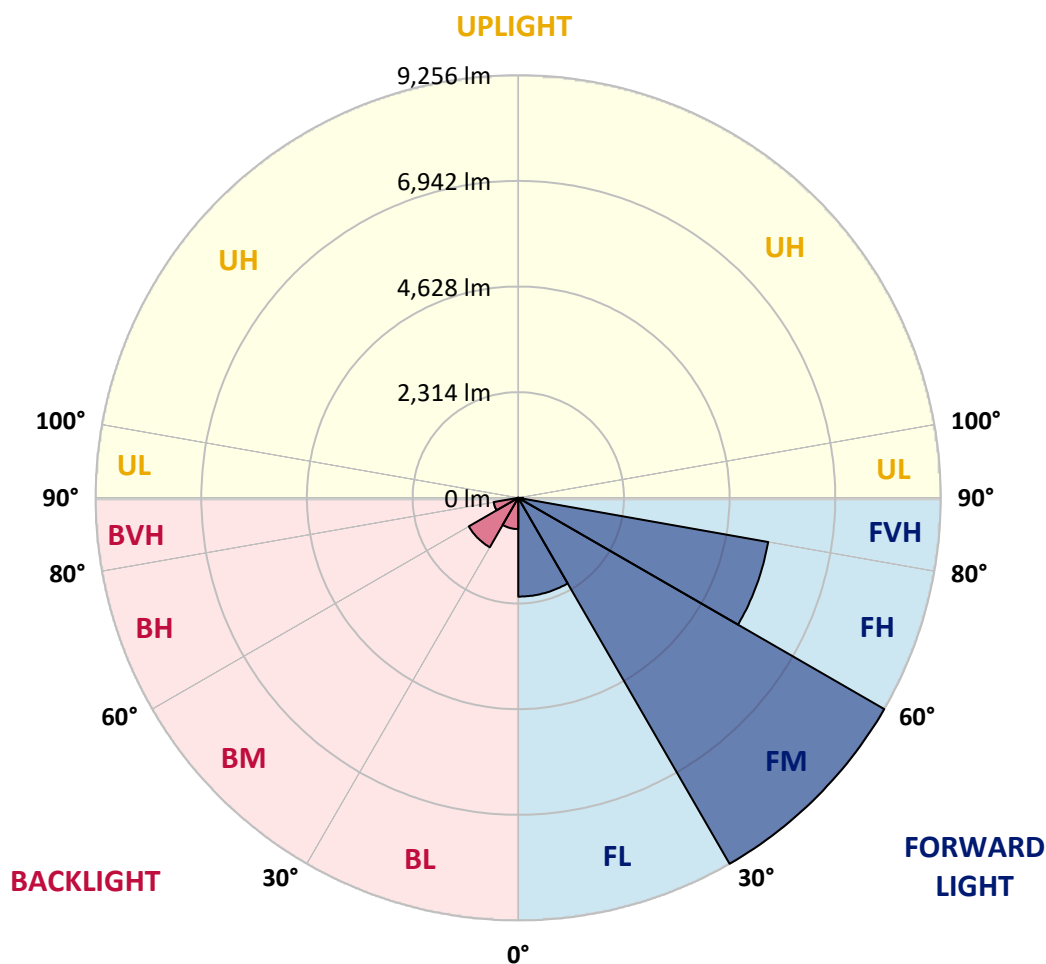
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2164.6	11.0			
FM	(30°-60°)	9255.9	47.2			
FH	(60°-80°)	5559.1	28.4			G3/7500
FVH	(80°-90°)	104.1	0.5			G2/225
BL	(0°-30°)	684.9	3.5	B2/1000		
BM	(30°-60°)	1249.5	6.4	B2/2500		
BH	(60°-80°)	546.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	35.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7
2.5°	3852.3	3839.9	3831.6	3786.1	3786.1	3724.1	3728.3	3670.4	3600.1	3488.5	3368.7
5°	4216.0	4199.5	4178.8	4133.3	4116.8	4054.8	4046.5	3963.9	3844.0	3649.7	3434.8
7.5°	4534.3	4517.7	4488.8	4422.7	4377.2	4302.8	4282.1	4174.7	4042.4	3802.7	3500.9
10°	4823.6	4811.2	4774.0	4691.3	4629.3	4538.4	4501.2	4356.5	4191.2	3926.7	3554.7
12.5°	5117.1	5100.5	5050.9	4980.7	4906.3	4798.8	4753.3	4567.3	4356.5	4063.1	3633.2
15°	5389.9	5365.1	5327.9	5253.5	5187.3	5084.0	5034.4	4815.3	4559.1	4216.0	3736.5
17.5°	5567.6	5546.9	5513.9	5472.5	5418.8	5340.3	5290.7	5075.7	4761.6	4364.8	3844.0
20°	5675.1	5666.8	5654.4	5629.6	5604.8	5551.1	5513.9	5311.3	4980.7	4509.5	3947.3
22.5°	5757.7	5749.5	5745.3	5745.3	5749.5	5728.8	5704.0	5530.4	5191.5	4662.4	4042.4
25°	5885.9	5881.7	5873.5	5865.2	5894.1	5898.3	5890.0	5770.1	5456.0	4864.9	4162.3
27.5°	6063.6	6051.2	6034.7	6026.4	6055.3	6076.0	6092.5	6009.9	5737.1	5071.6	4298.7
30°	6336.4	6299.2	6257.9	6228.9	6249.6	6282.7	6319.9	6270.3	6026.4	5327.9	4439.2
32.5°	6658.8	6613.3	6518.3	6464.5	6518.3	6543.1	6572.0	6547.2	6328.1	5604.8	4579.7
35°	7051.5	6997.7	6898.5	6820.0	6915.1	6861.3	6848.9	6824.1	6613.3	5877.6	4736.8
37.5°	7704.5	7626.0	7468.9	7295.3	7295.3	7179.6	7134.1	7059.7	6869.6	6121.5	4889.7
40°	8460.9	8357.6	8155.1	7898.8	7663.2	7423.5	7394.5	7340.8	7171.3	6402.5	5063.3
42.5°	9291.7	9093.3	8812.3	8502.3	8122.0	7849.2	7783.1	7630.1	7464.8	6687.7	5236.9
45°	10213.5	9800.1	9390.9	9233.9	8605.6	8357.6	8233.6	7956.7	7770.7	6985.3	5418.8
47.5°	10362.3	10039.9	9767.1	9742.3	9056.1	8849.5	8708.9	8312.1	8101.3	7303.6	5608.9
50°	10279.6	10085.3	10114.3	10015.1	9386.8	9250.4	9142.9	8692.4	8427.9	7609.5	5782.5
52.5°	9932.4	10039.9	10205.2	10023.3	9700.9	9589.3	9535.6	9101.6	8733.7	7890.5	5939.6
55°	9519.1	9593.5	9948.9	10172.1	10064.7	9965.5	9915.9	9576.9	9035.5	8126.1	6084.3
57.5°	8915.6	8882.5	9275.2	10147.3	10444.9	10387.1	10333.3	10044.0	9316.5	8295.6	6175.2
60°	8010.4	7940.1	8436.1	9651.3	10568.9	10659.9	10635.1	10354.0	9531.5	8291.5	6138.0
62.5°	6443.9	6617.5	7303.6	8841.2	10622.7	10854.1	10808.7	10378.8	9601.7	8051.7	5902.4
65°	4790.5	5038.5	5712.3	7725.2	10548.3	10953.3	10829.3	9973.7	9275.2	7576.4	5385.7
67.5°	3451.3	3670.4	4162.3	6357.1	9833.2	10498.7	10354.0	9312.4	8522.9	6902.7	4670.7
70°	2360.1	2517.2	2852.0	4629.3	8394.8	9076.8	8985.9	8324.5	7336.7	6100.8	3794.4
72.5°	1665.7	1731.9	1946.8	3054.5	6377.7	7121.7	7014.3	6848.9	5894.1	5071.6	2951.2
75°	1248.3	1289.6	1405.3	1975.7	4302.8	4935.2	4836.0	4931.1	4402.0	3839.9	2149.3
77.5°	471.2	512.5	797.7	1260.7	2546.1	3029.7	2930.5	2988.4	2446.9	1938.5	1070.5
80°	128.1	136.4	264.5	599.3	1157.3	1508.7	1372.3	1178.0	909.3	892.8	566.3
82.5°	53.7	62.0	119.9	322.4	413.3	413.3	347.2	429.9	347.2	417.5	272.8
85°	20.7	24.8	28.9	82.7	53.7	57.9	62.0	82.7	70.3	86.8	62.0
87.5°	0.0	0.0	0.0	4.1	4.1	8.3	4.1	8.3	12.4	12.4	12.4
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°	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7	3339.7
2.5°	3319.1	3273.6	3207.5	3100.0	2988.4	2926.4	2847.9	2835.5	2752.8	2744.5	2711.5
5°	3339.7	3244.7	3075.2	2868.5	2666.0	2508.9	2393.2	2331.2	2211.3	2211.3	2178.3
7.5°	3356.3	3207.5	2934.7	2628.8	2351.9	2141.1	1984.0	1917.9	1810.4	1802.1	1777.3
10°	3360.4	3162.0	2781.7	2384.9	2046.0	1831.1	1678.1	1603.7	1508.7	1500.4	1483.9
12.5°	3393.5	3137.2	2645.3	2174.1	1826.9	1595.5	1446.7	1384.7	1310.3	1302.0	1285.5
15°	3447.2	3137.2	2529.6	1996.4	1632.7	1417.7	1289.6	1231.7	1178.0	1169.7	1161.5
17.5°	3500.9	3128.9	2413.9	1831.1	1471.5	1277.2	1165.6	1120.1	1078.8	1074.7	1066.4
20°	3550.5	3124.8	2298.1	1690.5	1347.5	1161.5	1074.7	1033.3	1000.3	1000.3	996.1
22.5°	3600.1	3116.5	2186.5	1558.3	1240.0	1074.7	1000.3	954.8	930.0	930.0	925.9
25°	3674.5	3116.5	2083.2	1446.7	1153.2	1008.5	934.1	901.1	880.4	876.3	876.3
27.5°	3761.3	3141.3	1992.3	1347.5	1078.8	942.4	884.5	851.5	826.7	818.4	822.5
30°	3856.4	3162.0	1909.6	1260.7	1008.5	892.8	830.8	797.7	772.9	764.7	768.8
32.5°	3951.5	3186.8	1835.2	1182.1	938.3	847.3	785.3	748.1	723.3	719.2	719.2
35°	4054.8	3211.6	1760.8	1116.0	880.4	801.9	744.0	702.7	686.1	677.9	682.0
37.5°	4158.1	3252.9	1690.5	1054.0	839.1	760.5	706.8	665.5	653.1	648.9	648.9
40°	4282.1	3314.9	1661.6	1012.7	801.9	723.3	677.9	636.5	624.1	624.1	624.1
42.5°	4385.5	3364.5	1636.8	967.2	772.9	690.3	648.9	615.9	607.6	603.5	607.6
45°	4488.8	3410.0	1603.7	925.9	735.7	657.2	624.1	591.1	582.8	582.8	582.8
47.5°	4592.1	3434.8	1558.3	884.5	702.7	628.3	599.3	570.4	562.1	562.1	562.1
50°	4674.8	3455.5	1492.1	839.1	665.5	603.5	574.5	545.6	537.3	537.3	537.3
52.5°	4757.5	3459.6	1421.9	785.3	628.3	574.5	549.7	520.8	512.5	508.4	508.4
55°	4831.9	3455.5	1339.2	723.3	586.9	541.5	520.8	496.0	479.5	462.9	471.2
57.5°	4885.6	3451.3	1244.1	661.3	545.6	508.4	500.1	467.1	434.0	392.7	400.9
60°	4864.9	3405.9	1140.8	582.8	500.1	475.3	475.3	429.9	372.0	351.3	355.5
62.5°	4732.7	3277.7	1033.3	500.1	454.7	442.3	438.1	388.5	343.1	322.4	326.5
65°	4335.9	2955.3	876.3	425.7	409.2	405.1	405.1	359.6	318.3	293.5	297.6
67.5°	3732.4	2480.0	715.1	359.6	363.7	372.0	372.0	330.7	289.3	264.5	268.7
70°	2992.5	1938.5	570.4	310.0	314.1	326.5	334.8	297.6	260.4	235.6	235.6
72.5°	2252.7	1471.5	458.8	260.4	281.1	281.1	293.5	264.5	227.3	202.5	206.7
75°	1632.7	1054.0	363.7	219.1	243.9	239.7	239.7	223.2	194.3	177.7	177.7
77.5°	772.9	553.9	289.3	157.1	190.1	186.0	190.1	177.7	165.3	148.8	152.9
80°	380.3	272.8	186.0	111.6	132.3	136.4	148.8	140.5	136.4	124.0	124.0
82.5°	181.9	107.5	86.8	78.5	90.9	95.1	103.3	103.3	107.5	99.2	99.2
85°	49.6	28.9	37.2	49.6	57.9	62.0	70.3	74.4	74.4	70.3	74.4
87.5°	12.4	12.4	16.5	24.8	28.9	33.1	37.2	37.2	16.5	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)