

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: P286948

Luminaire Tested: **USSL-C029-D-U-T2-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286948
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-C029-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: 18531.3 lumens
Efficiency: N/A
Efficacy: 141.5 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): 131
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



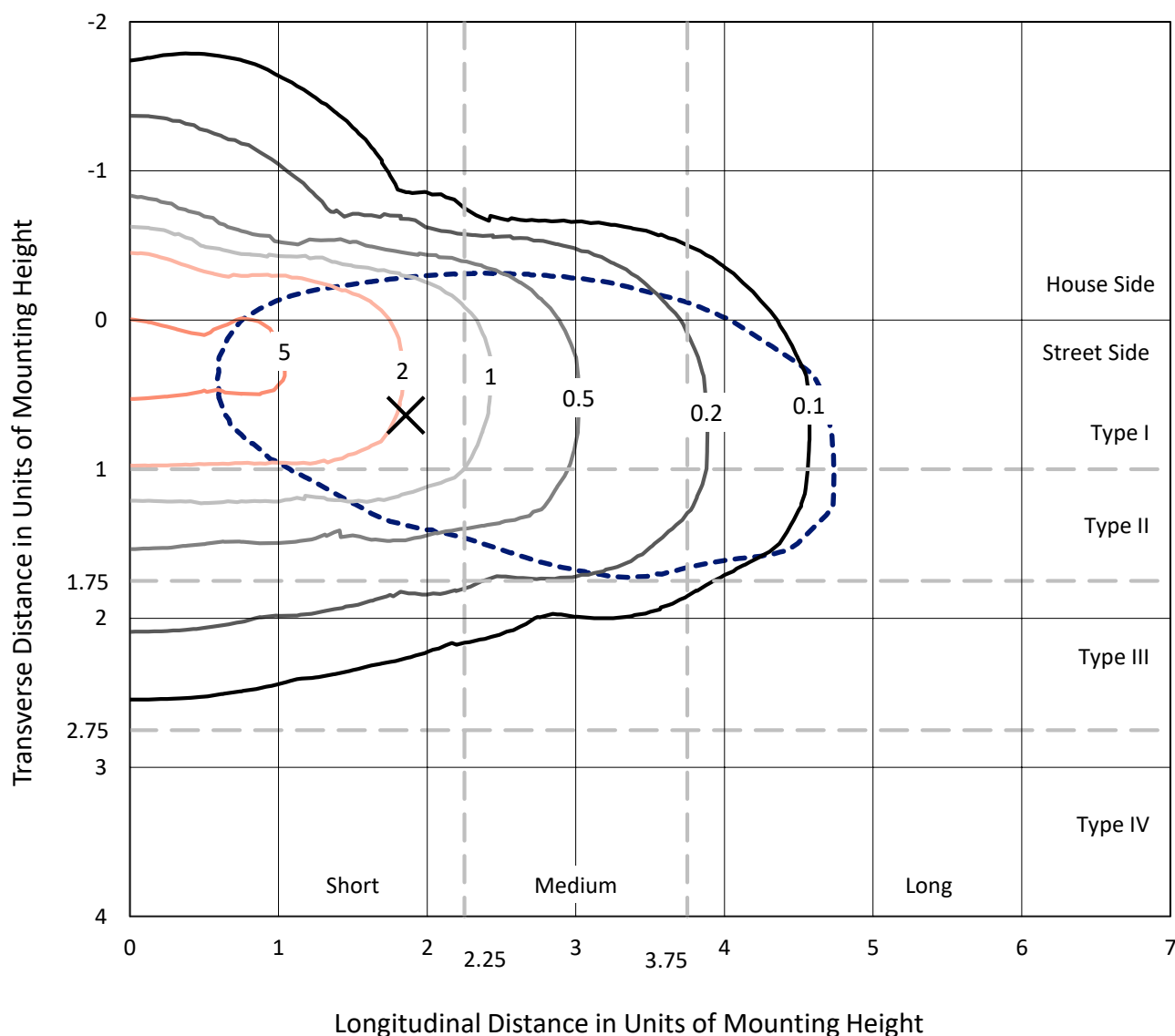
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

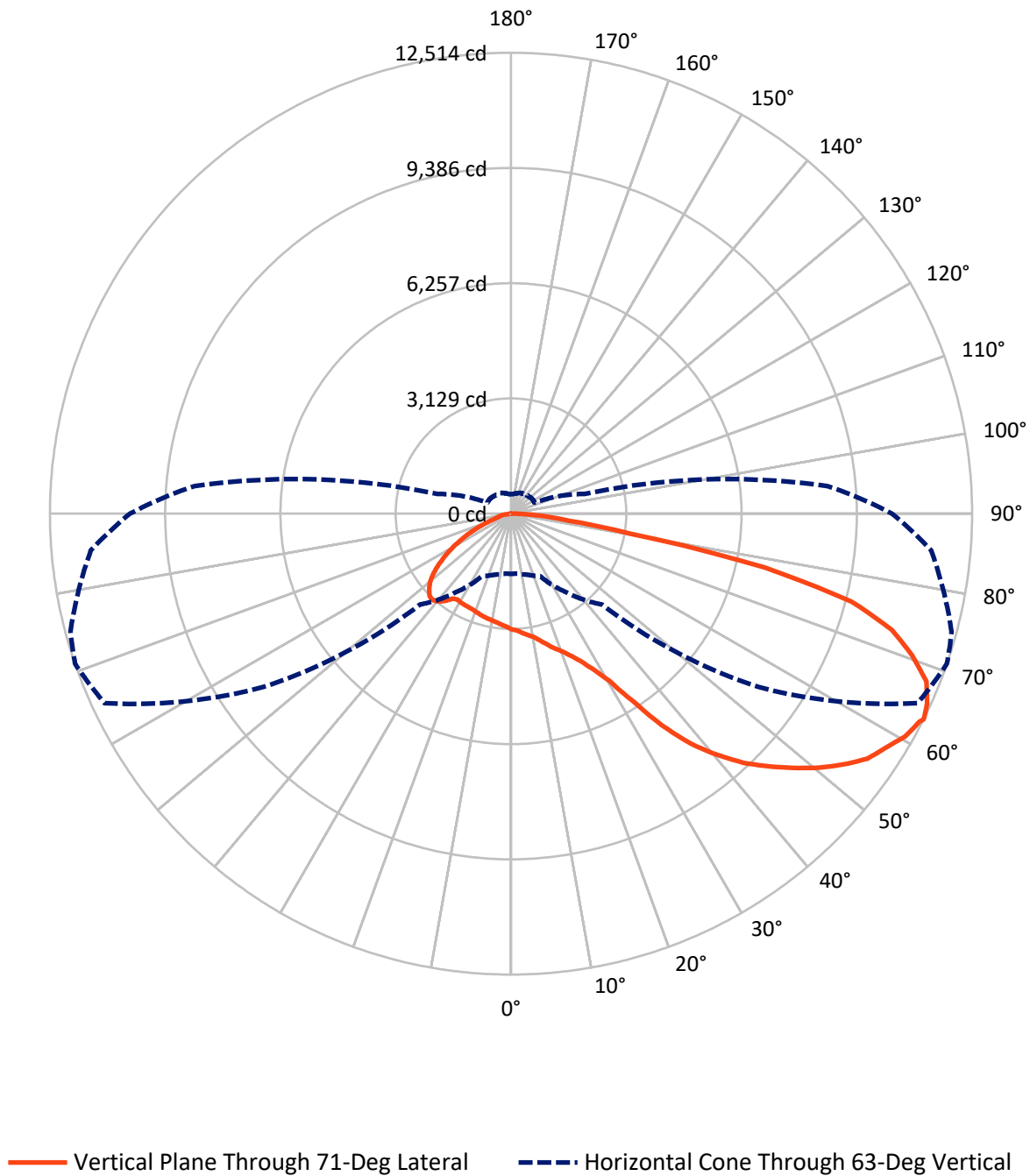


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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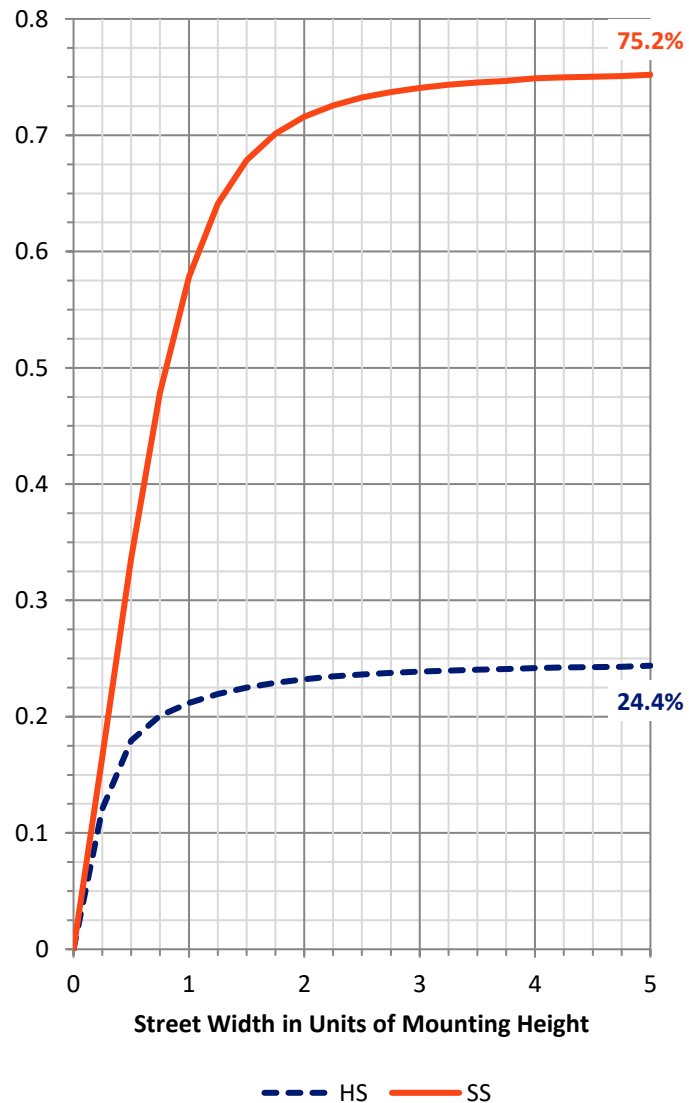
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4596.0	0.0	4596.0
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	13935.3	0.0	13935.3
	% Fixture	75.2	0.0	75.2
Total	Lumens	18531.3	0.0	18531.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	1.6
10°-20°	922.2	5.0
20°-30°	1557.2	8.4
30°-40°	2340.2	12.6
40°-50°	3216.7	17.4
50°-60°	3740.3	20.2
60°-70°	3718.6	20.1
70°-80°	2347.1	12.7
80°-90°	386.7	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°	18531.3	100.0
0°-180°	18531.3	100.0

Coefficient of Utilization



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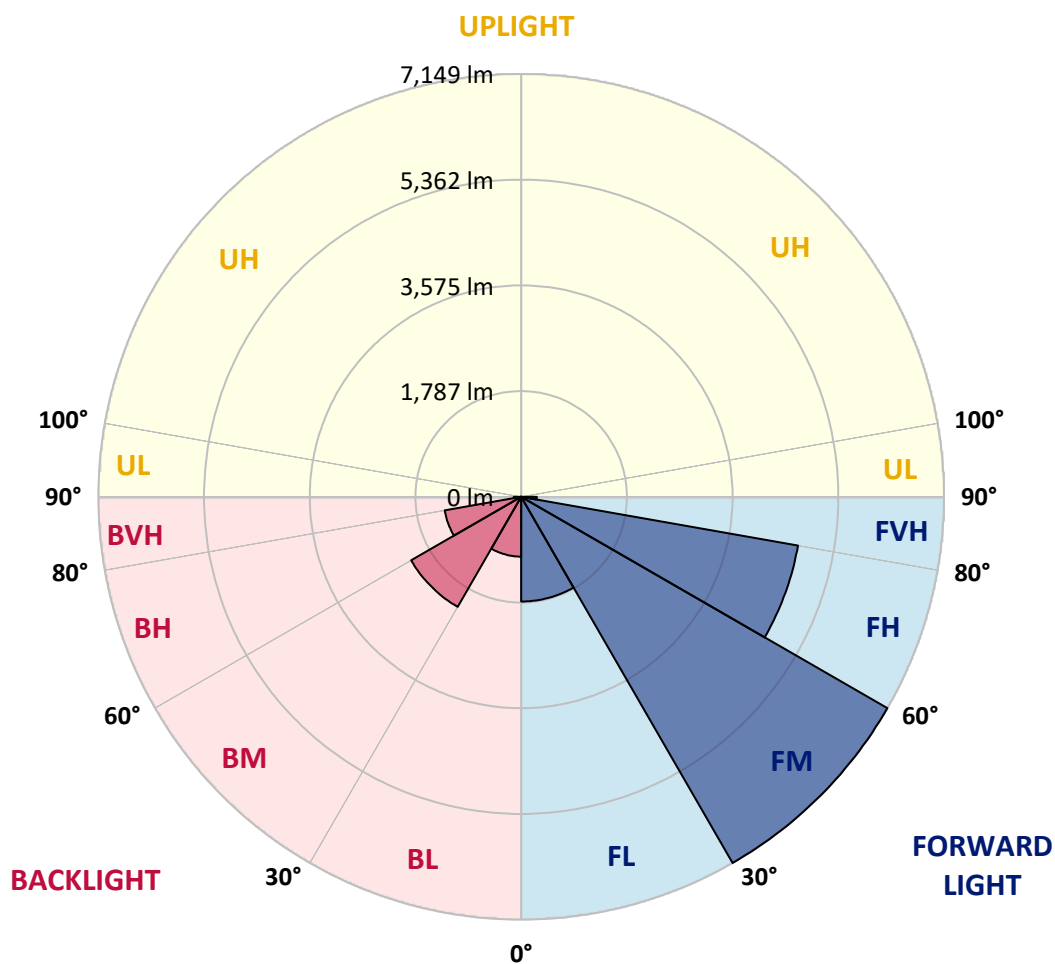
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1770.2	9.6			
FM	(30°-60°)	7149.4	38.6			
FH	(60°-80°)	4752.6	25.6			G2/5000
FVH	(80°-90°)	263.0	1.4			G3/500
BL	(0°-30°)	1011.6	5.5	B3/2500		
BM	(30°-60°)	2147.8	11.6	B2/2500		
BH	(60°-80°)	1313.0	7.1	B3/2500		G3/2500
BVH	(80°-90°)	123.6	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°	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6
2.5°	3368.0	3362.6	3355.4	3309.2	3301.2	3273.1	3243.2	3210.6	3174.5	3179.1	3134.7
5°	3557.0	3545.3	3540.8	3472.0	3421.4	3390.6	3349.9	3275.8	3255.0	3238.7	3152.8
7.5°	3709.0	3714.4	3704.5	3639.4	3588.7	3538.1	3465.8	3356.3	3329.1	3294.8	3209.8
10°	3832.0	3845.5	3838.3	3764.1	3720.8	3671.1	3583.3	3471.2	3408.7	3359.0	3223.4
12.5°	3980.3	3972.2	3974.0	3903.5	3865.5	3797.6	3733.4	3605.9	3534.4	3465.8	3285.7
15°	4165.7	4154.9	4141.3	4073.5	4016.5	3976.7	3908.0	3766.0	3688.2	3623.1	3385.2
17.5°	4330.3	4292.4	4286.0	4211.0	4165.7	4112.4	4065.4	3944.2	3847.3	3763.3	3494.7
20°	4440.7	4421.7	4396.4	4352.9	4333.9	4294.2	4235.4	4102.4	3993.9	3908.0	3587.9
22.5°	4514.9	4503.9	4503.9	4490.4	4499.5	4483.2	4436.1	4310.4	4199.2	4077.1	3730.7
25°	4536.6	4503.1	4551.0	4603.5	4666.7	4694.8	4651.4	4564.6	4453.4	4333.9	3915.2
27.5°	4552.0	4546.5	4606.2	4695.7	4855.8	4920.1	4920.1	4871.2	4799.8	4658.7	4182.9
30°	4553.8	4555.6	4636.0	4774.4	4990.5	5168.7	5177.8	5308.0	5270.9	5162.5	4592.7
32.5°	4424.4	4419.9	4541.0	4782.6	5094.6	5378.6	5526.0	5883.2	6054.1	6061.4	5484.3
35°	4163.1	4196.5	4387.4	4703.0	5167.9	5617.4	5958.3	6686.4	7056.3	7047.2	6355.4
37.5°	3956.8	3984.0	4203.8	4618.0	5215.8	5835.3	6444.0	7578.1	7920.0	7890.1	7049.0
40°	3769.6	3801.2	4020.1	4469.6	5199.4	6083.1	6983.9	8349.6	8609.1	8567.5	7702.0
42.5°	3545.3	3568.8	3785.9	4262.5	5153.3	6253.1	7469.5	9054.1	9248.6	9136.4	8213.0
45°	3322.8	3340.0	3577.0	3991.2	5007.7	6365.2	7954.3	9694.4	9784.9	9695.3	8777.3
47.5°	3040.6	3057.8	3331.9	3754.3	4757.3	6361.6	8407.4	10234.4	10319.4	10199.9	9202.5
50°	2337.9	2355.1	2916.7	3511.9	4408.1	6275.8	8770.1	10734.5	10840.3	10665.8	9681.8
52.5°	2124.5	2132.6	2285.5	3210.6	3962.2	6036.0	9034.2	11182.2	11311.6	11121.6	10097.8
55°	2026.8	2019.5	2082.0	2585.7	3618.6	5654.4	9235.0	11606.3	11738.4	11547.6	10468.6
57.5°	1873.1	1884.8	1990.6	2214.0	3307.4	4958.0	9163.6	12004.3	11991.6	11845.1	10833.1
60°	1762.7	1768.1	1873.1	2032.3	2934.9	4165.7	8861.5	12225.0	12285.6	12090.2	11147.8
62.5°	1647.8	1655.0	1744.6	1889.3	2644.6	3584.2	8376.7	12212.3	12442.1	12321.8	11432.7
63°	1633.4	1631.6	1713.0	1870.3	2600.1	3485.6	8198.5	12172.5	12514.3	12378.8	11446.3
65°	1519.4	1526.7	1613.5	1758.2	2410.3	3215.2	7694.8	11903.9	12413.1	12424.9	11571.1
67.5°	1353.9	1364.7	1438.9	1572.8	2047.6	2820.0	6372.5	11749.3	12156.2	12227.7	11413.7
70°	1158.6	1170.3	1248.1	1372.0	1735.6	2407.6	4736.4	11078.2	11553.0	11680.5	10702.9
72.5°	918.0	933.3	1031.9	1156.8	1423.6	1978.0	3333.7	9982.0	10811.4	10837.6	9710.7
75°	598.7	610.5	753.4	927.9	1151.4	1566.4	2202.3	7642.3	9548.9	9709.8	8323.3
77.5°	353.6	369.9	440.5	511.0	729.0	1180.3	1430.8	4069.9	7033.6	7546.5	6567.9
80°	95.9	105.8	333.8	389.8	465.8	509.2	880.9	2246.6	3255.9	4134.0	4423.5
82.5°	49.7	61.5	186.3	250.6	266.8	258.6	407.0	1044.6	1591.8	1864.9	2221.2
85°	22.6	27.1	61.5	91.4	74.2	70.6	135.7	545.3	889.9	1032.9	1116.9
87.5°	8.2	10.0	21.7	33.5	19.9	15.4	19.0	164.6	343.7	434.1	394.3
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°	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6
2.5°	3103.1	3130.2	3094.0	3052.4	3023.5	3007.1	2993.6	2962.8	2972.0	2983.6	2981.8
5°	3132.9	3136.6	3052.4	2999.1	2935.7	2899.6	2886.0	2833.5	2838.9	2844.3	2843.5
7.5°	3151.9	3118.4	3016.3	2938.5	2871.5	2816.4	2764.7	2712.4	2702.4	2712.4	2720.4
10°	3157.3	3106.7	2990.9	2882.4	2791.9	2713.2	2668.0	2585.7	2571.2	2591.1	2603.9
12.5°	3207.0	3123.0	2972.8	2845.3	2739.5	2635.4	2556.8	2465.4	2422.0	2438.3	2453.7
15°	3268.5	3151.9	2957.4	2798.2	2657.2	2540.5	2437.5	2338.8	2284.5	2306.2	2317.2
17.5°	3342.7	3205.2	2956.5	2721.4	2569.4	2428.3	2324.4	2217.6	2117.3	2152.6	2140.8
20°	3425.1	3251.3	2951.1	2650.0	2461.8	2291.8	2153.4	2082.9	1978.8	1979.8	1964.4
22.5°	3522.7	3314.7	2944.8	2582.1	2330.7	2158.8	1986.1	1904.7	1819.6	1788.1	1778.1
25°	3676.5	3416.0	2955.6	2536.0	2217.6	1985.2	1782.6	1677.7	1641.5	1601.7	1584.6
27.5°	3885.4	3557.0	2979.2	2477.2	2075.6	1801.6	1552.9	1451.6	1426.3	1396.4	1376.5
30°	4192.0	3758.7	3007.1	2410.3	1911.0	1552.9	1324.0	1250.8	1210.1	1194.7	1183.0
32.5°	4970.7	4325.8	3028.9	2322.6	1740.1	1313.2	1147.7	1074.4	1017.5	990.4	993.0
35°	5769.2	5013.2	3182.7	2217.6	1530.3	1113.3	993.0	902.6	833.0	814.9	802.2
37.5°	6395.1	5578.5	3534.4	2111.9	1329.5	997.6	841.1	762.4	703.7	699.1	727.2
40°	6985.7	6097.6	3824.8	1989.8	1121.5	865.5	687.3	655.7	629.5	635.8	673.8
42.5°	7475.9	6563.3	4063.6	1814.2	953.3	716.3	587.0	620.5	628.5	636.7	639.4
45°	7956.1	6930.6	4192.9	1584.6	804.9	596.0	576.2	638.5	652.1	663.8	649.4
47.5°	8451.7	7344.8	4191.1	1302.4	693.7	582.4	598.7	638.5	662.0	676.5	672.0
50°	8847.9	7652.3	4137.7	1024.7	665.6	614.1	610.5	612.3	650.2	660.2	661.2
52.5°	9223.2	7942.6	3917.9	842.0	704.5	650.2	624.1	602.3	618.7	642.1	615.9
55°	9589.6	8194.9	3528.1	792.3	723.5	681.0	652.1	614.1	597.8	592.4	601.4
57.5°	9890.7	8404.7	3070.5	769.7	729.0	683.7	700.1	613.2	595.1	553.5	549.0
60°	10184.6	8603.7	2620.1	738.0	724.4	678.3	653.0	628.5	585.2	522.7	500.2
62.5°	10367.3	8665.2	2148.8	710.9	704.5	672.0	636.7	624.9	575.2	527.3	520.9
63°	10341.1	8621.8	2066.6	706.3	700.1	667.4	637.6	620.5	570.7	532.7	530.0
65°	10404.4	8373.1	1703.0	678.3	681.0	654.8	624.1	593.3	530.0	502.8	498.4
67.5°	10104.1	7919.0	1229.1	626.7	652.1	634.9	596.9	540.9	482.0	446.7	444.9
70°	9316.4	7058.9	844.7	534.5	605.9	606.9	583.4	511.0	446.7	407.0	412.4
72.5°	8203.1	6168.1	544.5	416.0	520.9	558.0	544.5	483.0	398.8	326.4	321.0
75°	7008.3	5030.4	401.6	335.6	384.4	496.6	475.7	393.4	334.6	288.5	284.9
77.5°	5260.1	3637.6	355.4	286.7	285.7	336.4	391.6	387.1	397.0	477.5	466.7
80°	3641.2	2566.8	283.1	232.4	174.6	212.5	330.2	409.7	511.0	296.7	278.5
82.5°	2107.3	1393.7	92.2	73.2	106.7	137.5	242.4	509.2	338.2	177.2	159.2
85°	992.2	529.1	39.7	22.6	31.7	46.1	136.5	430.5	216.1	88.6	16.3
87.5°	307.5	145.6	9.0	7.2	8.2	10.0	57.9	226.1	148.3	10.0	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)