

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: P836037

Luminaire Tested: **ARCH3-130-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836037
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: ARCH3-130-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

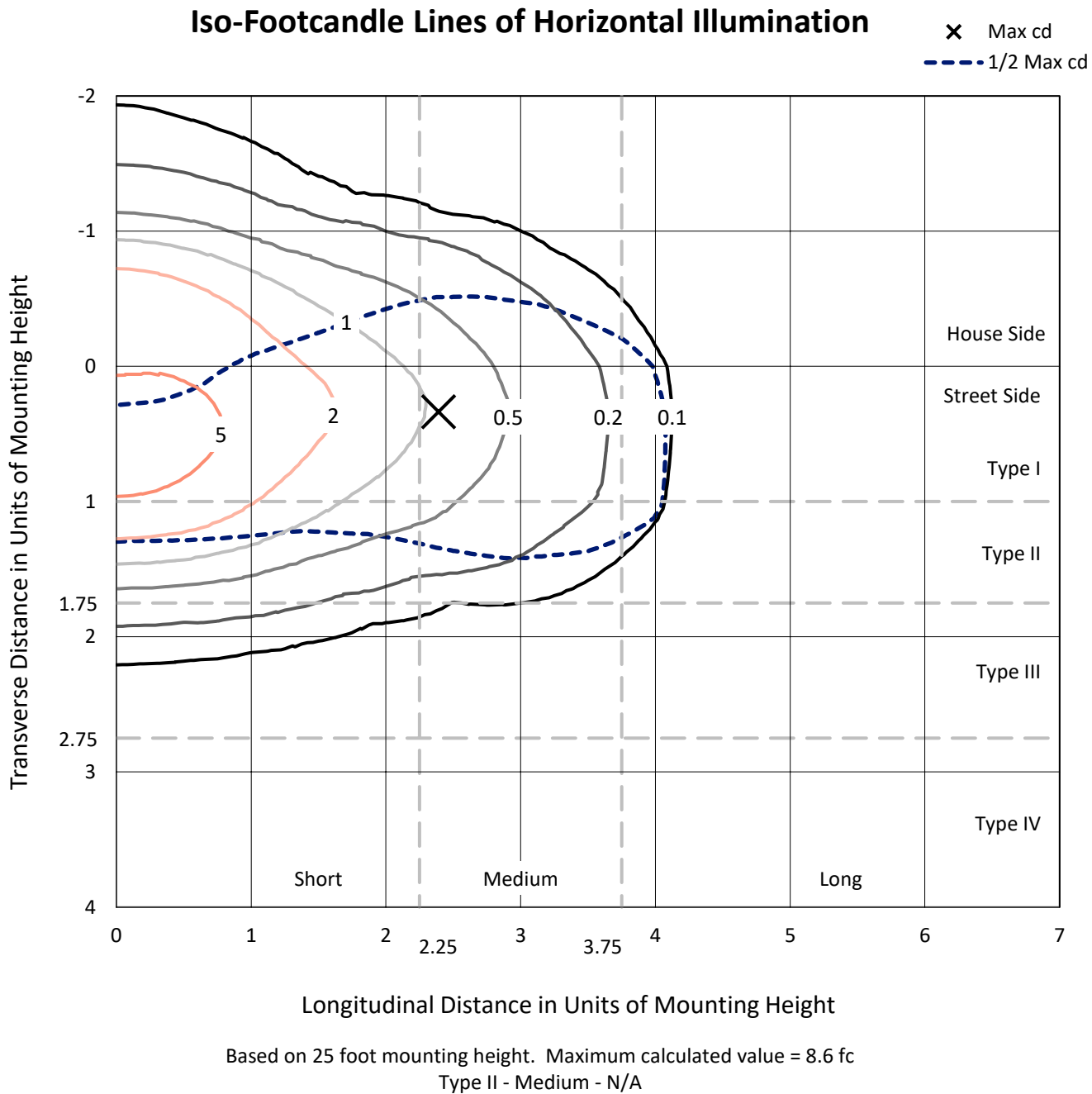
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19484 lumens
Efficiency: N/A
Efficacy: 146.9 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

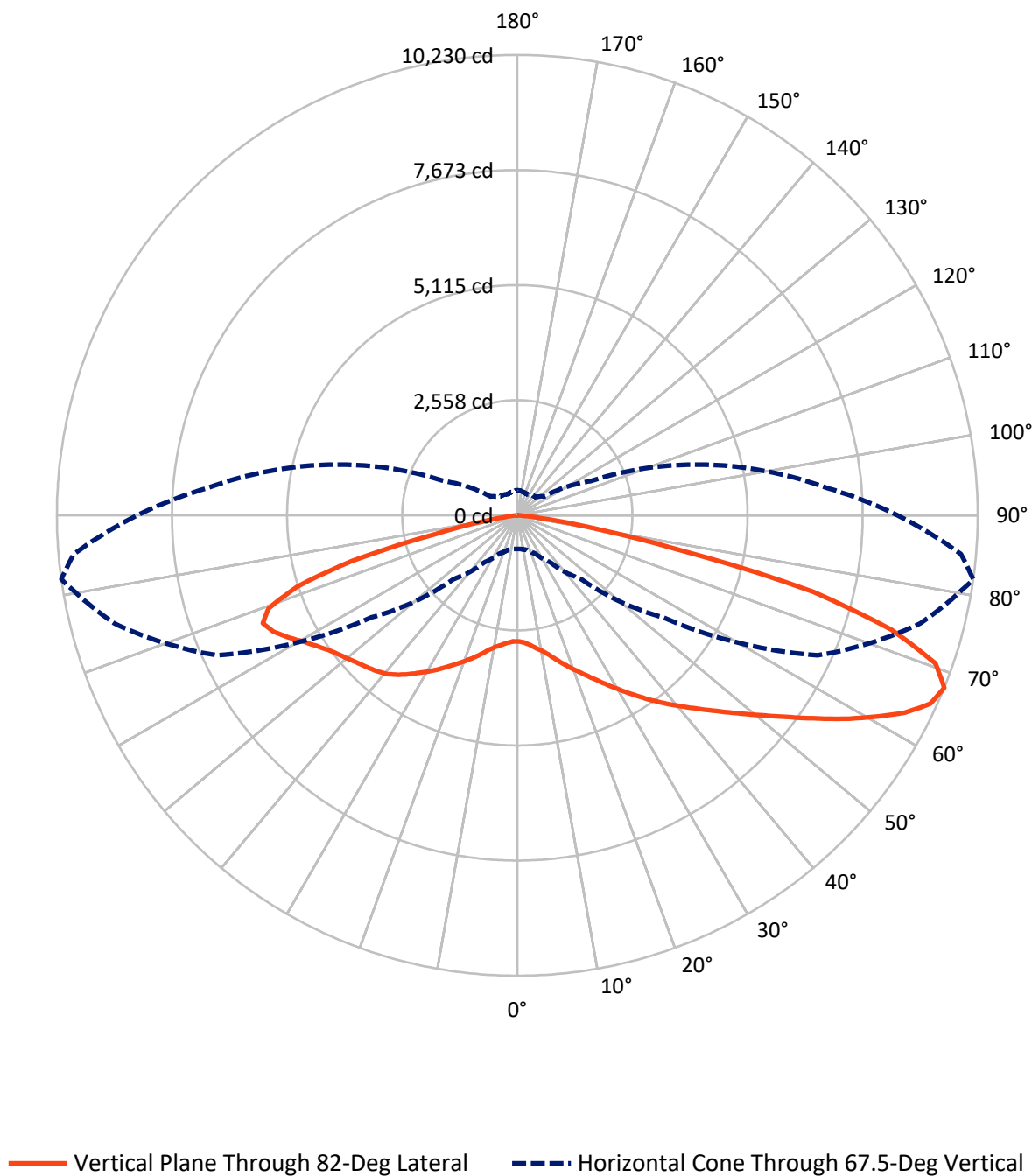


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Luminous Intensity Polar Plot



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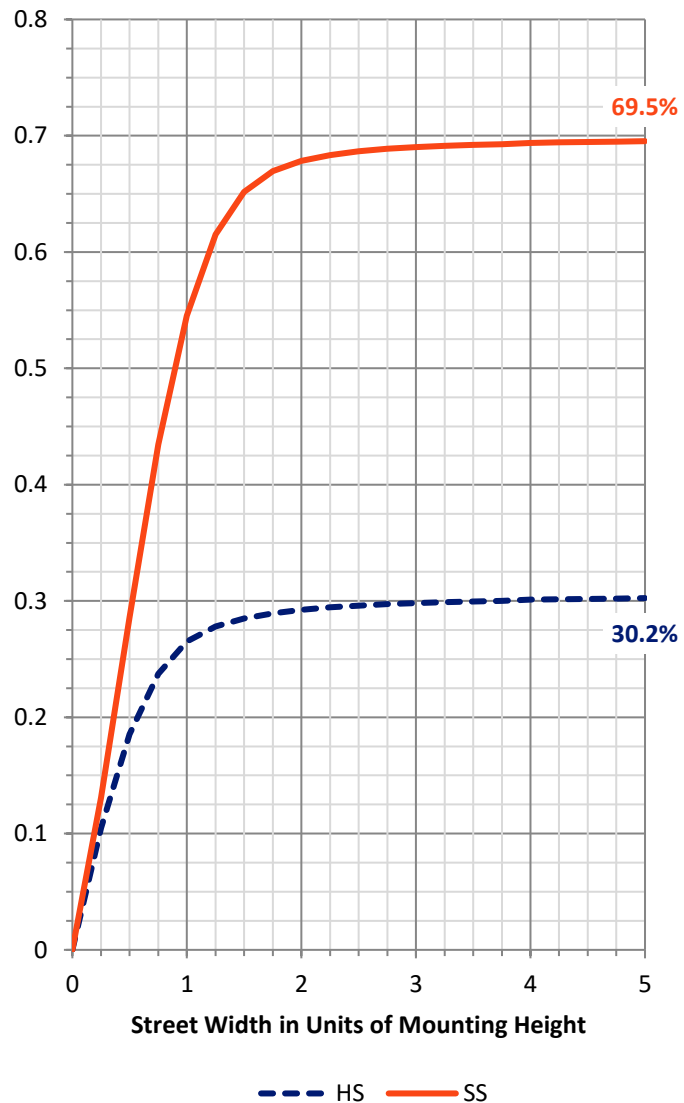
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5933.7	0.0	5933.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13550.3	0.0	13550.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	19484.0	0.0	19484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	1.5
10°-20°	1042.6	5.4
20°-30°	2095.4	10.8
30°-40°	3291.6	16.9
40°-50°	4009.8	20.6
50°-60°	3788.8	19.4
60°-70°	3128.7	16.1
70°-80°	1703.7	8.7
80°-90°	134.0	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°	19484.0	100.0
0°-180°	19484.0	100.0

Coefficient of Utilization



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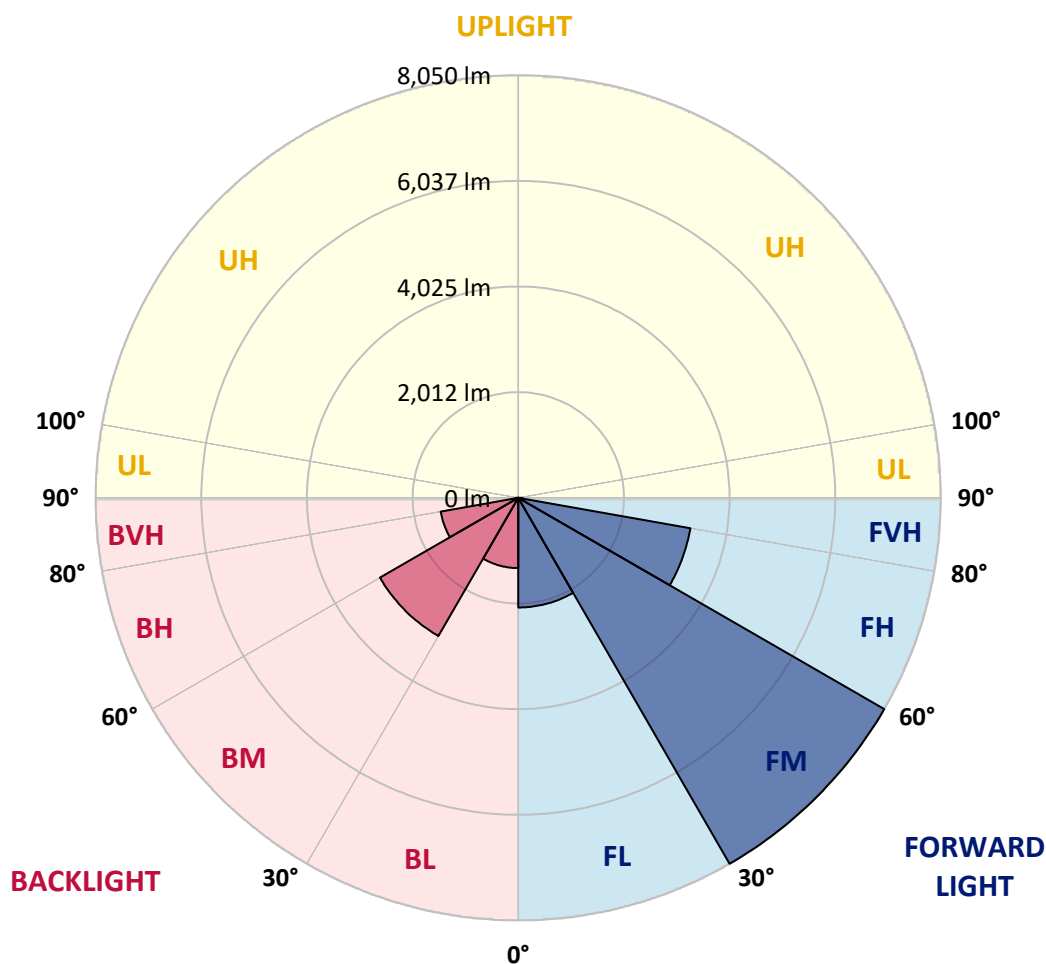
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2089.4	10.7			
FM	(30°-60°)	8049.7	41.3			
FH	(60°-80°)	3330.5	17.1			G2/5000
FVH	(80°-90°)	80.7	0.4			G1/100
BL	(0°-30°)	1338.1	6.9	B3/2500		
BM	(30°-60°)	3040.5	15.6	B3/5000		
BH	(60°-80°)	1501.8	7.7	B3/2500		G3/2500
BVH	(80°-90°)	53.2	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°	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8
2.5°	2928.1	2928.1	2950.8	2950.8	2931.0	2899.8	2891.3	2857.4	2826.3	2826.3	2829.1
5°	3208.2	3205.4	3222.4	3199.7	3151.6	3089.4	3046.9	2973.4	2911.2	2891.3	2888.5
7.5°	3550.5	3547.7	3556.2	3519.4	3428.9	3327.0	3242.2	3123.3	3021.5	2979.0	2967.7
10°	3932.5	3929.6	3921.1	3858.9	3737.2	3578.8	3451.5	3287.4	3134.6	3066.8	3052.6
12.5°	4371.0	4365.3	4345.5	4255.0	4088.1	3884.4	3700.5	3488.3	3284.6	3191.2	3160.1
15°	4860.4	4851.9	4815.1	4704.8	4481.3	4223.9	3986.2	3714.6	3465.7	3344.0	3301.6
17.5°	5375.3	5375.3	5318.7	5154.6	4905.7	4586.0	4291.8	3946.6	3655.2	3505.3	3454.3
20°	5898.7	5895.9	5825.1	5627.1	5332.9	4965.1	4591.6	4212.5	3850.4	3669.4	3607.1
22.5°	6450.4	6444.7	6357.0	6130.7	5779.9	5364.0	4928.3	4475.6	4065.4	3847.6	3768.4
25°	7084.1	7075.6	6968.1	6690.8	6275.0	5805.3	5307.4	4784.0	4311.6	4045.6	3952.3
27.5°	7757.4	7746.1	7618.8	7296.3	6840.8	6275.0	5726.1	5140.5	4583.2	4266.3	4161.6
30°	8357.2	8348.7	8210.1	7879.1	7355.7	6741.8	6125.0	5497.0	4868.9	4501.1	4371.0
32.5°	8809.8	8809.8	8685.4	8360.0	7816.8	7188.8	6526.7	5833.6	5165.9	4752.9	4600.1
35°	9084.3	9092.7	8985.2	8725.0	8212.9	7610.3	6942.6	6229.7	5482.8	5021.7	4857.6
37.5°	9123.9	9152.2	9089.9	8914.5	8487.3	7961.1	7350.0	6611.6	5811.0	5293.3	5109.4
40°	8940.0	8959.8	8962.6	8894.7	8600.5	8212.9	7709.3	7016.2	6159.0	5579.0	5366.8
42.5°	8572.2	8586.3	8611.8	8631.6	8518.4	8323.2	7983.7	7392.5	6529.6	5870.4	5621.4
45°	8096.9	8094.1	8136.5	8221.4	8215.7	8261.0	8136.5	7734.8	6914.3	6201.4	5904.3
47.5°	7386.8	7372.7	7522.6	7715.0	7811.2	8023.3	8139.3	8003.5	7333.0	6566.4	6226.9
50°	6275.0	6260.8	6589.0	7041.6	7324.6	7647.1	7983.7	8164.8	7771.6	6976.6	6577.7
52.5°	4922.6	4908.5	5324.4	6116.5	6733.3	7202.9	7669.7	8201.6	8187.4	7434.9	6973.7
55°	3660.9	3649.5	4054.1	4911.3	5910.0	6688.0	7284.9	8105.4	8577.8	7961.1	7454.7
57.5°	2580.1	2574.5	2925.3	3635.4	4851.9	6059.9	6914.3	7918.7	8937.1	8532.6	7997.9
60°	1810.6	1802.1	2056.8	2605.6	3669.4	5112.2	6546.6	7669.7	9205.9	9095.6	8575.0
62.5°	1219.3	1213.7	1394.7	1853.1	2605.6	3935.3	5989.2	7502.8	9358.7	9661.4	9157.8
65°	925.1	922.3	1004.3	1256.1	1844.6	2826.3	5103.7	7483.0	9378.5	10085.8	9652.9
67.5°	746.9	749.7	795.0	939.3	1275.9	2008.7	3957.9	7358.5	9273.8	10230.0	9893.4
70°	611.1	611.1	630.9	727.1	942.1	1355.1	2764.0	6792.7	8982.4	9853.8	9607.6
72.5°	466.8	469.6	531.9	588.5	710.1	950.6	1771.0	5621.4	8294.9	8688.2	8501.5
75°	370.6	367.8	404.6	483.8	551.7	679.0	1086.4	4031.5	7058.6	6789.9	6671.0
77.5°	265.9	263.1	291.4	359.3	418.7	480.9	647.9	2034.1	3839.1	3527.9	3440.2
80°	181.1	175.4	200.9	249.0	277.3	282.9	316.9	780.8	1674.8	1578.6	1558.8
82.5°	93.4	93.4	107.5	141.5	144.3	147.1	141.5	251.8	554.5	517.7	495.1
85°	36.8	36.8	39.6	48.1	48.1	50.9	50.9	65.1	59.4	56.6	53.8
87.5°	2.8	2.8	5.7	5.7	8.5	8.5	8.5	11.3	14.1	14.1	14.1
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°	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8	2800.8
2.5°	2823.4	2812.1	2775.4	2766.9	2761.2	2752.7	2755.5	2735.7	2727.3	2730.1	2718.8
5°	2874.4	2854.6	2809.3	2789.5	2783.8	2775.4	2783.8	2769.7	2755.5	2761.2	2755.5
7.5°	2945.1	2916.8	2860.2	2840.4	2837.6	2829.1	2840.4	2829.1	2817.8	2823.4	2812.1
10°	3018.7	2981.9	2919.6	2899.8	2899.8	2897.0	2908.3	2891.3	2880.0	2882.9	2877.2
12.5°	3126.2	3078.1	3010.2	2993.2	2984.7	2993.2	2996.0	2973.4	2953.6	2956.4	2947.9
15°	3256.3	3202.5	3129.0	3103.5	3097.9	3095.0	3083.7	3055.4	3030.0	3027.1	3018.7
17.5°	3397.8	3329.9	3242.2	3216.7	3191.2	3182.7	3154.5	3117.7	3078.1	3078.1	3066.8
20°	3533.6	3457.2	3352.5	3315.7	3278.9	3245.0	3196.9	3137.5	3086.6	3078.1	3066.8
22.5°	3680.7	3590.1	3468.5	3414.7	3349.7	3281.8	3199.7	3120.5	3055.4	3041.3	3032.8
25°	3844.8	3731.6	3587.3	3508.1	3403.4	3298.7	3177.1	3075.2	2998.9	2976.2	2970.6
27.5°	4025.8	3890.0	3714.6	3598.6	3445.9	3281.8	3126.2	3004.5	2911.2	2882.9	2874.4
30°	4209.7	4048.5	3830.6	3660.9	3445.9	3228.0	3032.8	2891.3	2783.8	2744.2	2738.6
32.5°	4393.6	4212.5	3935.3	3694.8	3411.9	3137.5	2911.2	2744.2	2622.6	2574.5	2585.8
35°	4614.3	4393.6	4031.5	3709.0	3355.3	3027.1	2772.5	2577.3	2452.8	2410.4	2418.9
37.5°	4843.4	4574.7	4107.9	3697.6	3276.1	2902.7	2616.9	2427.4	2271.8	2198.2	2206.7
40°	5041.5	4738.8	4161.6	3658.0	3174.3	2761.2	2464.2	2215.2	2000.2	1929.5	1921.0
42.5°	5228.2	4860.4	4189.9	3598.6	3058.3	2597.1	2246.3	1926.6	1711.6	1623.9	1626.7
45°	5423.4	4979.2	4178.6	3519.4	2914.0	2404.7	1966.2	1643.7	1454.2	1374.9	1377.8
47.5°	5646.9	5106.5	4167.3	3434.5	2738.6	2155.8	1697.5	1394.7	1230.7	1174.1	1168.4
50°	5884.5	5248.0	4153.1	3329.9	2543.4	1878.5	1431.5	1162.8	1024.1	987.4	978.9
52.5°	6153.3	5400.8	4144.6	3205.4	2308.6	1584.3	1193.9	959.1	865.7	840.2	837.4
55°	6475.8	5579.0	4156.0	3055.4	2025.6	1307.0	993.0	826.1	763.9	749.7	746.9
57.5°	6869.1	5808.2	4189.9	2880.0	1728.6	1066.6	845.9	744.1	704.4	693.1	693.1
60°	7296.3	6068.4	4252.1	2682.0	1431.5	879.9	749.7	679.0	662.0	676.2	676.2
62.5°	7757.4	6374.0	4362.5	2441.5	1154.3	744.1	673.3	625.2	613.9	642.2	645.0
65°	8184.6	6671.0	4433.2	2152.9	916.6	645.0	613.9	571.5	577.1	605.4	602.6
67.5°	8447.7	6917.2	4334.2	1790.8	727.1	571.5	551.7	514.9	529.0	551.7	554.5
70°	8286.5	6778.5	3844.8	1352.3	568.7	497.9	483.8	461.1	472.5	500.8	512.1
72.5°	7497.1	6071.3	2990.4	913.8	458.3	418.7	424.4	413.0	427.2	452.7	478.1
75°	6085.4	4588.8	2005.8	585.6	362.1	356.5	365.0	356.5	362.1	387.6	401.7
77.5°	3177.1	2237.8	998.7	365.0	268.8	277.3	291.4	294.2	311.2	316.9	322.5
80°	1482.5	1007.2	415.9	203.7	178.2	195.2	223.5	226.3	232.0	240.5	243.3
82.5°	483.8	302.7	192.4	110.3	101.8	110.3	144.3	172.6	175.4	192.4	192.4
85°	50.9	31.1	42.4	45.3	39.6	48.1	65.1	62.2	28.3	17.0	17.0
87.5°	14.1	11.3	14.1	14.1	11.3	11.3	8.5	2.8	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)