

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: P836064

Luminaire Tested: **ARCH3-130-750-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20459 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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

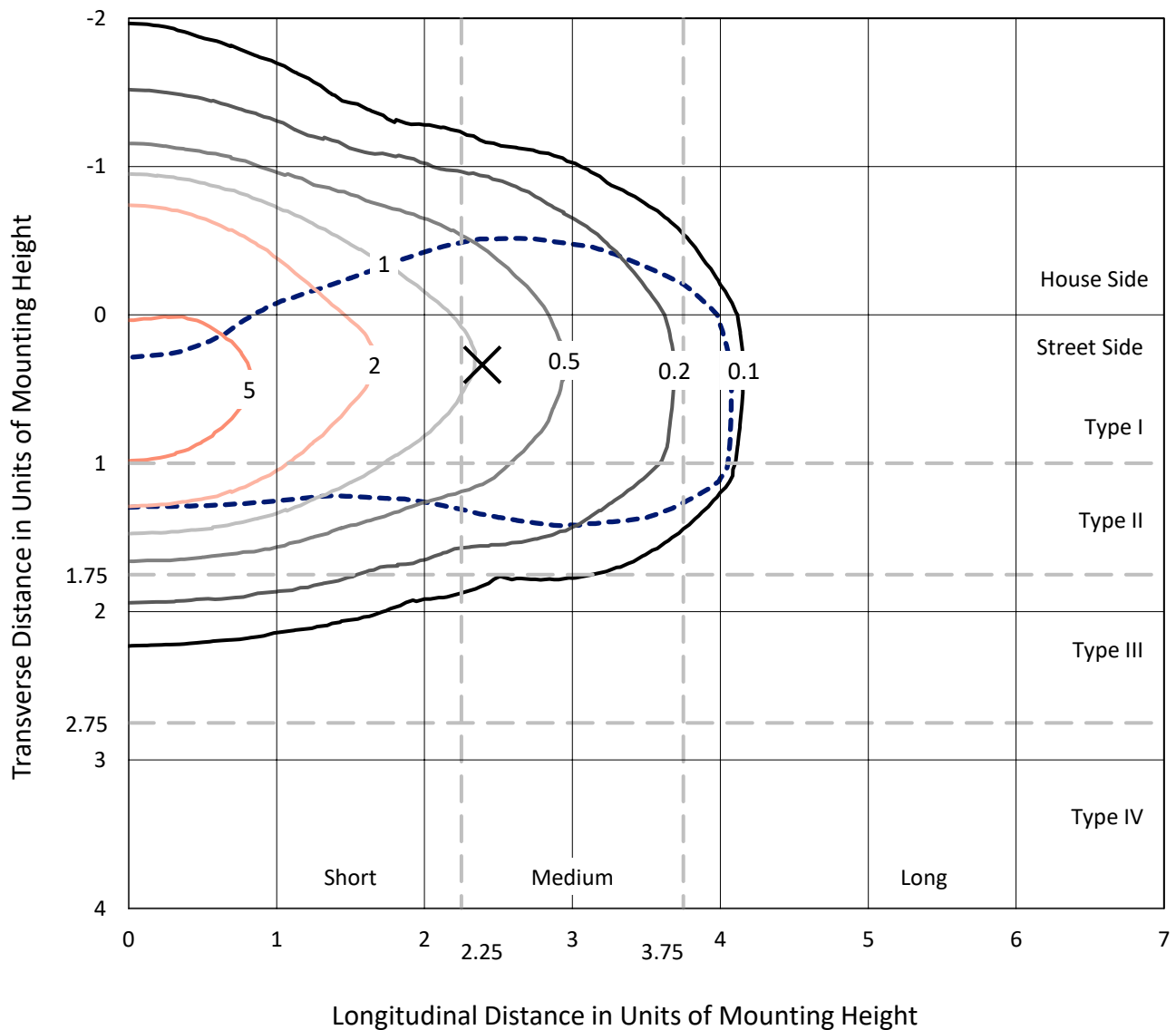


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Iso-Footcandle Lines of Horizontal Illumination

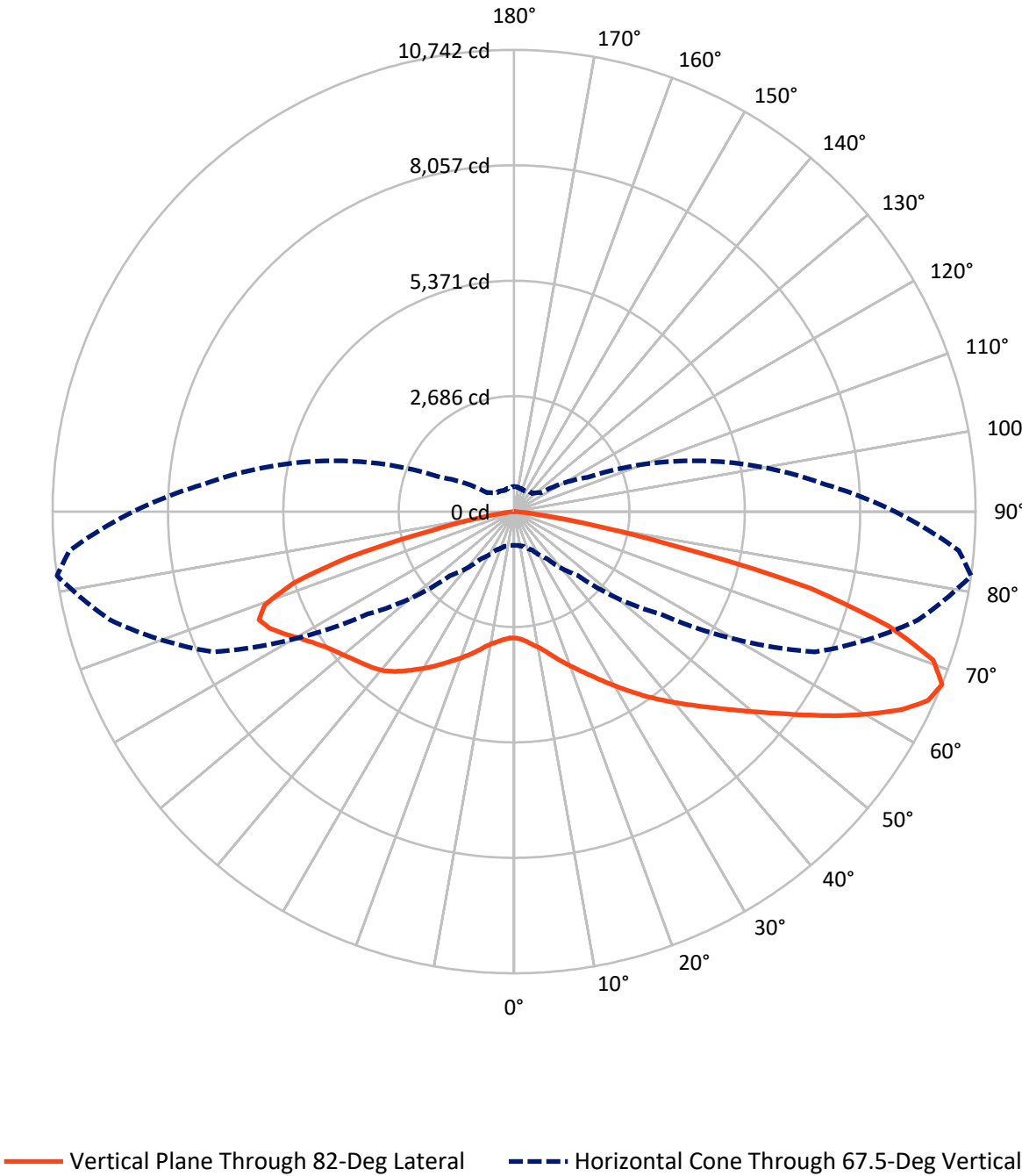
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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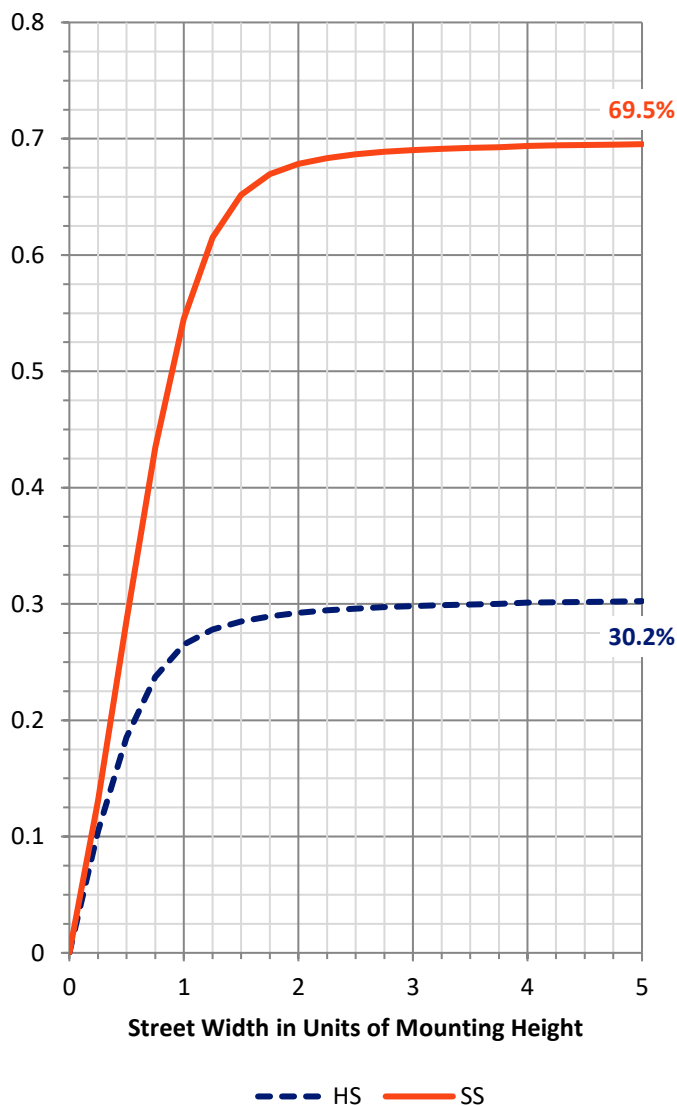
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6230.6	0.0	6230.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14228.4	0.0	14228.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	20459.0	0.0	20459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	1.5
10°-20°	1094.8	5.4
20°-30°	2200.3	10.8
30°-40°	3456.3	16.9
40°-50°	4210.5	20.6
50°-60°	3978.4	19.4
60°-70°	3285.2	16.1
70°-80°	1788.9	8.7
80°-90°	140.7	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°	20459.0	100.0
0°-180°	20459.0	100.0

Coefficient of Utilization



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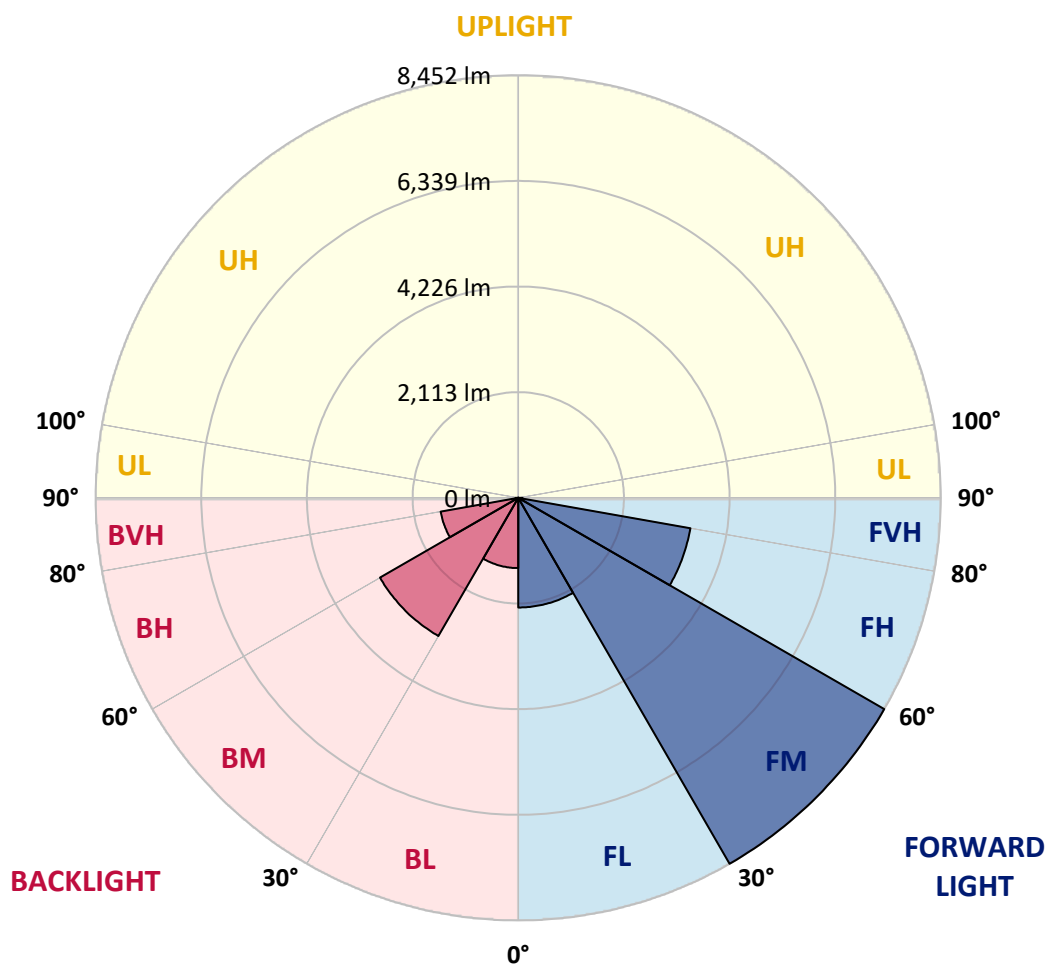
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2194.0	10.7			
FM	(30°-60°)	8452.5	41.3			
FH	(60°-80°)	3497.2	17.1			G2/5000
FVH	(80°-90°)	84.8	0.4			G1/100
BL	(0°-30°)	1405.0	6.9	B3/2500		
BM	(30°-60°)	3192.7	15.6	B3/5000		
BH	(60°-80°)	1577.0	7.7	B3/2500		G3/2500
BVH	(80°-90°)	55.9	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0
2.5°	3074.7	3074.7	3098.4	3098.4	3077.6	3044.9	3036.0	3000.4	2967.7	2967.7	2970.7
5°	3368.7	3365.8	3383.6	3359.8	3309.3	3244.0	3199.4	3122.2	3056.8	3036.0	3033.1
7.5°	3728.2	3725.2	3734.1	3695.5	3600.5	3493.5	3404.4	3279.6	3172.7	3128.1	3116.2
10°	4129.2	4126.3	4117.4	4052.0	3924.3	3757.9	3624.2	3451.9	3291.5	3220.2	3205.4
12.5°	4589.7	4583.8	4563.0	4467.9	4292.6	4078.7	3885.6	3662.8	3449.0	3350.9	3318.2
15°	5103.6	5094.7	5056.1	4940.2	4705.6	4435.2	4185.7	3900.5	3639.1	3511.3	3466.8
17.5°	5644.3	5644.3	5584.9	5412.6	5151.2	4815.5	4506.5	4144.1	3838.1	3680.7	3627.2
20°	6193.9	6190.9	6116.6	5908.7	5599.7	5213.5	4821.4	4423.3	4043.1	3853.0	3787.6
22.5°	6773.1	6767.2	6675.1	6437.5	6069.1	5632.4	5174.9	4699.6	4268.9	4040.1	3956.9
25°	7438.6	7429.7	7316.8	7025.7	6589.0	6095.8	5573.0	5023.4	4527.3	4248.1	4150.0
27.5°	8145.6	8133.7	8000.0	7661.4	7183.1	6589.0	6012.7	5397.7	4812.5	4479.8	4369.9
30°	8775.4	8766.5	8620.9	8273.3	7723.8	7079.1	6431.5	5772.0	5112.5	4726.3	4589.7
32.5°	9250.7	9250.7	9120.0	8778.4	8208.0	7548.5	6853.4	6125.5	5424.5	4990.7	4830.3
35°	9538.8	9547.8	9434.9	9161.6	8623.9	7991.1	7290.0	6541.4	5757.2	5273.0	5100.7
37.5°	9580.4	9610.1	9544.8	9360.6	8912.0	8359.5	7717.8	6942.5	6101.8	5558.1	5365.0
40°	9387.3	9408.1	9411.1	9339.8	9030.9	8623.9	8095.1	7367.3	6467.2	5858.2	5635.4
42.5°	9001.2	9016.0	9042.7	9063.5	8944.7	8739.7	8383.3	7762.4	6856.3	6164.2	5902.7
45°	8502.1	8499.1	8543.7	8632.8	8626.8	8674.4	8543.7	8121.8	7260.3	6511.7	6199.8
47.5°	7756.4	7741.6	7899.0	8101.0	8202.0	8424.8	8546.6	8404.0	7700.0	6894.9	6538.5
50°	6589.0	6574.1	6918.7	7394.0	7691.1	8029.7	8383.3	8573.4	8160.5	7325.7	6906.8
52.5°	5169.0	5154.1	5590.8	6422.6	7070.2	7563.3	8053.5	8612.0	8597.1	7806.9	7322.7
55°	3844.1	3832.2	4257.0	5157.1	6205.7	7022.7	7649.5	8511.0	9007.1	8359.5	7827.7
57.5°	2709.3	2703.3	3071.7	3817.3	5094.7	6363.2	7260.3	8314.9	9384.4	8959.6	8398.1
60°	1901.2	1892.3	2159.7	2736.0	3853.0	5368.0	6874.1	8053.5	9666.6	9550.7	9004.1
62.5°	1280.4	1274.4	1464.5	1945.8	2736.0	4132.2	6288.9	7878.2	9827.0	10144.9	9616.1
65°	971.4	968.4	1054.6	1319.0	1936.9	2967.7	5359.1	7857.4	9847.8	10590.5	10136.0
67.5°	784.3	787.2	834.8	986.3	1339.8	2109.2	4156.0	7726.7	9737.9	10742.0	10388.5
70°	641.7	641.7	662.5	763.5	989.2	1423.0	2902.4	7132.6	9431.9	10346.9	10088.4
72.5°	490.2	493.1	558.5	617.9	745.6	998.1	1859.6	5902.7	8710.0	9123.0	8926.9
75°	389.2	386.2	424.8	508.0	579.3	713.0	1140.7	4233.2	7411.8	7129.6	7004.9
77.5°	279.2	276.3	306.0	377.3	439.7	505.0	680.3	2135.9	4031.2	3704.4	3612.3
80°	190.1	184.2	210.9	261.4	291.1	297.1	332.7	819.9	1758.6	1657.6	1636.8
82.5°	98.0	98.0	112.9	148.5	151.5	154.5	148.5	264.4	582.3	543.6	519.9
85°	38.6	38.6	41.6	50.5	50.5	53.5	53.5	68.3	62.4	59.4	56.4
87.5°	3.0	3.0	5.9	5.9	8.9	8.9	8.9	11.9	14.9	14.9	14.9
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°	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0	2941.0
2.5°	2964.7	2952.9	2914.2	2905.3	2899.4	2890.5	2893.4	2872.6	2863.7	2866.7	2854.8
5°	3018.2	2997.4	2949.9	2929.1	2923.1	2914.2	2923.1	2908.3	2893.4	2899.4	2893.4
7.5°	3092.5	3062.8	3003.4	2982.6	2979.6	2970.7	2982.6	2970.7	2958.8	2964.7	2952.9
10°	3169.7	3131.1	3065.7	3044.9	3044.9	3042.0	3053.9	3036.0	3024.1	3027.1	3021.2
12.5°	3282.6	3232.1	3160.8	3143.0	3134.1	3143.0	3145.9	3122.2	3101.4	3104.4	3095.4
15°	3419.2	3362.8	3285.6	3258.8	3252.9	3249.9	3238.0	3208.3	3181.6	3178.6	3169.7
17.5°	3567.8	3496.5	3404.4	3377.7	3350.9	3342.0	3312.3	3273.7	3232.1	3232.1	3220.2
20°	3710.4	3630.2	3520.3	3481.6	3443.0	3407.4	3356.9	3294.5	3241.0	3232.1	3220.2
22.5°	3864.9	3769.8	3642.1	3585.6	3517.3	3446.0	3359.8	3276.7	3208.3	3193.5	3184.6
25°	4037.2	3918.3	3766.8	3683.6	3573.7	3463.8	3336.1	3229.1	3148.9	3125.2	3119.2
27.5°	4227.3	4084.7	3900.5	3778.7	3618.3	3446.0	3282.6	3154.9	3056.8	3027.1	3018.2
30°	4420.4	4251.0	4022.3	3844.1	3618.3	3389.5	3184.6	3036.0	2923.1	2881.6	2875.6
32.5°	4613.5	4423.3	4132.2	3879.7	3582.6	3294.5	3056.8	2881.6	2753.8	2703.3	2715.2
35°	4845.2	4613.5	4233.2	3894.6	3523.2	3178.6	2911.3	2706.3	2575.6	2531.0	2539.9
37.5°	5085.8	4803.6	4313.4	3882.7	3440.0	3047.9	2747.9	2548.8	2385.5	2308.2	2317.1
40°	5293.7	4975.9	4369.9	3841.1	3333.1	2899.4	2587.5	2326.0	2100.3	2026.0	2017.1
42.5°	5489.8	5103.6	4399.6	3778.7	3211.3	2727.1	2358.7	2023.0	1797.3	1705.2	1708.1
45°	5694.8	5228.4	4387.7	3695.5	3059.8	2525.1	2064.6	1726.0	1526.9	1443.7	1446.7
47.5°	5929.5	5362.1	4375.8	3606.4	2875.6	2263.7	1782.4	1464.5	1292.2	1232.8	1226.9
50°	6179.0	5510.6	4361.0	3496.5	2670.6	1972.5	1503.2	1220.9	1075.4	1036.8	1027.9
52.5°	6461.2	5671.0	4352.0	3365.8	2424.1	1663.6	1253.6	1007.1	909.0	882.3	879.3
55°	6799.9	5858.2	4363.9	3208.3	2127.0	1372.5	1042.7	867.4	802.1	787.2	784.3
57.5°	7212.8	6098.8	4399.6	3024.1	1815.1	1119.9	888.2	781.3	739.7	727.8	727.8
60°	7661.4	6372.1	4464.9	2816.2	1503.2	923.9	787.2	713.0	695.1	710.0	710.0
62.5°	8145.6	6692.9	4580.8	2563.7	1212.0	781.3	707.0	656.5	644.6	674.3	677.3
65°	8594.2	7004.9	4655.1	2260.7	962.5	677.3	644.6	600.1	606.0	635.7	632.8
67.5°	8870.4	7263.3	4551.1	1880.4	763.5	600.1	579.3	540.7	555.5	579.3	582.3
70°	8701.1	7117.7	4037.2	1420.0	597.1	522.8	508.0	484.2	496.1	525.8	537.7
72.5°	7872.3	6375.1	3140.0	959.5	481.2	439.7	445.6	433.7	448.6	475.3	502.0
75°	6389.9	4818.4	2106.2	614.9	380.2	374.3	383.2	374.3	380.2	407.0	421.8
77.5°	3336.1	2349.8	1048.6	383.2	282.2	291.1	306.0	309.0	326.8	332.7	338.7
80°	1556.6	1057.6	436.7	213.9	187.2	205.0	234.7	237.7	243.6	252.5	255.5
82.5°	508.0	317.9	202.0	115.9	106.9	115.9	151.5	181.2	184.2	202.0	202.0
85°	53.5	32.7	44.6	47.5	41.6	50.5	68.3	65.4	29.7	17.8	17.8
87.5°	14.9	11.9	14.9	14.9	11.9	11.9	8.9	3.0	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)