

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-AP-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-AP-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21672.8 lumens
Efficiency: N/A
Efficacy: 141.7 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



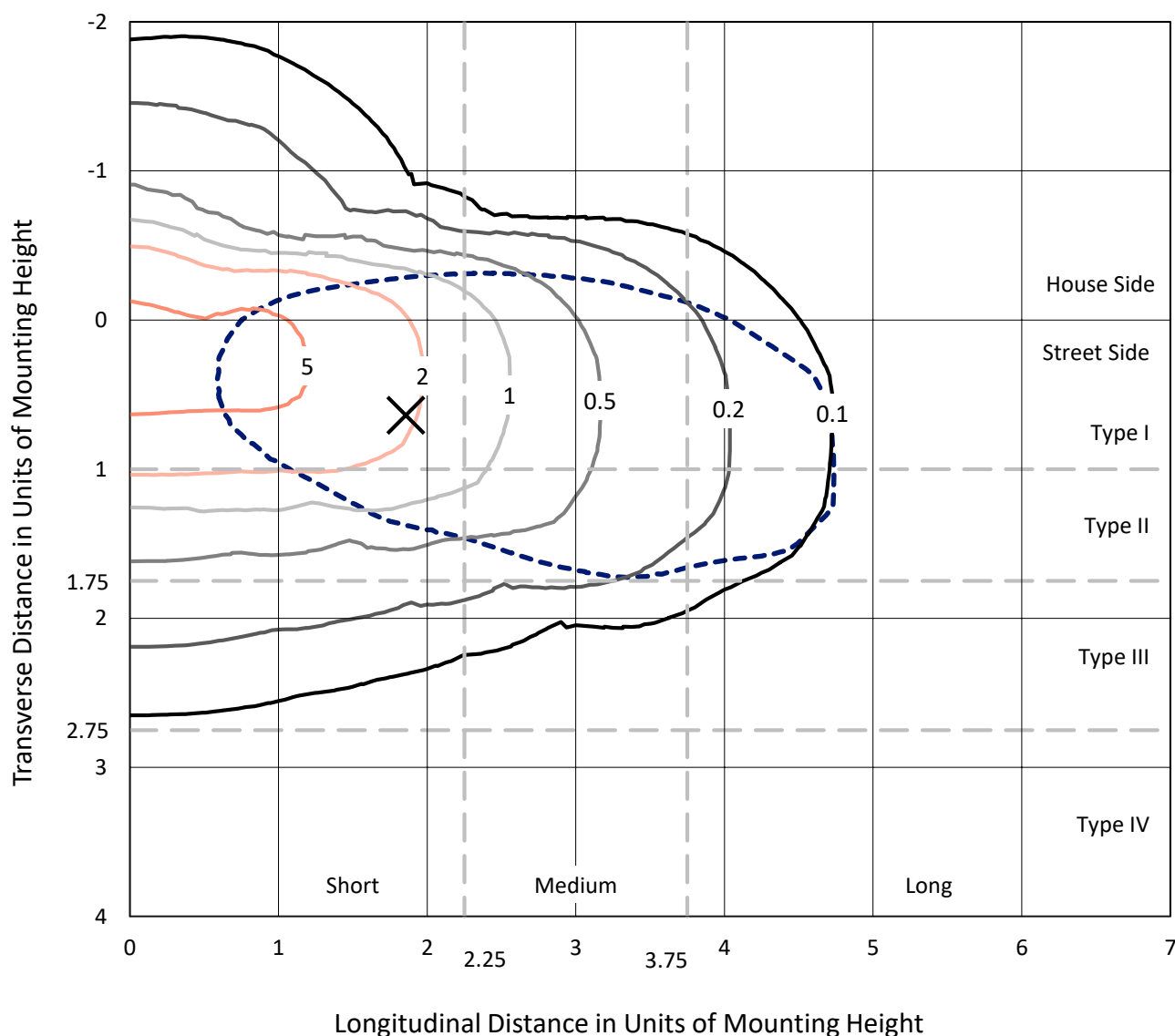
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

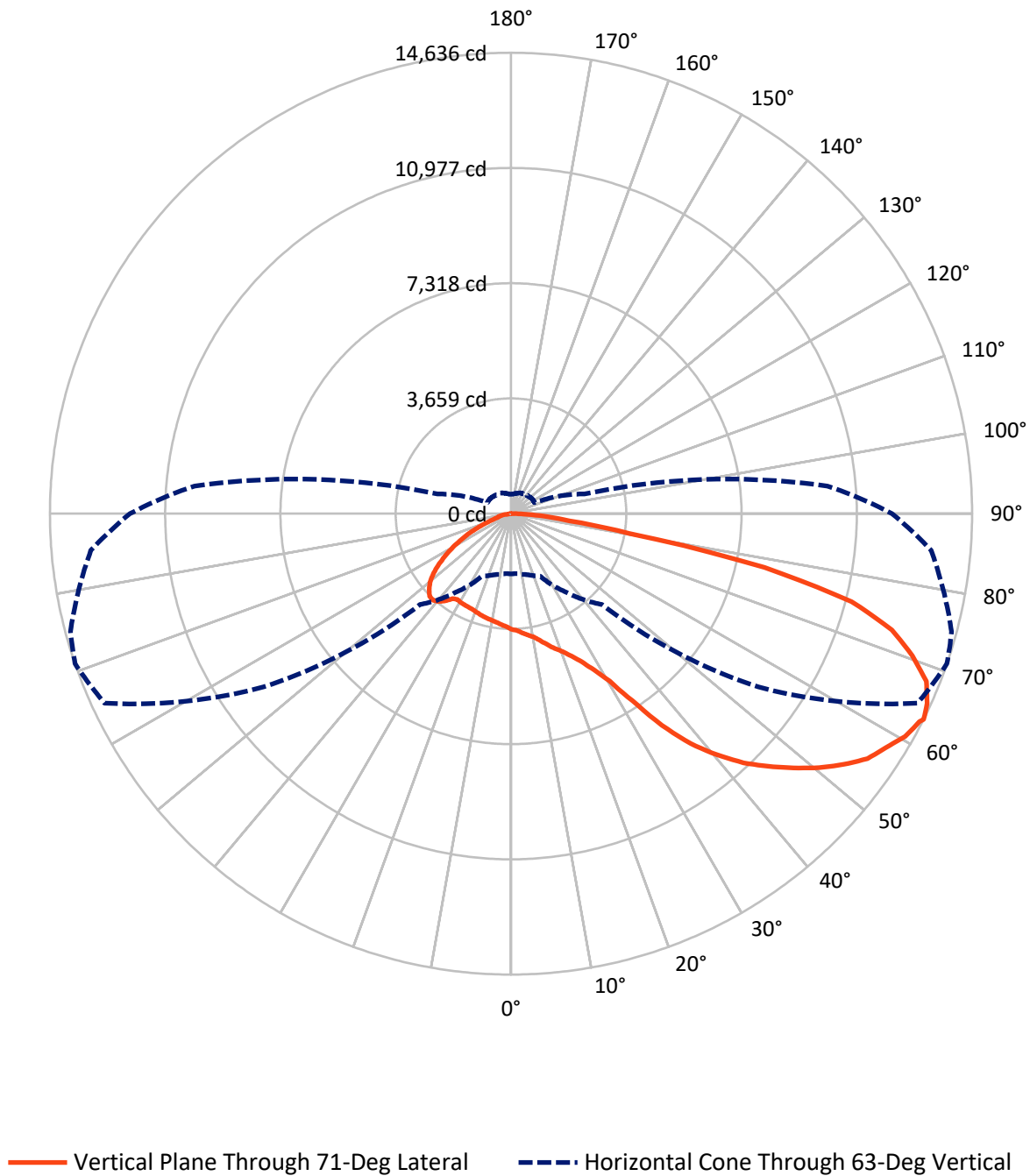


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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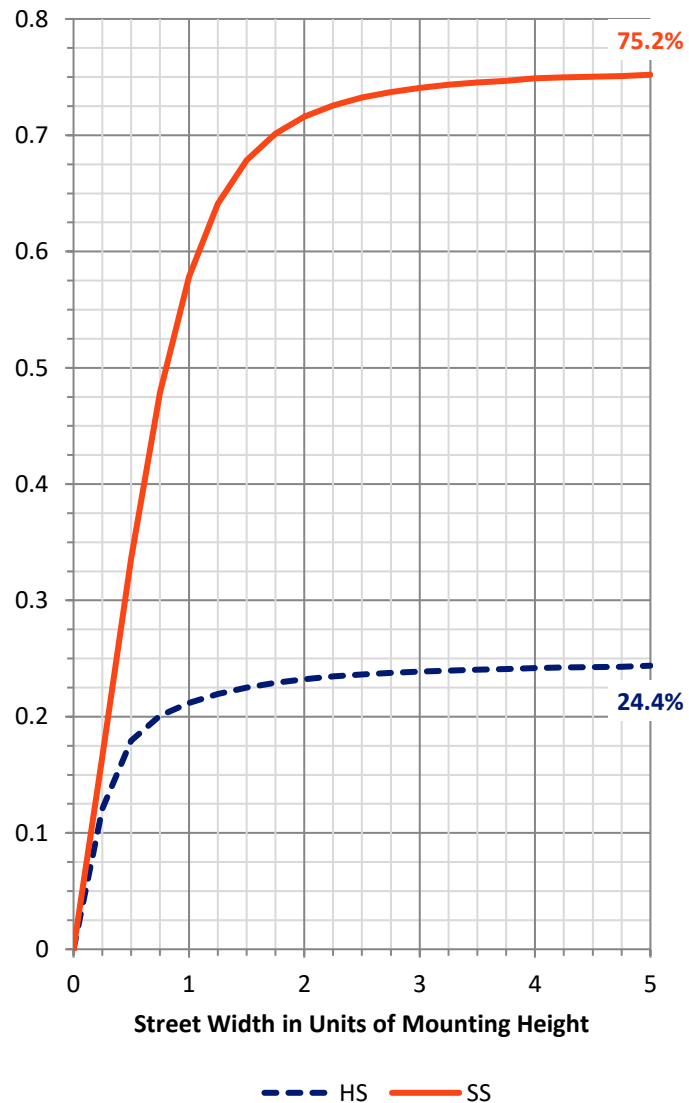
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5375.1	0.0	5375.1
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	16297.7	0.0	16297.7
	% Fixture	75.2	0.0	75.2
Total	Lumens	21672.8	0.0	21672.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.7	1.6
10°-20°	1078.5	5.0
20°-30°	1821.1	8.4
30°-40°	2736.9	12.6
40°-50°	3762.0	17.4
50°-60°	4374.3	20.2
60°-70°	4349.0	20.1
70°-80°	2745.0	12.7
80°-90°	452.2	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°	21672.8	100.0
0°-180°	21672.8	100.0

Coefficient of Utilization



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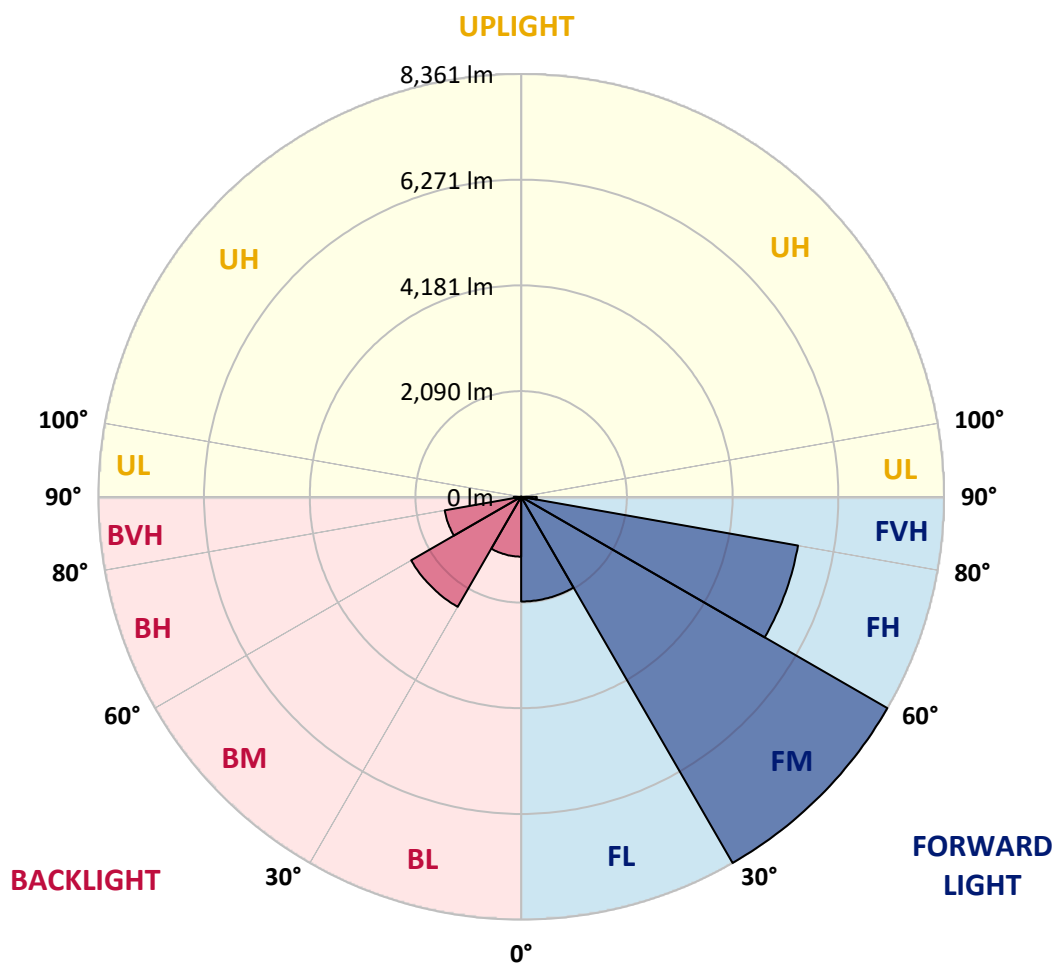
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.3	9.6			
FM	(30°-60°)	8361.4	38.6			
FH	(60°-80°)	5558.3	25.6			G3/7500
FVH	(80°-90°)	307.6	1.4			G3/500
BL	(0°-30°)	1183.1	5.5	B3/2500		
BM	(30°-60°)	2511.9	11.6	B3/5000		
BH	(60°-80°)	1535.6	7.1	B3/2500		G3/2500
BVH	(80°-90°)	144.6	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°	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8
2.5°	3939.0	3932.7	3924.2	3870.2	3860.8	3827.9	3793.1	3755.0	3712.6	3717.9	3666.1
5°	4160.1	4146.3	4141.0	4060.7	4001.4	3965.5	3917.8	3831.1	3806.8	3787.8	3687.3
7.5°	4337.7	4344.1	4332.4	4256.3	4197.1	4137.8	4053.3	3925.2	3893.5	3853.4	3754.0
10°	4481.7	4497.5	4489.0	4402.3	4351.5	4293.3	4190.7	4059.6	3986.6	3928.4	3769.7
12.5°	4655.1	4645.5	4647.7	4565.2	4520.8	4441.4	4366.4	4217.2	4133.6	4053.3	3842.8
15°	4871.9	4859.2	4843.4	4764.0	4697.4	4650.8	4570.5	4404.4	4313.5	4237.3	3959.2
17.5°	5064.4	5020.0	5012.6	4924.8	4871.9	4809.5	4754.5	4612.8	4499.6	4401.2	4087.1
20°	5193.5	5171.3	5141.7	5090.9	5068.7	5022.1	4953.3	4797.8	4671.0	4570.5	4196.0
22.5°	5280.2	5267.5	5267.5	5251.7	5262.3	5243.2	5188.2	5041.2	4911.0	4768.3	4363.2
25°	5305.6	5266.4	5322.5	5383.9	5458.0	5490.7	5439.9	5338.4	5208.3	5068.7	4579.0
27.5°	5323.6	5317.2	5387.0	5491.8	5678.9	5754.1	5754.1	5697.0	5613.4	5448.4	4892.1
30°	5325.7	5327.8	5421.9	5583.8	5836.6	6044.9	6055.5	6207.8	6164.5	6037.6	5371.1
32.5°	5174.4	5169.1	5310.9	5593.3	5958.2	6290.4	6462.7	6880.6	7080.4	7088.9	6414.1
35°	4868.8	4907.9	5131.1	5500.2	6043.9	6569.6	6968.4	7819.8	8252.5	8241.9	7432.8
37.5°	4627.6	4659.3	4916.3	5400.8	6099.9	6824.5	7536.4	8862.8	9262.6	9227.7	8244.0
40°	4408.7	4445.6	4701.6	5227.3	6081.0	7114.4	8167.8	9765.1	10068.6	10020.0	9007.7
42.5°	4146.3	4173.8	4427.7	4985.1	6027.0	7313.2	8735.9	10589.0	10816.4	10685.3	9605.3
45°	3886.1	3906.3	4183.3	4667.8	5856.7	7444.3	9302.8	11337.9	11443.6	11338.9	10265.3
47.5°	3556.1	3576.2	3896.7	4390.6	5563.7	7440.1	9832.7	11969.3	12068.8	11929.2	10762.4
50°	2734.2	2754.4	3411.2	4107.2	5155.5	7339.6	10256.9	12554.3	12678.0	12473.9	11323.1
52.5°	2484.6	2494.2	2672.9	3755.0	4634.0	7059.4	10565.7	13077.9	13229.1	13007.0	11809.6
55°	2370.4	2361.9	2434.9	3024.1	4232.0	6612.9	10800.6	13573.9	13728.4	13505.2	12243.3
57.5°	2190.6	2204.3	2328.1	2589.3	3868.1	5798.5	10717.0	14039.3	14024.5	13853.2	12669.6
60°	2061.5	2067.9	2190.6	2376.7	3432.4	4871.9	10363.7	14297.4	14368.3	14139.8	13037.7
62.5°	1927.2	1935.7	2040.4	2209.6	3092.8	4191.8	9796.8	14282.7	14551.3	14410.6	13370.9
63°	1910.3	1908.1	2003.3	2187.4	3041.0	4076.5	9588.4	14236.0	14635.9	14477.3	13386.7
65°	1777.0	1785.5	1887.0	2056.2	2818.9	3760.2	8999.2	13921.9	14517.5	14531.2	13532.7
67.5°	1583.4	1596.1	1682.9	1839.5	2394.7	3298.0	7452.8	13741.1	14217.1	14300.6	13348.7
70°	1355.0	1368.8	1459.7	1604.6	2029.8	2815.7	5539.4	12956.2	13511.5	13660.7	12517.3
72.5°	1073.6	1091.6	1206.9	1352.9	1664.9	2313.2	3898.8	11674.3	12644.2	12674.9	11356.9
75°	700.2	713.9	881.1	1085.2	1346.5	1832.0	2575.6	8937.9	11167.6	11355.9	9734.3
77.5°	413.6	432.7	515.1	597.6	852.6	1380.3	1673.4	4759.8	8226.0	8825.8	7681.3
80°	112.1	123.8	390.3	455.9	544.7	595.6	1030.2	2627.4	3807.9	4834.9	5173.4
82.5°	58.2	72.0	217.9	293.0	312.0	302.5	476.0	1221.6	1861.6	2181.1	2597.8
85°	26.4	31.7	72.0	106.8	86.7	82.5	158.7	637.8	1040.8	1208.0	1306.3
87.5°	9.5	11.7	25.4	39.1	23.3	18.0	22.3	192.5	401.9	507.7	461.2
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°	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8	3678.8
2.5°	3629.1	3660.8	3618.5	3569.8	3536.0	3517.0	3501.1	3465.1	3475.7	3489.5	3487.4
5°	3664.0	3668.2	3569.8	3507.4	3433.4	3391.2	3375.3	3313.9	3320.2	3326.6	3325.5
7.5°	3686.2	3647.1	3527.6	3436.6	3358.3	3293.7	3233.5	3172.2	3160.5	3172.2	3181.7
10°	3692.6	3633.3	3498.0	3371.0	3265.2	3173.2	3120.3	3024.1	3007.1	3030.5	3045.2
12.5°	3750.8	3652.4	3476.8	3327.7	3203.9	3082.3	2990.2	2883.4	2832.6	2851.7	2869.7
15°	3822.6	3686.2	3458.8	3272.7	3107.6	2971.2	2850.6	2735.3	2671.8	2697.2	2710.0
17.5°	3909.4	3748.7	3457.7	3182.8	3005.0	2840.0	2718.4	2593.6	2476.1	2517.4	2503.7
20°	4005.7	3802.6	3451.4	3099.1	2879.1	2680.3	2518.4	2436.0	2314.3	2315.4	2297.4
22.5°	4119.9	3876.6	3444.0	3019.9	2725.7	2524.8	2322.8	2227.6	2128.2	2091.2	2079.5
25°	4299.7	3995.1	3456.7	2965.9	2593.6	2321.7	2084.8	1962.1	1919.8	1873.3	1853.1
27.5°	4544.0	4160.1	3484.2	2897.1	2427.5	2107.0	1816.1	1697.6	1668.1	1633.2	1609.9
30°	4902.6	4395.9	3517.0	2818.9	2235.0	1816.1	1548.5	1462.9	1415.3	1397.3	1383.5
32.5°	5813.3	5059.1	3542.4	2716.3	2035.1	1535.8	1342.3	1256.6	1189.9	1158.3	1161.4
35°	6747.3	5863.0	3722.2	2593.6	1789.6	1302.1	1161.4	1055.7	974.2	953.1	938.2
37.5°	7479.3	6524.1	4133.6	2469.8	1554.9	1166.6	983.7	891.7	822.9	817.6	850.5
40°	8169.9	7131.2	4473.2	2327.0	1311.6	1012.2	803.8	766.8	736.2	743.6	788.0
42.5°	8743.2	7676.0	4752.4	2121.8	1114.8	837.7	686.5	725.6	735.1	744.7	747.9
45°	9305.0	8105.5	4903.6	1853.1	941.4	697.1	673.8	746.8	762.6	776.4	759.4
47.5°	9884.5	8589.9	4901.5	1523.2	811.2	681.2	700.2	746.8	774.3	791.2	785.9
50°	10347.8	8949.5	4839.2	1198.4	778.5	718.2	713.9	716.1	760.5	772.1	773.2
52.5°	10786.8	9289.1	4582.2	984.8	824.0	760.5	729.8	704.4	723.5	751.0	720.3
55°	11215.2	9584.1	4126.2	926.6	846.2	796.5	762.6	718.2	699.2	692.9	703.3
57.5°	11567.4	9829.5	3591.0	900.2	852.6	799.7	818.7	717.1	696.0	647.4	642.1
60°	11911.2	10062.3	3064.3	863.1	847.3	793.3	763.7	735.1	684.4	611.4	585.0
62.5°	12124.8	10134.2	2513.2	831.4	824.0	785.9	744.7	730.9	672.7	616.6	609.2
63°	12094.2	10083.5	2416.9	826.1	818.7	780.6	745.7	725.6	667.4	623.0	619.8
65°	12168.2	9792.5	1991.8	793.3	796.5	765.8	729.8	693.9	619.8	588.1	582.8
67.5°	11817.0	9261.5	1437.4	733.0	762.6	742.6	698.2	632.5	563.8	522.5	520.4
70°	10895.8	8255.7	987.9	625.1	708.6	709.7	682.3	597.6	522.5	476.0	482.4
72.5°	9593.7	7213.8	636.8	486.6	609.2	652.6	636.8	564.8	466.5	381.9	375.5
75°	8196.4	5883.2	469.6	392.4	449.5	580.7	556.3	460.1	391.3	337.4	333.2
77.5°	6151.8	4254.2	415.7	335.4	334.3	393.4	458.0	452.7	464.3	558.5	545.7
80°	4258.5	3001.8	331.1	271.9	204.1	248.5	386.1	479.2	597.6	346.9	325.8
82.5°	2464.5	1630.0	107.9	85.6	124.9	160.8	283.5	595.6	395.6	207.3	186.1
85°	1160.4	618.8	46.5	26.4	37.0	53.9	159.7	503.5	252.8	103.7	19.1
87.5°	359.6	170.3	10.6	8.5	9.5	11.7	67.7	264.4	173.5	11.7	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)