

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: P841694

Luminaire Tested: **ARCH4-210-750-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841694
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: ARCH4-210-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA 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: 23660 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

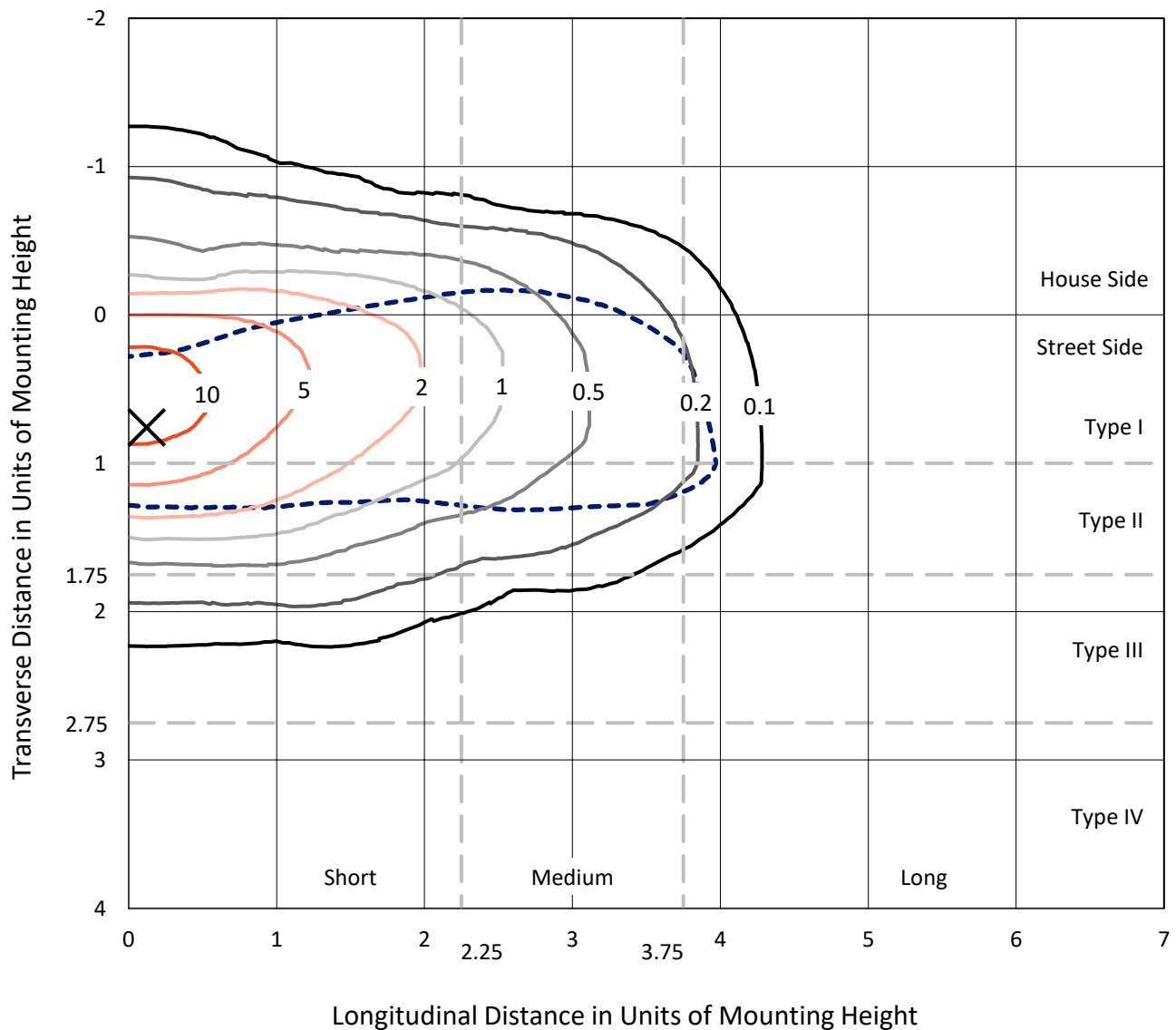


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

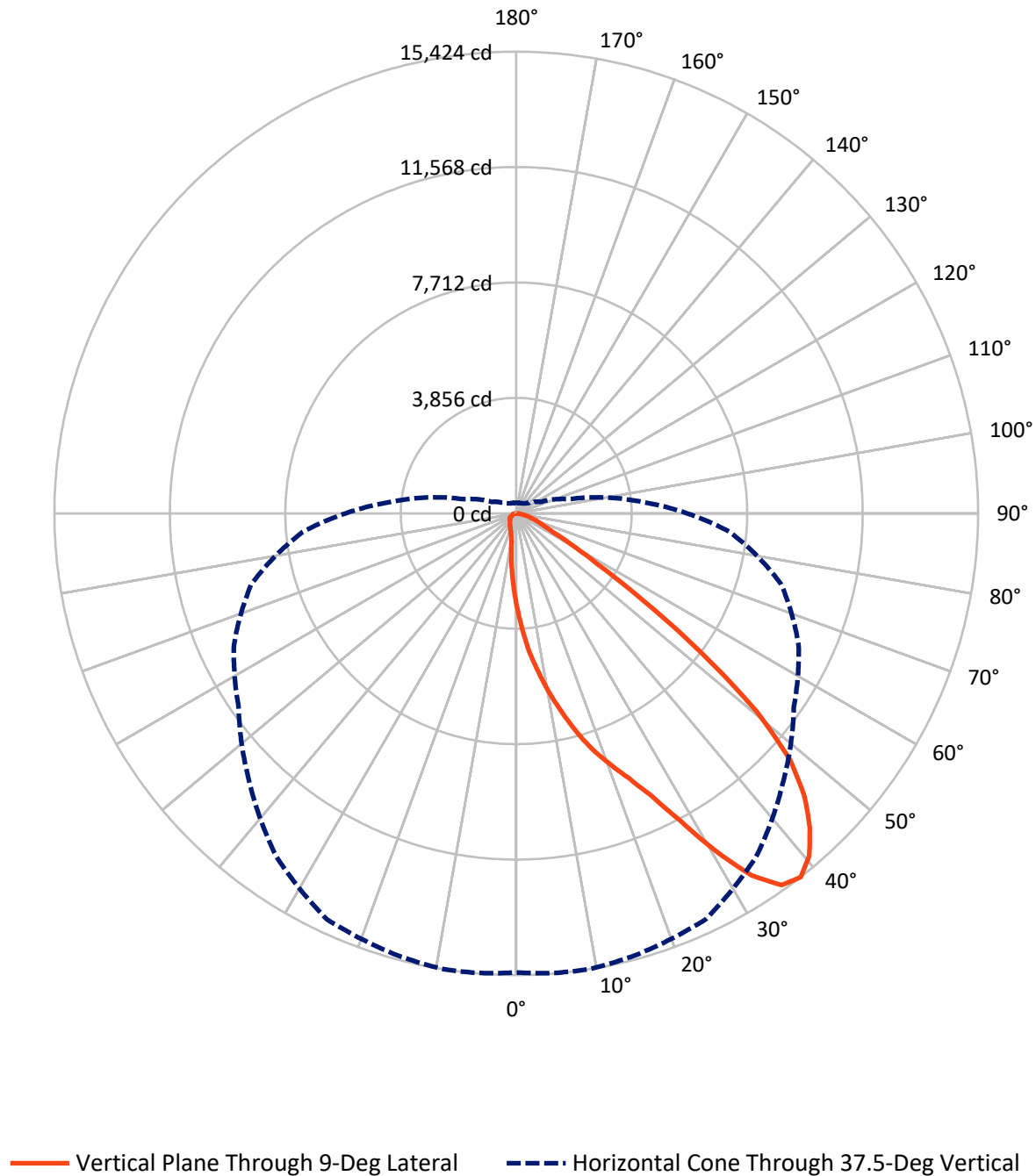


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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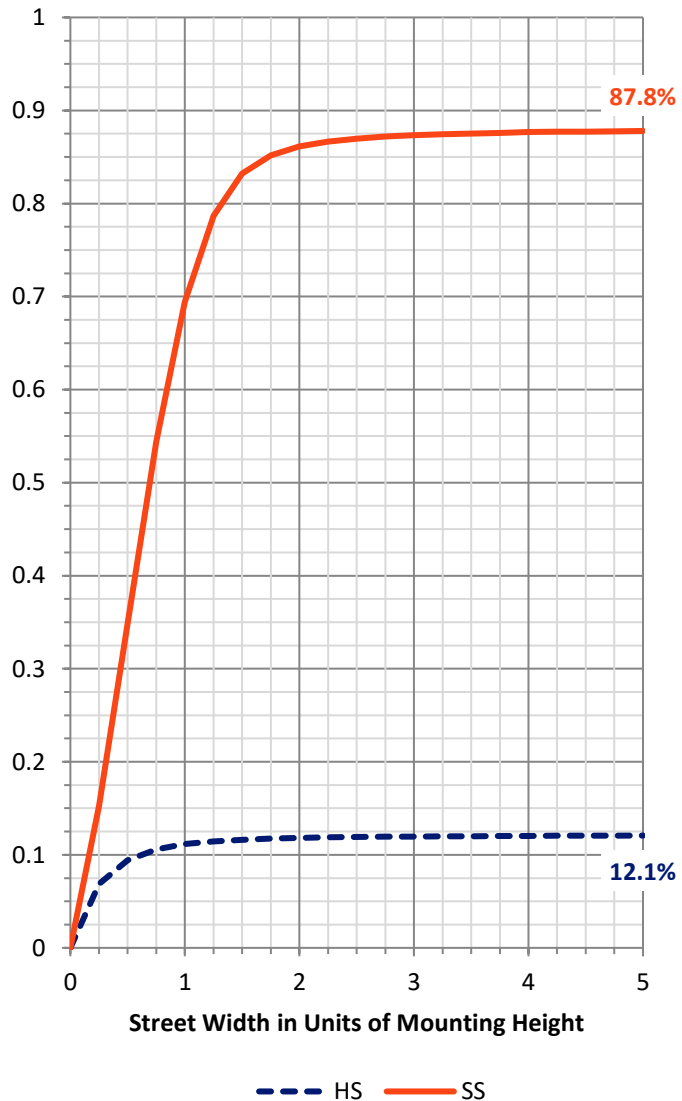
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2877.5	0.0	2877.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20782.5	0.0	20782.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	23660.0	0.0	23660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	1.3
10°-20°	1092.6	4.6
20°-30°	2245.1	9.5
30°-40°	3968.4	16.8
40°-50°	5271.7	22.3
50°-60°	4999.9	21.1
60°-70°	3814.5	16.1
70°-80°	1849.2	7.8
80°-90°	104.1	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°	23660.0	100.0
0°-180°	23660.0	100.0

Coefficient of Utilization



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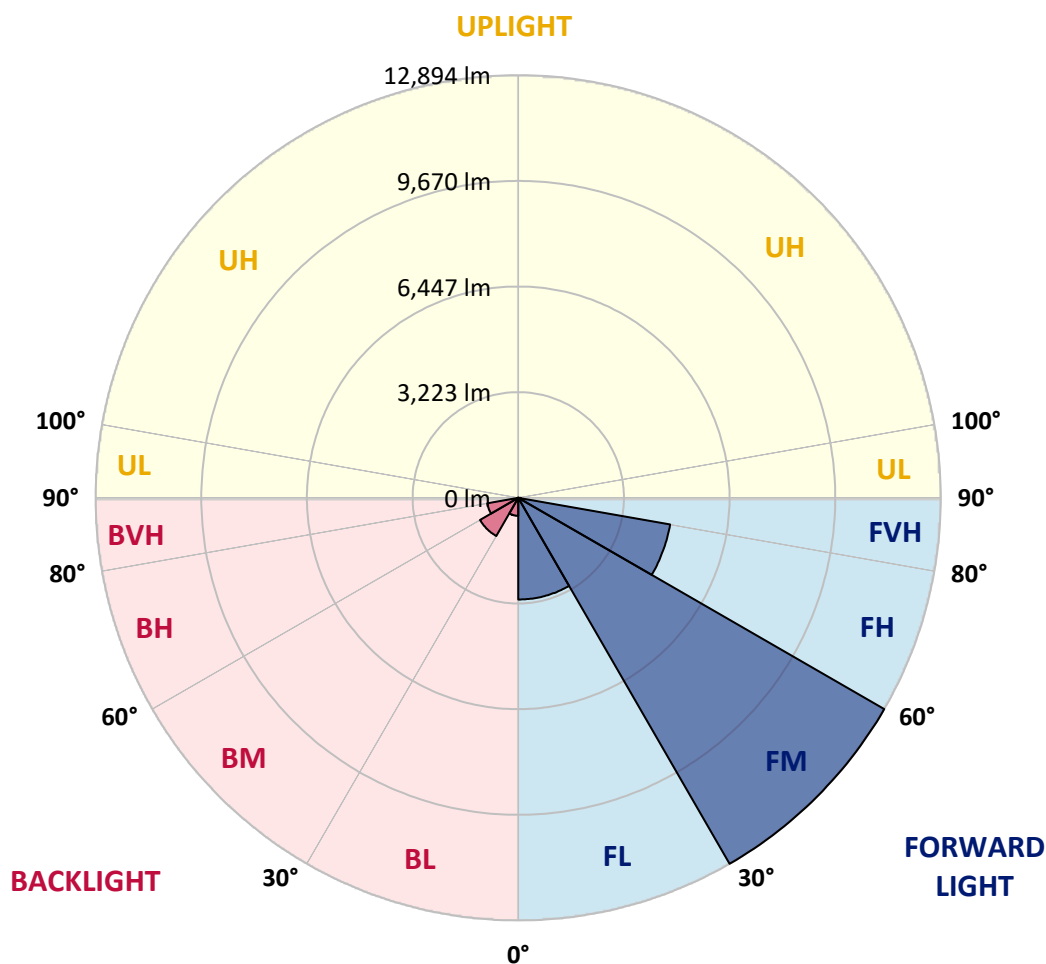
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3103.0	13.1			
FM	(30°-60°)	12893.6	54.5			
FH	(60°-80°)	4703.5	19.9			G2/5000
FVH	(80°-90°)	82.4	0.3			G1/100
BL	(0°-30°)	549.1	2.3	B2/1000		
BM	(30°-60°)	1346.5	5.7	B2/2500		
BH	(60°-80°)	960.2	4.1	B2/1000		G2/1000
BVH	(80°-90°)	21.7	0.1			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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	3875.5	3807.5	3885.2	3875.5	3807.5	3763.8	3627.8	3584.1	3423.8	3307.3	3205.3
5°	4671.9	4603.9	4671.9	4652.5	4555.4	4448.5	4225.1	4079.4	3792.9	3540.4	3312.1
7.5°	5332.4	5332.4	5361.5	5366.4	5249.8	5084.7	4807.9	4589.4	4186.3	3797.8	3433.5
10°	6046.3	6051.2	6114.3	6070.6	5915.2	5691.8	5342.1	5065.3	4579.6	4069.7	3550.1
12.5°	6808.8	6813.6	6833.1	6813.6	6629.1	6342.5	5920.0	5555.8	4997.3	4380.5	3710.3
15°	7571.2	7576.1	7600.4	7566.4	7362.4	7027.3	6546.5	6099.7	5439.2	4730.2	3904.6
17.5°	8285.1	8294.8	8314.3	8270.6	8056.9	7658.7	7168.1	6629.1	5910.3	5104.1	4123.1
20°	8926.2	8935.9	8950.5	8892.2	8678.5	8280.3	7750.9	7187.6	6391.1	5487.8	4361.1
22.5°	9572.1	9581.8	9606.1	9528.4	9290.4	8833.9	8314.3	7731.5	6901.0	5910.3	4637.9
25°	10397.7	10407.4	10426.8	10315.1	9989.8	9455.5	8906.8	8309.4	7454.7	6386.3	4977.9
27.5°	11607.0	11597.2	11597.2	11393.3	10834.8	10140.3	9504.1	8897.1	8052.0	6896.2	5351.8
30°	13102.8	13078.5	13063.9	12787.1	11990.6	10912.5	10116.0	9445.8	8625.1	7435.3	5754.9
32.5°	14443.1	14443.1	14414.0	14122.6	13277.6	11951.8	10766.8	9980.0	9178.7	7979.2	6172.6
35°	15234.7	15268.7	15254.2	15035.6	14418.9	13068.8	11645.8	10621.1	9761.5	8547.4	6672.8
37.5°	15341.6	15409.6	15424.1	15293.0	14967.6	13981.8	12622.0	11315.6	10402.6	9159.3	7158.4
40°	14909.4	15055.1	15055.1	15035.6	14919.1	14414.0	13442.7	12121.7	11063.0	9795.5	7648.9
42.5°	14244.0	14394.6	14375.1	14448.0	14418.9	14312.0	13904.1	12874.5	11723.5	10451.1	8095.7
45°	13374.7	13530.1	13491.3	13622.4	13680.7	13797.2	13855.5	13399.0	12374.3	11165.0	8595.9
47.5°	11980.9	12243.2	12301.4	12534.5	12777.4	13141.6	13418.4	13588.4	12981.3	11932.3	9139.9
50°	9921.8	10290.9	10407.4	10897.9	11563.3	12316.0	12762.8	13355.3	13408.7	12719.1	9727.5
52.5°	7105.0	7532.4	7712.1	8518.2	9887.8	11199.0	12005.2	12840.5	13573.8	13471.8	10363.7
55°	4594.2	4958.5	5133.3	5890.9	7712.1	9771.2	11111.6	12175.2	13481.6	14161.5	11092.2
57.5°	2831.3	3040.1	3156.7	3807.5	5483.0	7940.3	9941.2	11563.3	13199.9	14758.8	11849.8
60°	1908.6	2030.0	2088.3	2394.2	3724.9	5934.6	8333.7	10922.2	12830.8	15161.9	12539.4
62.5°	1267.5	1306.4	1364.7	1554.1	2457.4	4166.8	6400.8	9776.1	12554.0	15186.2	13049.3
65°	981.0	1000.4	1024.7	1107.3	1515.2	2913.9	4501.9	7920.9	12141.2	14671.4	13209.6
67.5°	772.2	791.6	820.7	864.5	1097.6	1976.6	3064.4	5803.5	11296.1	13865.2	12947.3
70°	607.1	621.6	641.1	679.9	854.7	1432.7	2025.1	3856.0	9591.5	13097.9	12121.7
72.5°	480.8	495.4	514.8	553.6	694.5	1049.0	1388.9	2404.0	7396.4	12160.6	10533.7
75°	378.8	388.5	403.1	441.9	558.5	815.9	942.2	1437.5	5026.4	10446.3	8207.4
77.5°	189.4	233.1	267.1	306.0	407.9	563.4	626.5	796.5	2122.3	5361.5	3914.3
80°	111.7	136.0	145.7	170.0	267.1	340.0	340.0	320.5	670.2	2059.1	1597.8
82.5°	63.1	87.4	92.3	97.1	160.3	194.3	155.4	116.6	136.0	689.6	466.2
85°	19.4	29.1	34.0	38.9	53.4	58.3	53.4	48.6	38.9	68.0	43.7
87.5°	0.0	0.0	0.0	0.0	4.9	9.7	9.7	9.7	14.6	14.6	14.6
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°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	3147.0	3083.9	2962.4	2850.7	2743.9	2666.2	2593.4	2525.4	2476.8	2437.9	2433.1
5°	3190.7	3064.4	2831.3	2612.8	2413.7	2248.5	2107.7	1996.0	1913.4	1855.2	1850.3
7.5°	3249.0	3054.7	2700.2	2374.8	2078.6	1840.6	1636.6	1486.1	1379.2	1335.5	1301.5
10°	3297.5	3045.0	2569.1	2136.8	1748.3	1447.2	1204.4	1053.9	976.2	947.0	932.4
12.5°	3380.1	3054.7	2457.4	1918.3	1461.8	1107.3	922.7	840.2	806.2	781.9	777.0
15°	3501.5	3098.4	2350.5	1704.6	1170.4	893.6	786.7	733.3	699.3	694.5	689.6
17.5°	3622.9	3137.3	2253.4	1486.1	971.3	777.0	704.2	660.5	636.2	631.3	631.3
20°	3763.8	3185.8	2146.6	1277.3	830.5	699.3	641.1	607.1	577.9	573.1	573.1
22.5°	3928.9	3253.8	2044.6	1092.7	738.2	641.1	592.5	553.6	529.4	524.5	524.5
25°	4152.3	3355.8	1962.0	956.7	675.0	592.5	548.8	514.8	495.4	485.6	485.6
27.5°	4400.0	3496.7	1903.7	874.2	631.3	553.6	509.9	480.8	461.4	451.7	451.7
30°	4676.8	3652.1	1864.9	840.2	607.1	519.6	480.8	451.7	427.4	422.5	422.5
32.5°	4982.7	3831.8	1840.6	845.0	602.2	495.4	451.7	422.5	403.1	393.4	393.4
35°	5322.7	4030.9	1826.0	874.2	611.9	475.9	427.4	398.2	378.8	369.1	369.1
37.5°	5701.5	4264.0	1826.0	903.3	636.2	471.1	403.1	373.9	359.4	349.7	349.7
40°	6056.0	4511.7	1845.5	937.3	660.5	471.1	383.7	359.4	340.0	330.2	330.2
42.5°	6332.8	4652.5	1860.0	971.3	675.0	466.2	364.2	340.0	325.4	315.7	315.7
45°	6648.5	4803.0	1830.9	985.9	675.0	456.5	349.7	325.4	310.8	301.1	301.1
47.5°	6998.2	4987.6	1826.0	995.6	660.5	437.1	335.1	310.8	301.1	291.4	291.4
50°	7352.7	5191.6	1835.7	990.7	641.1	407.9	315.7	301.1	286.5	276.8	276.8
52.5°	7755.8	5405.2	1855.2	981.0	597.3	373.9	301.1	286.5	272.0	262.2	257.4
55°	8202.6	5638.4	1894.0	961.6	539.1	340.0	286.5	272.0	252.5	242.8	238.0
57.5°	8717.4	5924.9	1937.7	922.7	475.9	310.8	272.0	252.5	223.4	208.8	204.0
60°	9207.9	6250.3	1986.3	830.5	412.8	281.7	257.4	228.3	199.1	189.4	184.5
62.5°	9669.2	6570.8	2010.6	665.3	349.7	257.4	242.8	208.8	179.7	170.0	165.1
65°	9965.5	6920.5	1957.2	451.7	286.5	238.0	223.4	194.3	165.1	150.6	150.6
67.5°	9984.9	7085.6	1772.6	296.2	233.1	213.7	204.0	174.8	145.7	136.0	131.1
70°	9494.4	6837.9	1355.0	233.1	194.3	184.5	184.5	155.4	126.3	116.6	111.7
72.5°	8367.7	6056.0	864.5	189.4	165.1	155.4	155.4	131.1	111.7	97.1	92.3
75°	6604.8	4671.9	461.4	155.4	136.0	131.1	121.4	106.8	92.3	82.6	77.7
77.5°	3035.3	2059.1	213.7	111.7	102.0	102.0	92.3	77.7	72.8	63.1	63.1
80°	1199.5	699.3	106.8	72.8	68.0	68.0	68.0	53.4	53.4	43.7	38.9
82.5°	330.2	145.7	53.4	43.7	43.7	43.7	38.9	34.0	34.0	29.1	29.1
85°	34.0	24.3	24.3	24.3	24.3	19.4	19.4	14.6	9.7	9.7	9.7
87.5°	14.6	14.6	14.6	14.6	14.6	9.7	4.9	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)