

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: P287005

Luminaire Tested: **USSL-C02-D-U-T2-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
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-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19221.3 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - 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

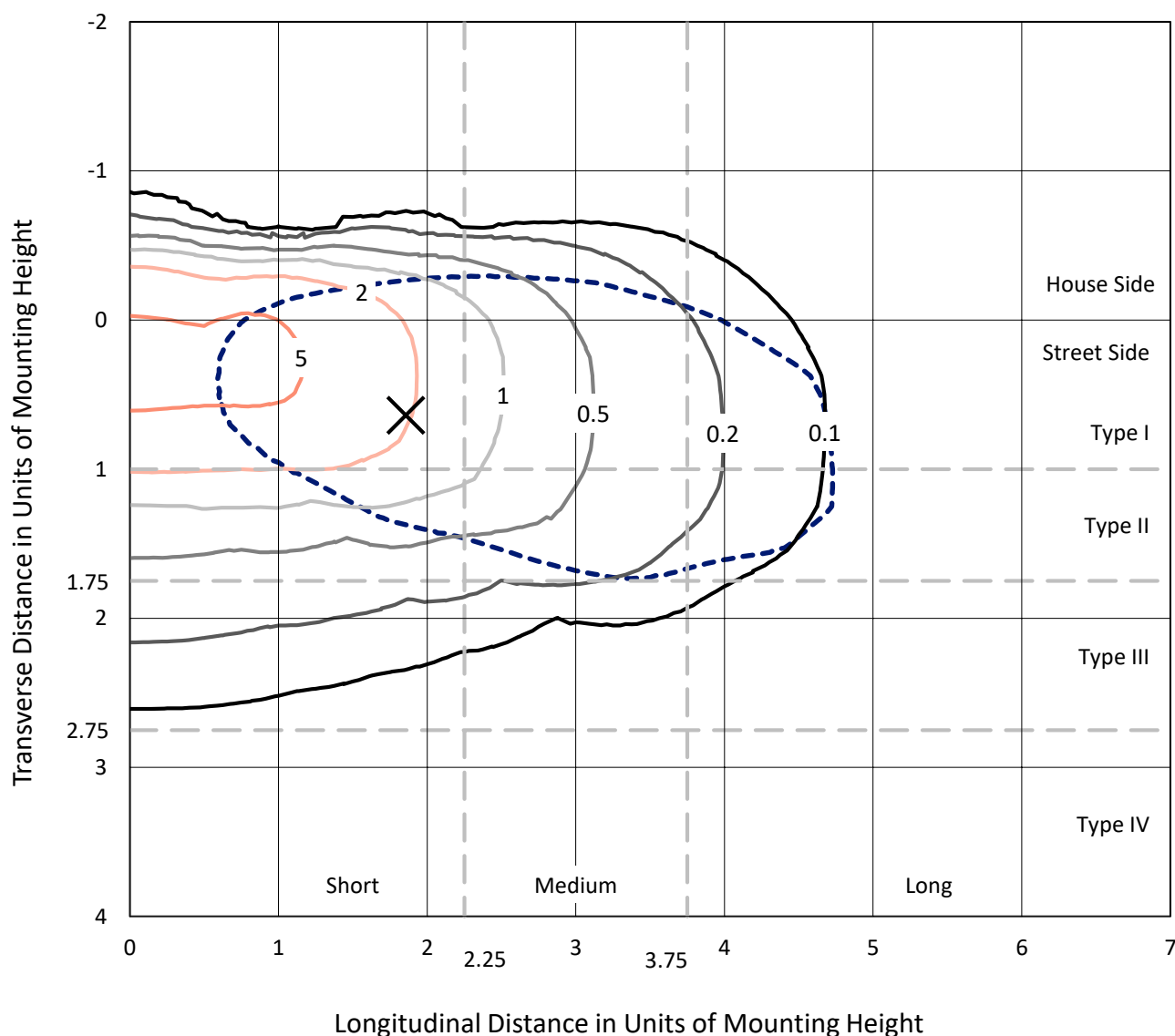


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

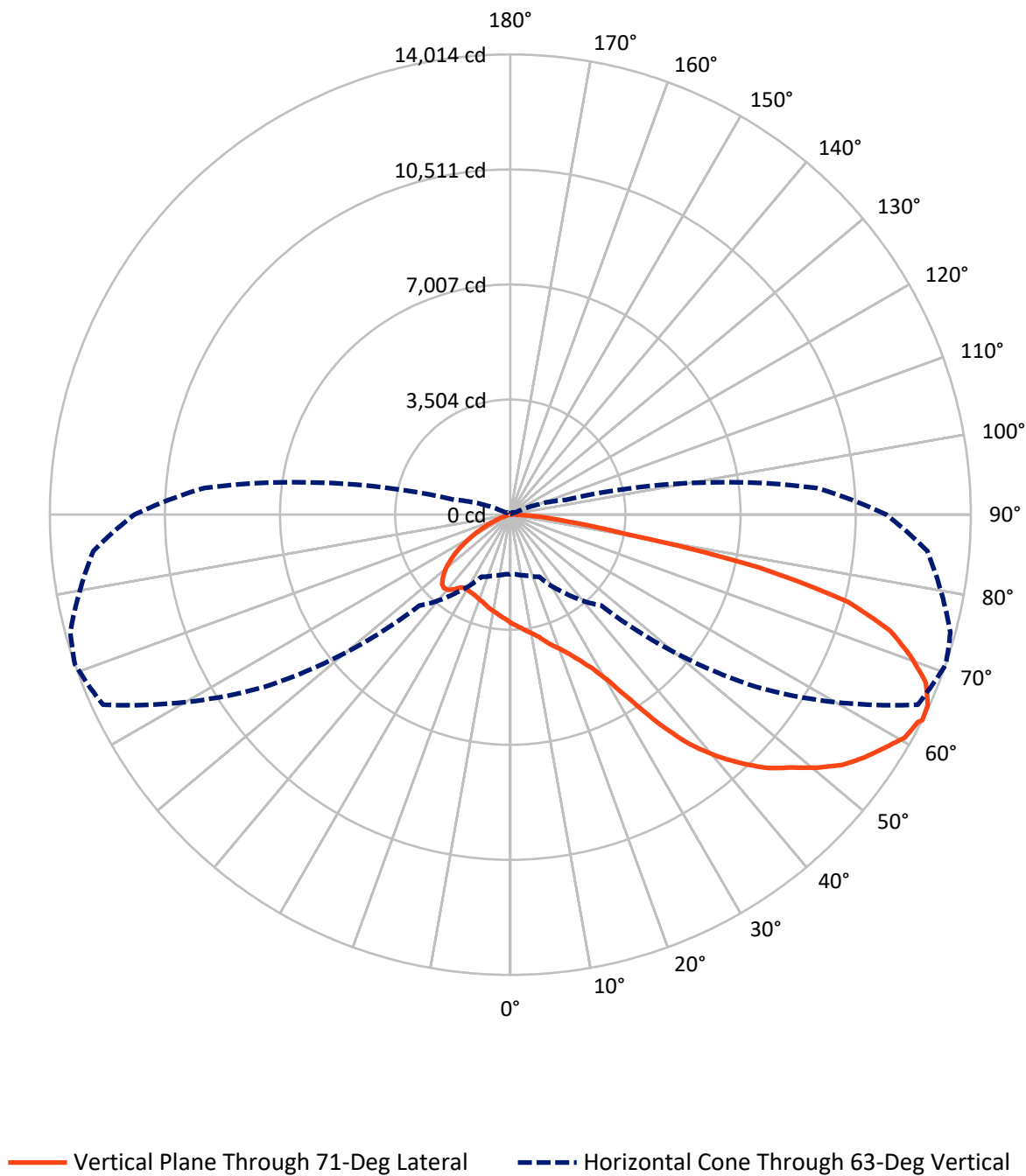


Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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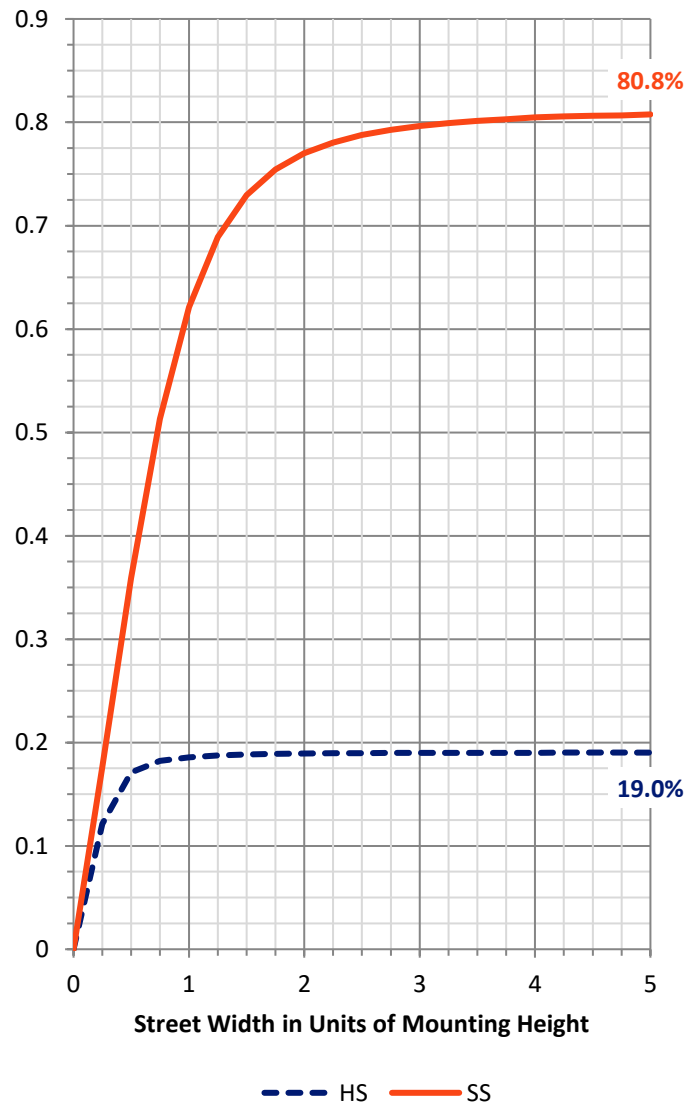
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3699.4	0.0	3699.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	15521.9	0.0	15521.9
	% Fixture	80.8	0.0	80.8
Total	Lumens	19221.3	0.0	19221.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	1.6
10°-20°	944.9	4.9
20°-30°	1589.2	8.3
30°-40°	2428.7	12.6
40°-50°	3383.3	17.6
50°-60°	3918.4	20.4
60°-70°	3880.5	20.2
70°-80°	2405.5	12.5
80°-90°	356.2	1.9
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°	19221.3	100.0
0°-180°	19221.3	100.0

Coefficient of Utilization



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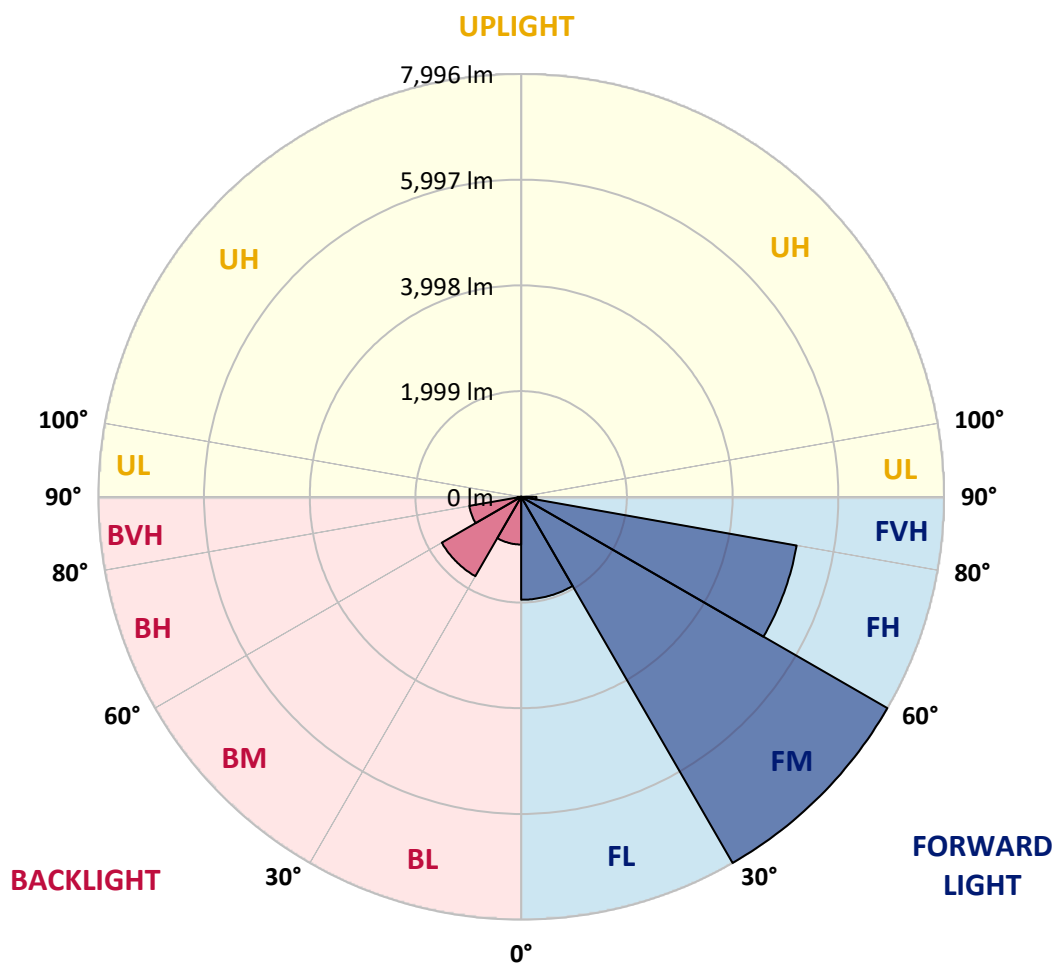
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1946.5	10.1			
FM	(30°-60°)	7996.3	41.6			
FH	(60°-80°)	5290.7	27.5			G3/7500
FVH	(80°-90°)	288.5	1.5			G3/500
BL	(0°-30°)	902.2	4.7	B2/1000		
BM	(30°-60°)	1734.1	9.0	B2/2500		
BH	(60°-80°)	995.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	67.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6
2.5°	3638.2	3603.6	3602.5	3558.6	3526.0	3507.6	3457.6	3413.8	3376.1	3372.0	3304.7
5°	3836.1	3827.9	3816.7	3748.3	3717.7	3676.9	3621.9	3537.2	3468.8	3451.6	3344.4
7.5°	4059.4	4053.3	4030.9	3969.6	3892.2	3844.3	3737.1	3652.4	3580.0	3543.4	3398.5
10°	4188.0	4186.9	4184.9	4133.9	4073.7	4003.3	3889.1	3764.7	3681.0	3642.2	3433.1
12.5°	4391.9	4364.4	4355.2	4293.0	4216.5	4165.5	4060.5	3926.8	3813.6	3745.3	3511.7
15°	4556.2	4557.1	4539.9	4483.7	4426.6	4345.1	4256.2	4122.7	3998.3	3946.2	3646.4
17.5°	4760.1	4741.8	4721.4	4662.2	4602.1	4516.3	4461.3	4299.2	4197.1	4082.8	3764.7
20°	4889.6	4858.1	4835.6	4797.8	4773.4	4705.1	4655.1	4511.3	4371.6	4273.6	3897.3
22.5°	4979.4	5012.1	5002.8	4941.7	4950.9	4930.4	4867.3	4770.3	4613.2	4452.1	4050.2
25°	5034.5	5027.3	5080.4	5120.2	5189.6	5185.5	5138.5	5053.9	4914.1	4740.7	4278.7
27.5°	5050.8	5050.8	5136.5	5248.7	5411.8	5447.6	5453.7	5448.6	5293.6	5136.5	4578.6
30°	5075.3	5102.9	5185.5	5325.1	5561.8	5703.6	5770.9	5884.1	5845.3	5708.7	5068.1
32.5°	4978.5	4981.4	5101.8	5371.0	5715.8	6010.6	6143.2	6544.0	6714.4	6777.6	6060.6
35°	4666.3	4697.9	4917.2	5288.5	5787.3	6274.8	6634.9	7463.0	7838.4	7846.5	7010.2
37.5°	4450.1	4480.6	4716.2	5169.1	5843.3	6541.0	7196.8	8495.2	8874.6	8780.8	7829.2
40°	4213.4	4264.4	4514.3	5008.0	5835.2	6802.1	7797.6	9409.1	9662.0	9538.7	8499.3
42.5°	3982.9	3991.1	4237.0	4784.6	5793.3	7014.2	8385.1	10084.3	10363.8	10204.6	9156.2
45°	3703.5	3740.2	3982.9	4487.8	5654.7	7144.8	8902.2	10824.8	11010.5	10832.9	9704.9
47.5°	3381.2	3428.0	3740.2	4213.4	5346.6	7164.2	9367.3	11490.8	11509.1	11368.4	10282.2
50°	2611.1	2640.6	3282.2	3943.1	4978.5	7086.7	9811.0	11989.6	12108.9	11925.4	10774.8
52.5°	2364.2	2388.7	2568.2	3591.3	4485.8	6827.6	10121.0	12562.8	12659.7	12498.6	11256.2
55°	2266.4	2277.5	2340.8	2910.9	4072.7	6367.6	10316.9	12991.2	13060.5	12860.6	11655.1
57.5°	2095.0	2105.2	2239.8	2482.6	3725.9	5606.7	10292.4	13413.5	13408.4	13184.9	12068.1
60°	1965.5	1986.9	2101.1	2282.7	3307.7	4690.8	9956.8	13736.7	13786.8	13581.8	12369.0
62.5°	1843.1	1851.2	1948.1	2123.5	2968.0	4022.7	9325.4	13707.2	13918.3	13766.3	12747.4
63°	1808.4	1823.7	1919.6	2089.9	2919.1	3917.6	9155.1	13683.7	14014.2	13865.3	12738.2
65°	1701.2	1703.4	1797.2	1958.3	2685.6	3590.2	8589.0	13373.7	13964.2	13874.5	12896.3
67.5°	1497.3	1512.6	1596.2	1753.3	2296.0	3174.1	7126.4	13167.7	13639.9	13686.8	12638.2
70°	1270.8	1280.0	1383.1	1537.1	1929.8	2692.7	5330.3	12449.6	12921.9	12980.0	11960.0
72.5°	996.5	1001.6	1113.7	1293.3	1578.9	2223.5	3678.0	11198.1	12084.4	12084.4	10800.3
75°	313.1	370.2	780.3	1042.4	1276.0	1720.6	2416.3	8688.0	10621.8	10886.0	9246.9
77.5°	102.0	110.1	246.9	549.8	803.7	1320.8	1604.4	4618.4	7716.0	8442.2	7293.7
80°	73.5	85.6	152.9	412.1	505.9	562.0	994.5	2517.3	3506.6	4595.9	4871.3
82.5°	37.7	49.0	108.1	262.1	287.7	283.5	441.7	1190.3	1751.3	2115.3	2527.4
85°	17.4	21.4	47.0	91.8	79.6	74.4	156.0	623.2	987.3	1166.8	1260.6
87.5°	4.0	6.1	17.4	32.6	20.4	16.3	18.3	197.9	360.0	448.8	464.1
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°	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6	3303.6
2.5°	3276.2	3292.4	3214.9	3177.2	3112.9	3092.5	3060.9	3023.2	3011.0	3041.5	3021.1
5°	3304.7	3282.2	3170.1	3068.0	2982.3	2915.0	2864.1	2799.8	2761.0	2770.2	2776.3
7.5°	3315.9	3265.9	3106.8	2981.3	2836.5	2749.8	2657.0	2566.2	2527.4	2533.6	2537.6
10°	3327.1	3251.7	3064.0	2879.3	2707.0	2573.3	2467.2	2346.9	2288.7	2290.9	2310.2
12.5°	3393.4	3246.5	3028.2	2804.9	2581.5	2415.3	2285.7	2152.1	2069.5	2075.6	2090.9
15°	3487.3	3290.4	2982.3	2694.7	2460.1	2271.5	2110.3	1962.4	1899.1	1908.3	1922.7
17.5°	3567.8	3339.3	2946.6	2578.4	2313.2	2110.3	1964.4	1838.0	1722.7	1740.0	1729.9
20°	3649.4	3408.7	2935.4	2480.5	2186.8	1953.2	1787.9	1686.0	1543.2	1504.4	1492.2
22.5°	3779.9	3486.2	2925.2	2390.8	2036.8	1815.5	1609.5	1459.6	1254.5	1184.1	1156.7
25°	3951.3	3597.4	2910.0	2310.2	1912.4	1651.3	1371.8	1102.6	950.6	860.9	819.0
27.5°	4182.8	3756.5	2932.4	2238.8	1787.0	1456.5	1041.4	800.6	665.0	587.5	543.6
30°	4570.4	3964.6	2937.5	2174.6	1633.9	1161.8	741.5	556.9	441.7	388.6	362.1
32.5°	5422.1	4595.9	2983.4	2101.1	1469.8	854.7	516.1	373.3	281.5	247.8	263.2
35°	6317.6	5371.0	3148.6	1997.1	1212.7	578.3	340.7	241.8	180.5	185.6	190.8
37.5°	6996.9	5972.9	3495.3	1869.6	911.8	395.8	205.0	165.2	159.1	173.4	199.9
40°	7665.0	6571.6	3804.4	1715.6	618.1	237.6	138.7	152.0	142.8	148.9	150.9
42.5°	8250.5	7049.0	4025.8	1488.1	382.5	139.7	121.4	140.8	130.6	127.5	112.2
45°	8816.5	7462.0	4162.4	1173.9	219.3	111.2	111.2	134.6	126.4	119.3	102.0
47.5°	9317.3	7924.0	4128.7	810.8	133.7	99.9	104.1	121.4	118.3	109.2	99.9
50°	9778.3	8258.6	4041.1	460.0	117.3	94.9	101.0	101.0	106.1	82.6	75.5
52.5°	10180.2	8555.4	3758.5	245.8	109.2	90.7	90.7	80.6	85.6	63.3	60.2
55°	10593.3	8866.5	3360.7	192.8	104.1	90.7	80.6	70.4	64.2	45.9	49.0
57.5°	10932.9	9096.0	2845.7	173.4	107.0	86.7	73.5	61.2	51.0	35.7	34.7
60°	11247.0	9285.7	2345.9	154.0	115.2	87.8	61.2	51.0	35.7	28.5	25.5
62.5°	11436.7	9328.5	1819.6	139.7	115.2	80.6	55.1	42.8	27.6	19.4	18.3
63°	11442.9	9341.7	1737.0	138.7	117.3	80.6	55.1	41.9	25.5	18.3	17.4
65°	11532.7	9065.3	1370.8	135.7	119.3	76.5	52.0	33.7	21.4	14.3	13.2
67.5°	11189.9	8532.9	901.7	133.7	119.3	74.4	45.9	28.5	18.3	11.2	9.2
70°	10284.2	7622.2	551.8	128.6	121.4	73.5	57.1	24.5	16.3	8.2	7.1
72.5°	9035.8	6732.7	317.2	114.3	119.3	60.2	32.6	21.4	14.3	6.1	5.1
75°	7648.7	5411.8	199.9	88.7	92.8	50.0	27.6	19.4	12.2	3.1	3.1
77.5°	5811.7	3894.2	171.4	68.4	55.1	43.9	23.4	15.3	8.2	1.1	1.1
80°	4104.4	2751.8	123.4	42.8	30.6	27.6	17.4	10.2	3.1	0.0	0.0
82.5°	2310.2	1503.5	67.3	15.3	9.2	10.2	8.2	4.0	0.0	0.0	0.0
85°	1089.4	587.5	33.7	10.2	5.1	4.0	1.1	0.0	0.0	0.0	0.0
87.5°	404.9	141.8	8.2	4.0	3.1	1.1	0.0	0.0	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)