

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: P286949

Luminaire Tested: **USSL-C02-D-U-T2-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C02-D-U-T2-BZ-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20448 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 153
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: 28.75 FT



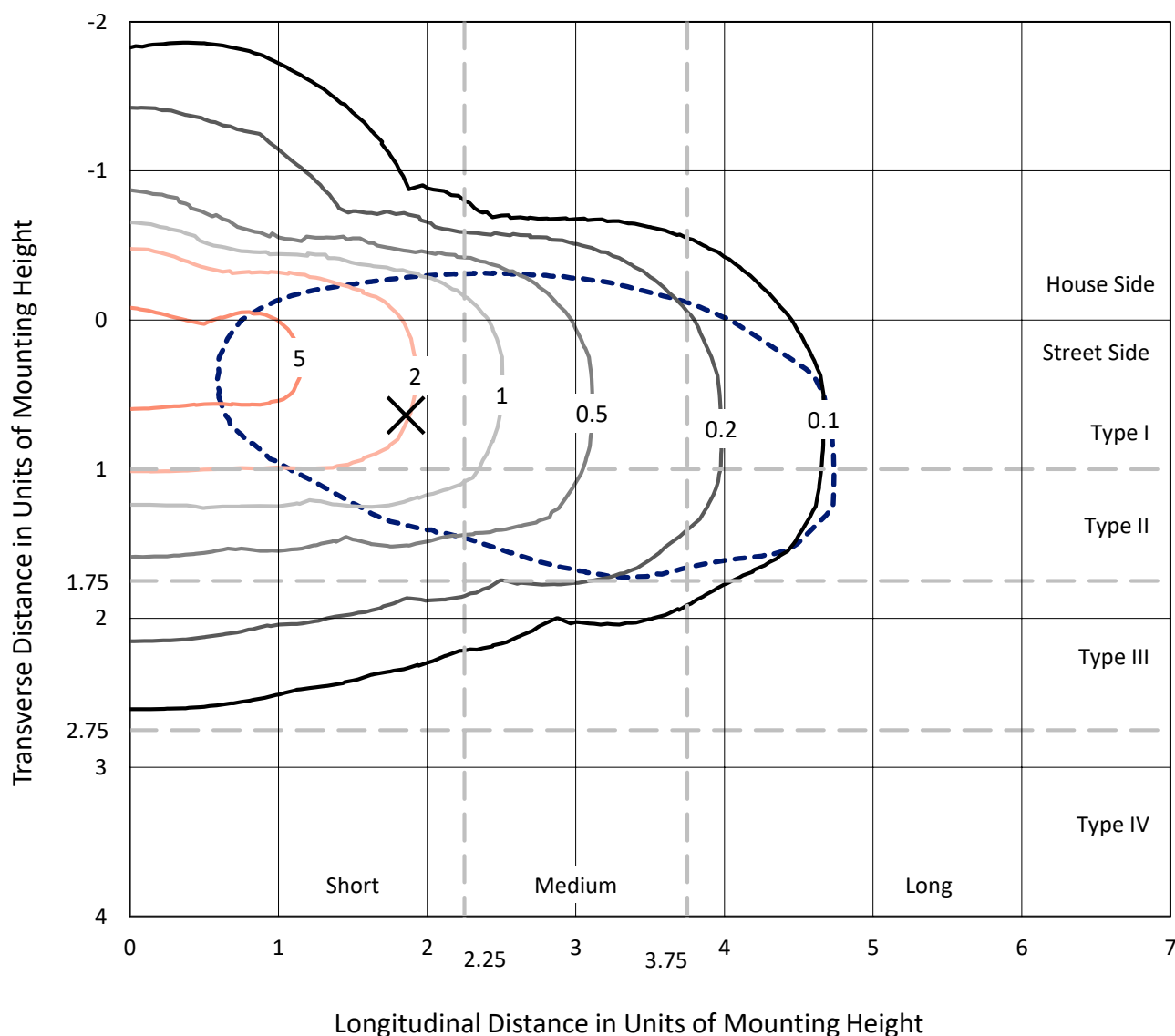
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

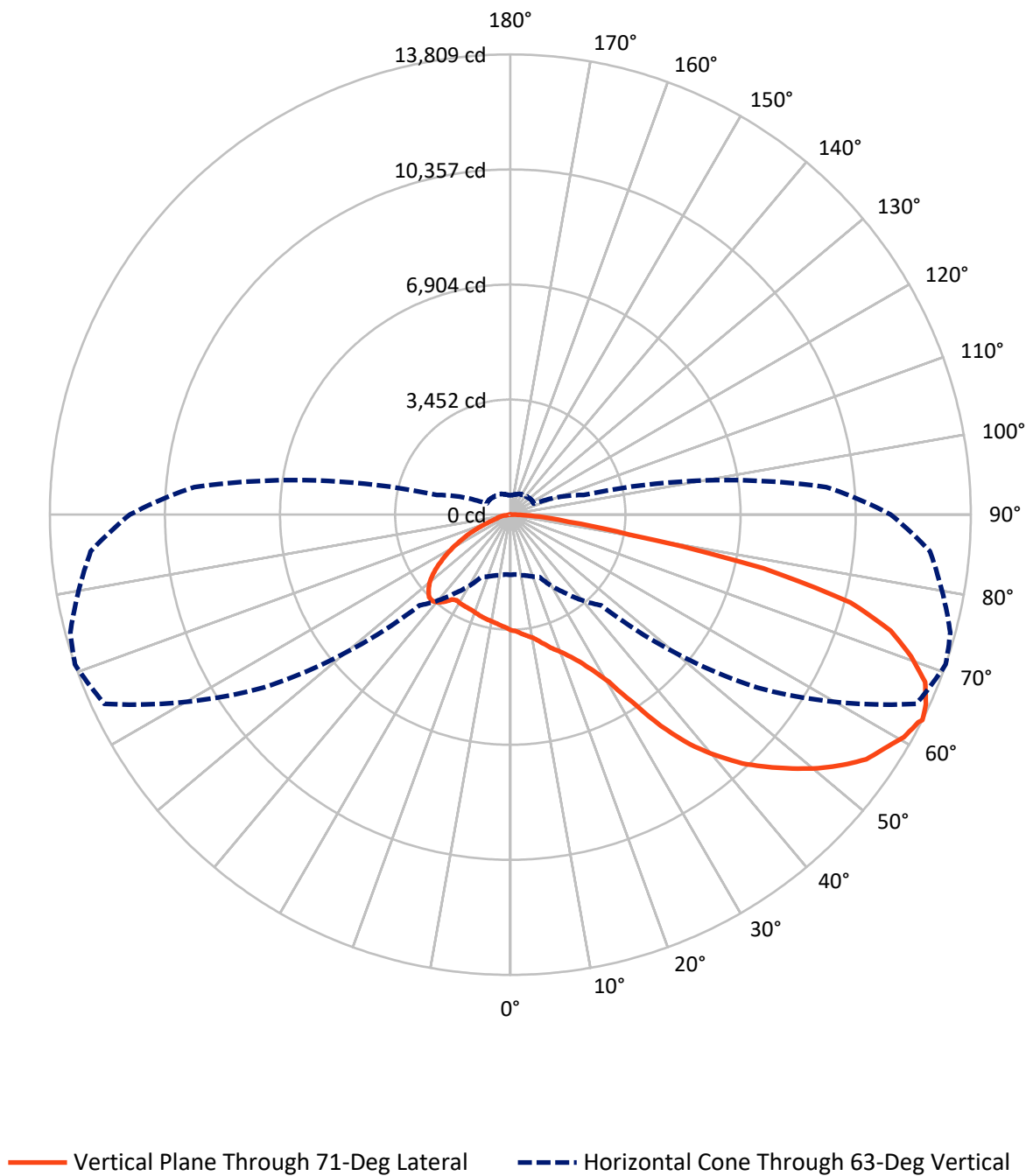


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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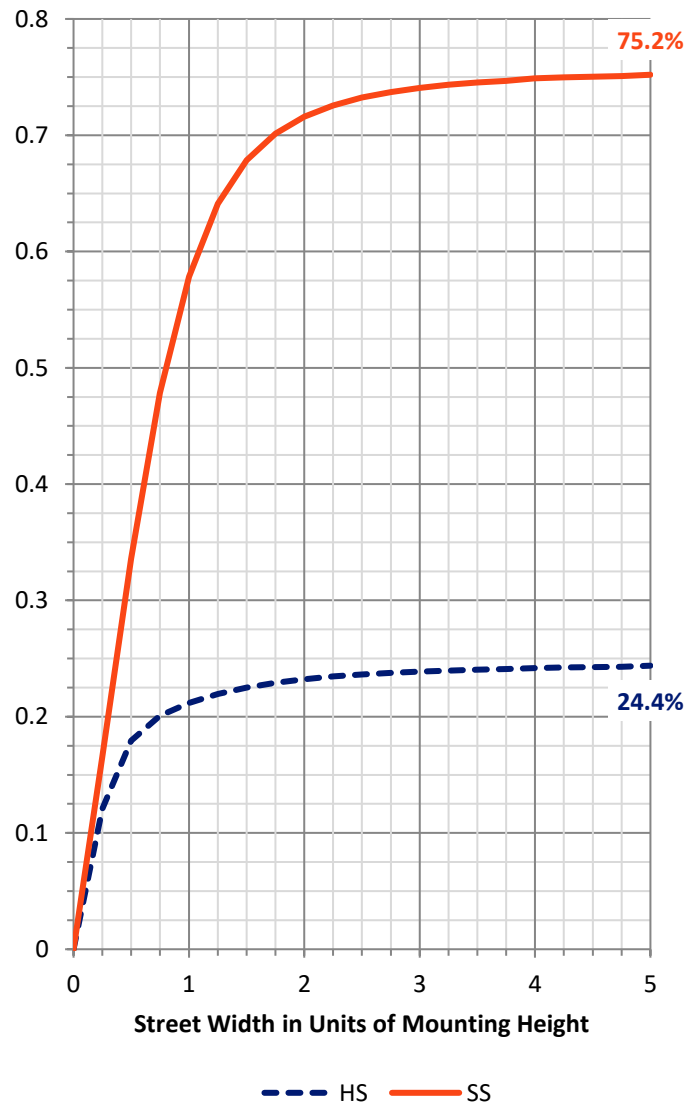
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5071.4	0.0	5071.4
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	15376.6	0.0	15376.6
	% Fixture	75.2	0.0	75.2
Total	Lumens	20448.0	0.0	20448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.6
10°-20°	1017.6	5.0
20°-30°	1718.2	8.4
30°-40°	2582.2	12.6
40°-50°	3549.4	17.4
50°-60°	4127.1	20.2
60°-70°	4103.2	20.1
70°-80°	2589.8	12.7
80°-90°	426.7	2.1
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°	20448.0	100.0
0°-180°	20448.0	100.0

Coefficient of Utilization



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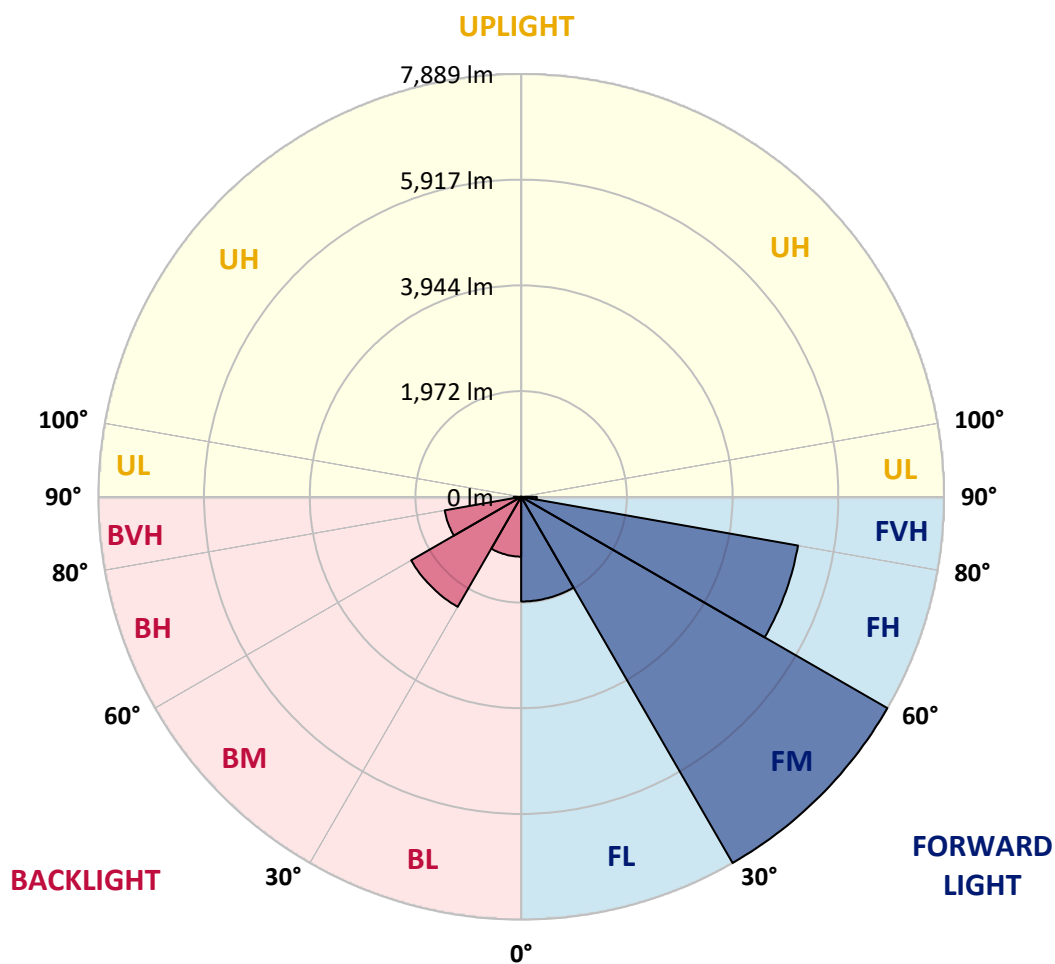
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1953.3	9.6			
FM	(30°-60°)	7888.8	38.6			
FH	(60°-80°)	5244.2	25.6			G3/7500
FVH	(80°-90°)	290.3	1.4			G3/500
BL	(0°-30°)	1116.2	5.5	B3/2500		
BM	(30°-60°)	2369.9	11.6	B2/2500		
BH	(60°-80°)	1448.8	7.1	B3/2500		G3/2500
BVH	(80°-90°)	136.4	0.7			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9
2.5°	3716.4	3710.4	3702.4	3651.5	3642.6	3611.6	3578.7	3542.8	3502.8	3507.8	3458.9
5°	3925.0	3912.0	3907.0	3831.2	3775.3	3741.4	3696.4	3614.6	3591.7	3573.7	3478.9
7.5°	4092.6	4098.6	4087.6	4015.8	3959.9	3904.0	3824.2	3703.4	3673.5	3635.6	3541.8
10°	4228.4	4243.3	4235.3	4153.5	4105.6	4050.7	3953.9	3830.2	3761.3	3706.4	3556.7
12.5°	4392.0	4383.0	4385.0	4307.2	4265.3	4190.4	4119.6	3978.9	3900.0	3824.2	3625.6
15°	4596.6	4584.6	4569.7	4494.8	4431.9	4388.0	4312.2	4155.5	4069.7	3997.8	3735.4
17.5°	4778.2	4736.3	4729.3	4646.5	4596.6	4537.7	4485.8	4352.1	4245.3	4152.5	3856.1
20°	4900.0	4879.0	4851.1	4803.2	4782.2	4738.3	4673.4	4526.7	4407.0	4312.2	3958.9
22.5°	4981.8	4969.8	4969.8	4954.9	4964.9	4946.9	4895.0	4756.3	4633.5	4498.8	4116.6
25°	5005.8	4968.8	5021.7	5079.6	5149.5	5180.4	5132.5	5036.7	4914.0	4782.2	4320.2
27.5°	5022.7	5016.7	5082.6	5181.4	5358.0	5428.9	5428.9	5375.0	5296.2	5140.5	4615.6
30°	5024.7	5026.7	5115.5	5268.2	5506.7	5703.3	5713.3	5857.0	5816.1	5696.4	5067.6
32.5°	4882.0	4877.0	5010.8	5277.2	5621.5	5934.9	6097.5	6491.7	6680.3	6688.3	6051.6
35°	4593.6	4630.5	4841.1	5189.4	5702.3	6198.3	6574.6	7377.9	7786.1	7776.1	7012.7
37.5°	4366.1	4396.0	4638.5	5095.6	5755.2	6438.8	7110.5	8361.9	8739.1	8706.2	7778.1
40°	4159.5	4194.4	4435.9	4931.9	5737.3	6712.3	7706.2	9213.2	9499.6	9453.7	8498.6
42.5°	3912.0	3937.9	4177.5	4703.4	5686.4	6899.9	8242.2	9990.6	10205.1	10081.4	9062.5
45°	3666.5	3685.5	3946.9	4404.0	5525.7	7023.6	8777.1	10697.1	10796.9	10698.1	9685.2
47.5°	3355.1	3374.1	3676.5	4142.5	5249.3	7019.6	9277.0	11292.9	11386.7	11255.0	10154.2
50°	2579.7	2598.7	3218.4	3875.1	4864.1	6924.8	9677.2	11844.8	11961.5	11768.9	10683.2
52.5°	2344.2	2353.2	2521.8	3542.8	4372.1	6660.4	9968.6	12338.8	12481.5	12271.9	11142.2
55°	2236.4	2228.4	2297.3	2853.2	3992.8	6239.2	10190.2	12806.8	12952.5	12742.0	11551.4
57.5°	2066.8	2079.7	2196.5	2443.0	3649.5	5470.8	10111.3	13245.9	13231.9	13070.3	11953.6
60°	1945.0	1951.0	2066.8	2242.4	3238.4	4596.6	9778.0	13489.4	13556.3	13340.7	12300.9
62.5°	1818.3	1826.3	1925.1	2084.7	2918.0	3954.9	9243.1	13475.5	13728.9	13596.2	12615.2
63°	1802.3	1800.3	1890.1	2063.8	2869.1	3846.1	9046.5	13431.5	13808.8	13659.1	12630.2
65°	1676.6	1684.6	1780.4	1940.0	2659.6	3547.7	8490.6	13135.1	13697.0	13710.0	12767.9
67.5°	1493.9	1505.9	1587.8	1735.5	2259.4	3111.6	7031.6	12964.5	13413.6	13492.4	12594.3
70°	1278.4	1291.4	1377.2	1513.9	1915.1	2656.6	5226.3	12224.0	12747.9	12888.7	11809.9
72.5°	1012.9	1029.9	1138.7	1276.4	1570.8	2182.5	3678.5	11014.5	11929.6	11958.6	10715.1
75°	660.6	673.6	831.3	1023.9	1270.4	1728.5	2430.0	8432.8	10536.5	10714.1	9184.2
77.5°	390.2	408.2	486.0	563.8	804.4	1302.3	1578.8	4490.8	7761.1	8327.0	7247.2
80°	105.8	116.8	368.2	430.1	513.9	561.9	972.0	2478.9	3592.7	4561.7	4881.0
82.5°	54.9	67.9	205.6	276.4	294.4	285.4	449.1	1152.6	1756.4	2057.8	2451.0
85°	24.9	29.9	67.9	100.8	81.8	77.8	149.7	601.8	982.0	1139.7	1232.5
87.5°	9.0	11.0	24.0	36.9	22.0	17.0	21.0	181.6	379.2	479.0	435.1
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°	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9	3470.9
2.5°	3424.0	3453.9	3414.0	3368.1	3336.2	3318.2	3303.2	3269.3	3279.3	3292.3	3290.3
5°	3456.9	3460.9	3368.1	3309.2	3239.4	3199.5	3184.5	3126.6	3132.6	3138.6	3137.6
7.5°	3477.9	3441.0	3328.2	3242.4	3168.5	3107.6	3050.8	2992.9	2981.9	2992.9	3001.9
10°	3483.9	3428.0	3300.3	3180.5	3080.7	2993.9	2944.0	2853.2	2837.2	2859.2	2873.1
12.5°	3538.8	3446.0	3280.3	3139.6	3022.8	2908.1	2821.2	2720.4	2672.5	2690.5	2707.5
15°	3606.6	3477.9	3263.3	3087.7	2932.0	2803.3	2689.5	2580.7	2520.8	2544.8	2556.8
17.5°	3688.5	3536.8	3262.3	3002.9	2835.2	2679.5	2564.8	2447.0	2336.2	2375.1	2362.2
20°	3779.3	3587.7	3256.3	2924.0	2716.4	2528.8	2376.1	2298.3	2183.5	2184.5	2167.6
22.5°	3887.1	3657.5	3249.4	2849.2	2571.7	2382.1	2191.5	2101.7	2007.9	1973.0	1962.0
25°	4056.7	3769.3	3261.3	2798.3	2447.0	2190.5	1967.0	1851.2	1811.3	1767.4	1748.4
27.5°	4287.2	3925.0	3287.3	2733.4	2290.3	1987.9	1713.5	1601.7	1573.8	1540.9	1518.9
30°	4625.5	4147.5	3318.2	2659.6	2108.7	1713.5	1461.0	1380.2	1335.3	1318.3	1305.3
32.5°	5484.8	4773.2	3342.2	2562.8	1920.1	1449.0	1266.4	1185.6	1122.7	1092.8	1095.8
35°	6366.0	5531.7	3511.8	2447.0	1688.5	1228.5	1095.8	996.0	919.1	899.2	885.2
37.5°	7056.6	6155.4	3900.0	2330.2	1467.0	1100.7	928.1	841.3	776.4	771.4	802.4
40°	7708.2	6728.2	4220.4	2195.5	1237.5	955.0	758.4	723.5	694.6	701.6	743.5
42.5°	8249.1	7242.2	4483.8	2001.9	1051.8	790.4	647.7	684.6	693.6	702.6	705.6
45°	8779.1	7647.4	4626.5	1748.4	888.2	657.7	635.7	704.6	719.5	732.5	716.5
47.5°	9325.9	8104.4	4624.5	1437.1	765.4	642.7	660.6	704.6	730.5	746.5	741.5
50°	9763.0	8443.7	4565.7	1130.7	734.5	677.6	673.6	675.6	717.5	728.5	729.5
52.5°	10177.2	8764.1	4323.2	929.1	777.4	717.5	688.6	664.6	682.6	708.6	679.6
55°	10581.4	9042.5	3893.0	874.2	798.4	751.5	719.5	677.6	659.7	653.7	663.6
57.5°	10913.7	9274.0	3388.1	849.3	804.4	754.5	772.4	676.6	656.7	610.8	605.8
60°	11238.0	9493.6	2891.1	814.3	799.4	748.5	720.5	693.6	645.7	576.8	551.9
62.5°	11439.6	9561.5	2371.2	784.4	777.4	741.5	702.6	689.6	634.7	581.8	574.8
63°	11410.7	9513.6	2280.3	779.4	772.4	736.5	703.6	684.6	629.7	587.8	584.8
65°	11480.5	9239.1	1879.2	748.5	751.5	722.5	688.6	654.7	584.8	554.9	549.9
67.5°	11149.2	8738.1	1356.2	691.6	719.5	700.6	658.7	596.8	531.9	493.0	491.0
70°	10280.0	7789.1	932.1	589.8	668.6	669.6	643.7	563.8	493.0	449.1	455.1
72.5°	9051.5	6806.1	600.8	459.1	574.8	615.7	600.8	532.9	440.1	360.3	354.3
75°	7733.2	5550.7	443.1	370.2	424.1	547.9	524.9	434.1	369.2	318.3	314.4
77.5°	5804.1	4013.8	392.2	316.4	315.4	371.2	432.1	427.1	438.1	526.9	514.9
80°	4017.8	2832.2	312.4	256.5	192.6	234.5	364.3	452.1	563.8	327.3	307.4
82.5°	2325.2	1537.9	101.8	80.8	117.8	151.7	267.5	561.9	373.2	195.6	175.6
85°	1094.8	583.8	43.9	24.9	34.9	50.9	150.7	475.0	238.5	97.8	18.0
87.5°	339.3	160.7	10.0	8.0	9.0	11.0	63.9	249.5	163.7	11.0	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)