

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: P840975

Luminaire Tested: **ARCH4-110-750-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20102 lumens
Efficiency: N/A
Efficacy: 178.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

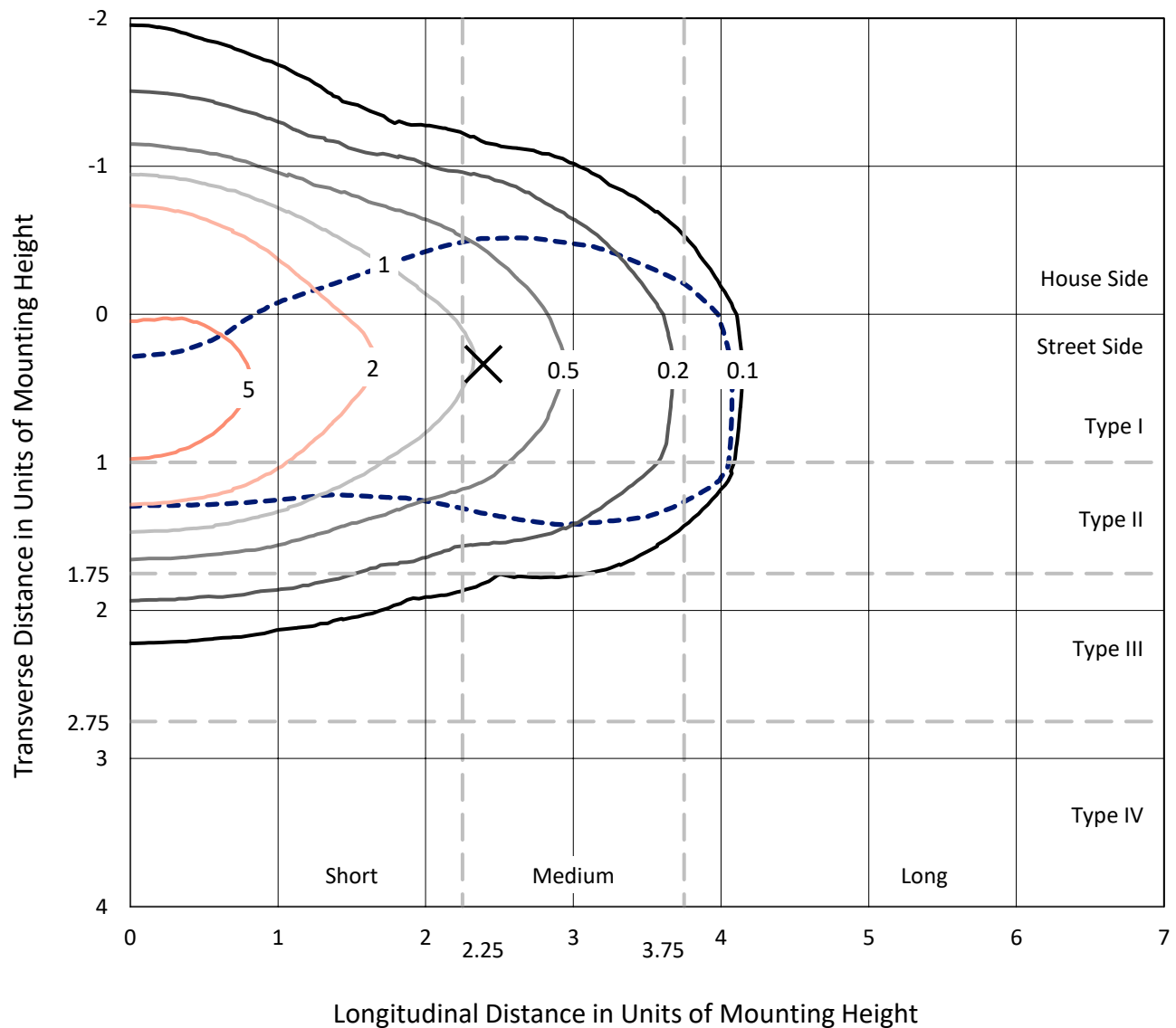
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

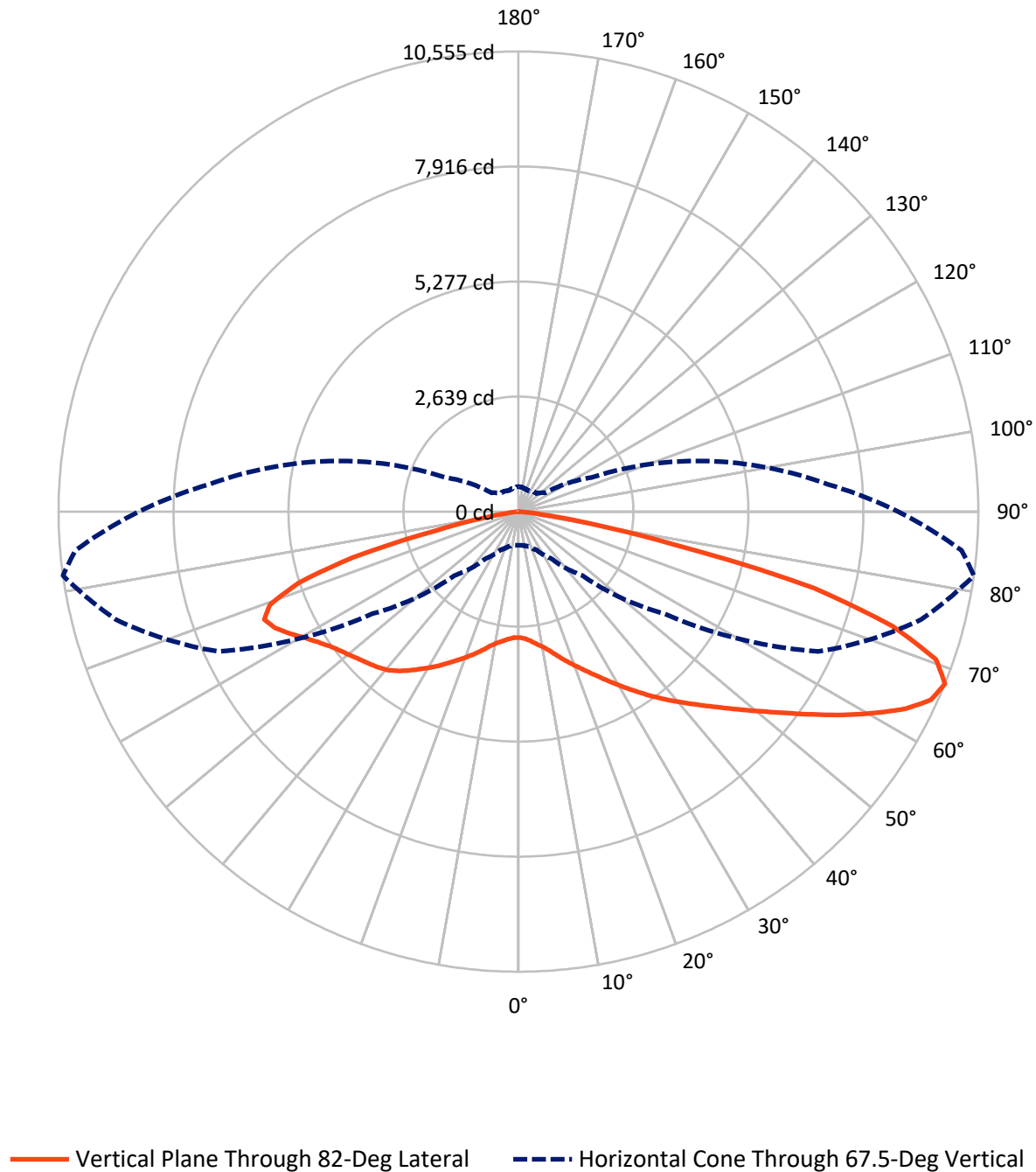
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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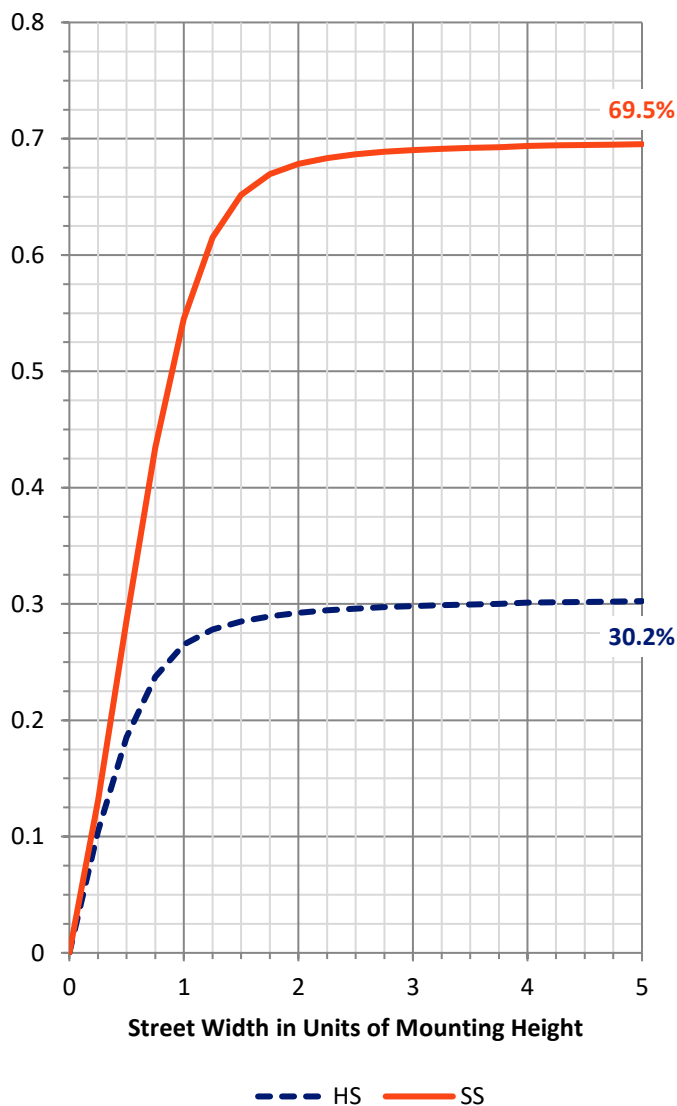
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6121.9	0.0	6121.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13980.1	0.0	13980.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	20102.0	0.0	20102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	1.5
10°-20°	1075.7	5.4
20°-30°	2161.9	10.8
30°-40°	3396.0	16.9
40°-50°	4137.0	20.6
50°-60°	3909.0	19.4
60°-70°	3227.9	16.1
70°-80°	1757.7	8.7
80°-90°	138.2	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°	20102.0	100.0
0°-180°	20102.0	100.0

Coefficient of Utilization



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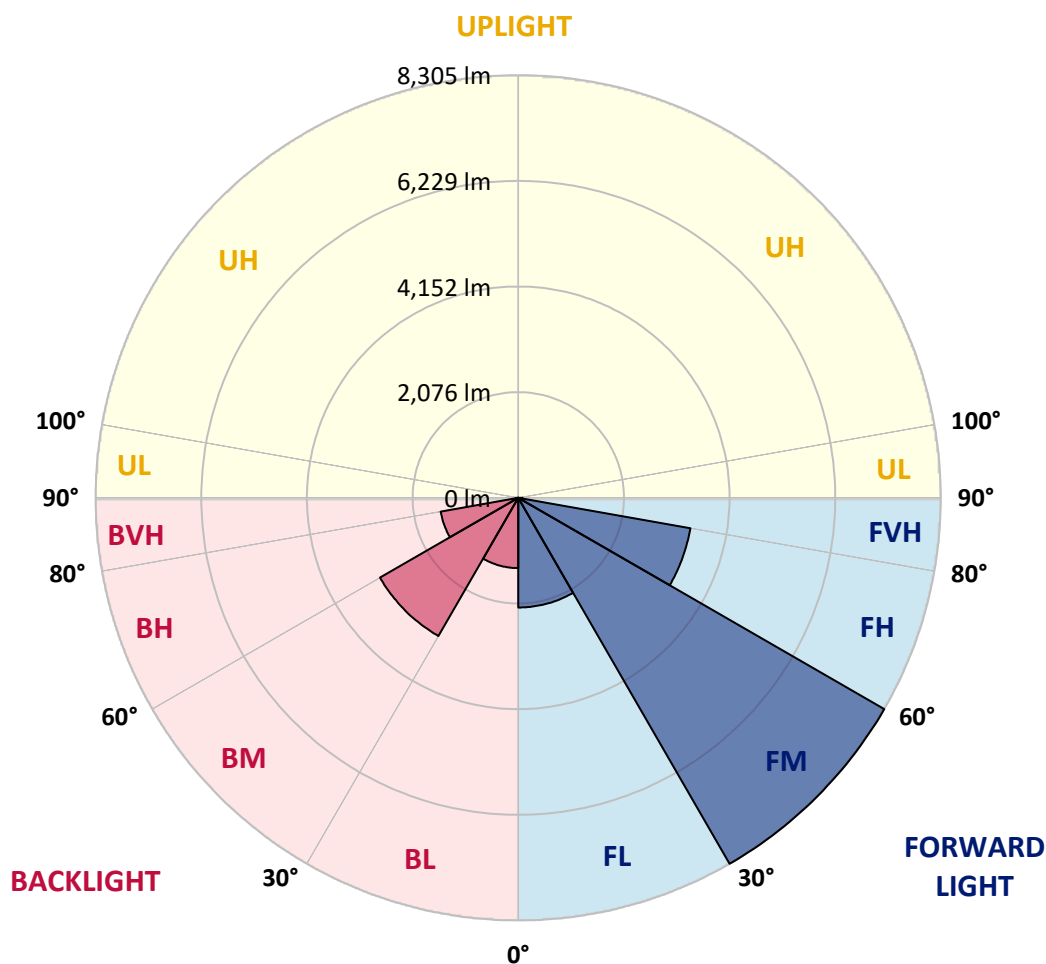
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2155.7	10.7			
FM	(30°-60°)	8305.0	41.3			
FH	(60°-80°)	3436.2	17.1			G2/5000
FVH	(80°-90°)	83.3	0.4			G1/100
BL	(0°-30°)	1380.5	6.9	B3/2500		
BM	(30°-60°)	3137.0	15.6	B3/5000		
BH	(60°-80°)	1549.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	54.9	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°	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7
2.5°	3021.0	3021.0	3044.4	3044.4	3023.9	2991.8	2983.1	2948.0	2915.9	2915.9	2918.8
5°	3310.0	3307.0	3324.6	3301.2	3251.6	3187.4	3143.6	3067.7	3003.5	2983.1	2980.1
7.5°	3663.1	3660.2	3669.0	3631.0	3537.6	3432.6	3345.0	3222.4	3117.3	3073.5	3061.9
10°	4057.2	4054.3	4045.5	3981.3	3855.8	3692.3	3561.0	3391.7	3234.1	3164.0	3149.4
12.5°	4509.6	4503.8	4483.3	4389.9	4217.7	4007.6	3817.8	3598.9	3388.8	3292.5	3260.3
15°	5014.6	5005.8	4967.9	4854.0	4623.4	4357.8	4112.6	3832.4	3575.6	3450.1	3406.3
17.5°	5545.8	5545.8	5487.4	5318.1	5061.3	4731.4	4427.9	4071.8	3771.1	3616.4	3563.9
20°	6085.8	6082.9	6009.9	5805.6	5502.0	5122.6	4737.3	4346.2	3972.5	3785.7	3721.5
22.5°	6655.0	6649.1	6558.6	6325.1	5963.2	5534.1	5084.6	4617.6	4194.4	3969.6	3887.9
25°	7308.8	7300.0	7189.1	6903.1	6474.0	5989.5	5475.7	4935.8	4448.3	4173.9	4077.6
27.5°	8003.5	7991.8	7860.4	7527.7	7057.8	6474.0	5907.7	5303.5	4728.5	4401.6	4293.6
30°	8622.3	8613.5	8470.5	8129.0	7589.0	6955.6	6319.3	5671.3	5023.3	4643.9	4509.6
32.5°	9089.3	9089.3	8960.8	8625.2	8064.8	7416.8	6733.8	6018.6	5329.8	4903.7	4746.0
35°	9372.4	9381.2	9270.2	9001.7	8473.4	7851.7	7162.8	6427.3	5656.7	5180.9	5011.6
37.5°	9413.3	9442.4	9378.2	9197.3	8756.5	8213.6	7583.1	6821.3	5995.3	5461.2	5271.4
40°	9223.5	9244.0	9246.9	9176.8	8873.3	8473.4	7953.8	7238.7	6354.3	5756.0	5537.0
42.5°	8844.1	8858.7	8885.0	8905.4	8788.6	8587.2	8237.0	7626.9	6736.7	6056.6	5799.7
45°	8353.7	8350.8	8394.6	8482.2	8476.3	8523.0	8394.6	7980.1	7133.6	6398.1	6091.6
47.5°	7621.1	7606.5	7761.2	7959.7	8058.9	8277.8	8397.5	8257.4	7565.6	6774.6	6424.4
50°	6474.0	6459.4	6798.0	7265.0	7556.9	7889.6	8237.0	8423.8	8018.1	7197.9	6786.3
52.5°	5078.8	5064.2	5493.3	6310.5	6946.8	7431.4	7913.0	8461.7	8447.1	7670.7	7194.9
55°	3777.0	3765.3	4182.7	5067.1	6097.5	6900.1	7516.0	8362.5	8849.9	8213.6	7691.1
57.5°	2662.0	2656.1	3018.1	3750.7	5005.8	6252.2	7133.6	8169.8	9220.6	8803.2	8251.6
60°	1868.1	1859.3	2122.0	2688.3	3785.7	5274.3	6754.2	7913.0	9497.9	9384.1	8847.0
62.5°	1258.0	1252.2	1439.0	1911.8	2688.3	4060.1	6179.2	7740.8	9655.5	9967.8	9448.3
65°	954.5	951.5	1036.2	1296.0	1903.1	2915.9	5265.6	7720.3	9676.0	10405.7	9959.1
67.5°	770.6	773.5	820.2	969.1	1316.4	2072.4	4083.5	7591.9	9568.0	10554.5	10207.2
70°	630.5	630.5	650.9	750.1	972.0	1398.1	2851.7	7008.1	9267.3	10166.3	9912.4
72.5°	481.6	484.5	548.7	607.1	732.6	980.7	1827.2	5799.7	8558.0	8963.8	8771.1
75°	382.4	379.4	417.4	499.1	569.2	700.5	1120.8	4159.3	7282.5	7005.2	6882.6
77.5°	274.4	271.5	300.6	370.7	432.0	496.2	668.4	2098.6	3960.9	3639.8	3549.3
80°	186.8	181.0	207.2	256.9	286.0	291.9	326.9	805.6	1728.0	1628.7	1608.3
82.5°	96.3	96.3	110.9	145.9	148.9	151.8	145.9	259.8	572.1	534.1	510.8
85°	37.9	37.9	40.9	49.6	49.6	52.5	52.5	67.1	61.3	58.4	55.5
87.5°	2.9	2.9	5.8	5.8	8.8	8.8	8.8	11.7	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°	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7	2889.7
2.5°	2913.0	2901.3	2863.4	2854.6	2848.8	2840.0	2843.0	2822.5	2813.8	2816.7	2805.0
5°	2965.5	2945.1	2898.4	2878.0	2872.1	2863.4	2872.1	2857.5	2843.0	2848.8	2843.0
7.5°	3038.5	3009.3	2950.9	2930.5	2927.6	2918.8	2930.5	2918.8	2907.2	2913.0	2901.3
10°	3114.4	3076.5	3012.2	2991.8	2991.8	2988.9	3000.6	2983.1	2971.4	2974.3	2968.5
12.5°	3225.3	3175.7	3105.6	3088.1	3079.4	3088.1	3091.1	3067.7	3047.3	3050.2	3041.4
15°	3359.6	3304.1	3228.2	3202.0	3196.1	3193.2	3181.5	3152.3	3126.1	3123.2	3114.4
17.5°	3505.5	3435.5	3345.0	3318.7	3292.5	3283.7	3254.5	3216.6	3175.7	3175.7	3164.0
20°	3645.6	3566.8	3458.8	3420.9	3382.9	3347.9	3298.3	3237.0	3184.5	3175.7	3164.0
22.5°	3797.4	3704.0	3578.5	3523.0	3455.9	3385.9	3301.2	3219.5	3152.3	3137.8	3129.0
25°	3966.7	3850.0	3701.1	3619.4	3511.4	3403.4	3277.9	3172.8	3094.0	3070.6	3064.8
27.5°	4153.5	4013.4	3832.4	3712.8	3555.1	3385.9	3225.3	3099.8	3003.5	2974.3	2965.5
30°	4343.2	4176.9	3952.1	3777.0	3555.1	3330.4	3129.0	2983.1	2872.1	2831.3	2825.4
32.5°	4533.0	4346.2	4060.1	3812.0	3520.1	3237.0	3003.5	2831.3	2705.8	2656.1	2667.8
35°	4760.6	4533.0	4159.3	3826.6	3461.7	3123.2	2860.5	2659.1	2530.6	2486.9	2495.6
37.5°	4997.1	4719.8	4238.2	3814.9	3380.0	2994.7	2699.9	2504.4	2343.8	2267.9	2276.7
40°	5201.4	4889.1	4293.6	3774.1	3274.9	2848.8	2542.3	2285.5	2063.6	1990.6	1981.9
42.5°	5394.0	5014.6	4322.8	3712.8	3155.3	2679.5	2317.6	1987.7	1765.9	1675.4	1678.3
45°	5595.4	5137.2	4311.1	3631.0	3006.4	2481.0	2028.6	1695.8	1500.3	1418.6	1421.5
47.5°	5826.0	5268.5	4299.5	3543.5	2825.4	2224.2	1751.3	1439.0	1269.7	1211.3	1205.5
50°	6071.2	5414.4	4284.9	3435.5	2624.0	1938.1	1476.9	1199.6	1056.6	1018.7	1009.9
52.5°	6348.5	5572.1	4276.1	3307.0	2381.8	1634.6	1231.8	989.5	893.2	866.9	864.0
55°	6681.2	5756.0	4287.8	3152.3	2089.9	1348.5	1024.5	852.3	788.1	773.5	770.6
57.5°	7086.9	5992.4	4322.8	2971.4	1783.4	1100.4	872.7	767.7	726.8	715.1	715.1
60°	7527.7	6260.9	4387.0	2767.1	1476.9	907.8	773.5	700.5	683.0	697.6	697.6
62.5°	8003.5	6576.1	4500.9	2519.0	1190.9	767.7	694.7	645.1	633.4	662.6	665.5
65°	8444.2	6882.6	4573.8	2221.2	945.7	665.5	633.4	589.6	595.4	624.6	621.7
67.5°	8715.7	7136.6	4471.7	1847.6	750.1	589.6	569.2	531.2	545.8	569.2	572.1
70°	8549.3	6993.5	3966.7	1395.2	586.7	513.7	499.1	475.8	487.4	516.6	528.3
72.5°	7734.9	6263.8	3085.2	942.8	472.9	432.0	437.8	426.2	440.7	467.0	493.3
75°	6278.4	4734.4	2069.5	604.2	373.6	367.8	376.5	367.8	373.6	399.9	414.5
77.5°	3277.9	2308.8	1030.4	376.5	277.3	286.0	300.6	303.6	321.1	326.9	332.7
80°	1529.5	1039.1	429.1	210.2	183.9	201.4	230.6	233.5	239.3	248.1	251.0
82.5°	499.1	312.3	198.5	113.8	105.1	113.8	148.9	178.0	181.0	198.5	198.5
85°	52.5	32.1	43.8	46.7	40.9	49.6	67.1	64.2	29.2	17.5	17.5
87.5°	14.6	11.7	14.6	14.6	11.7	11.7	8.8	2.9	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)