

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-BZ-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-BZ-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18135 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: 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

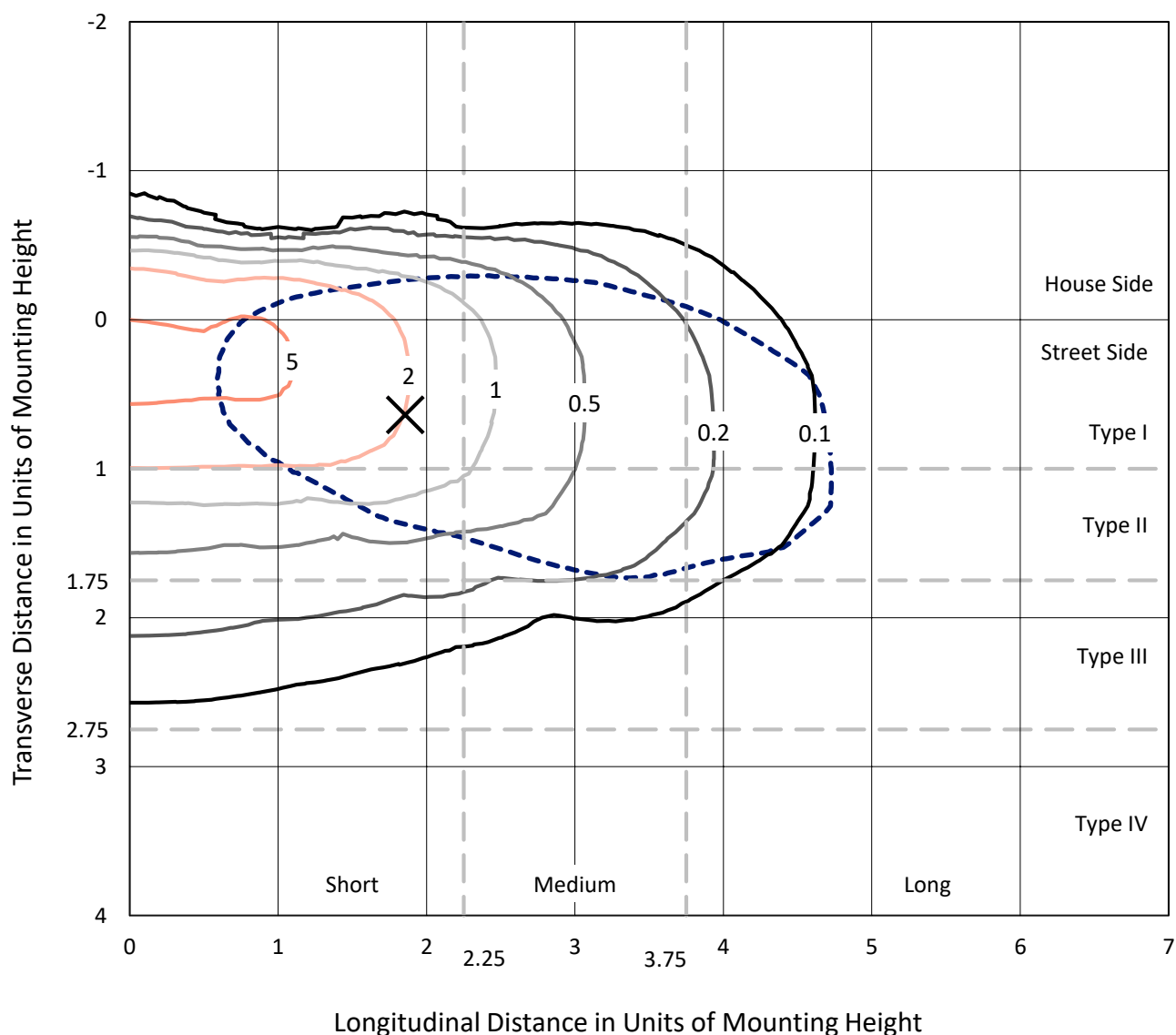


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

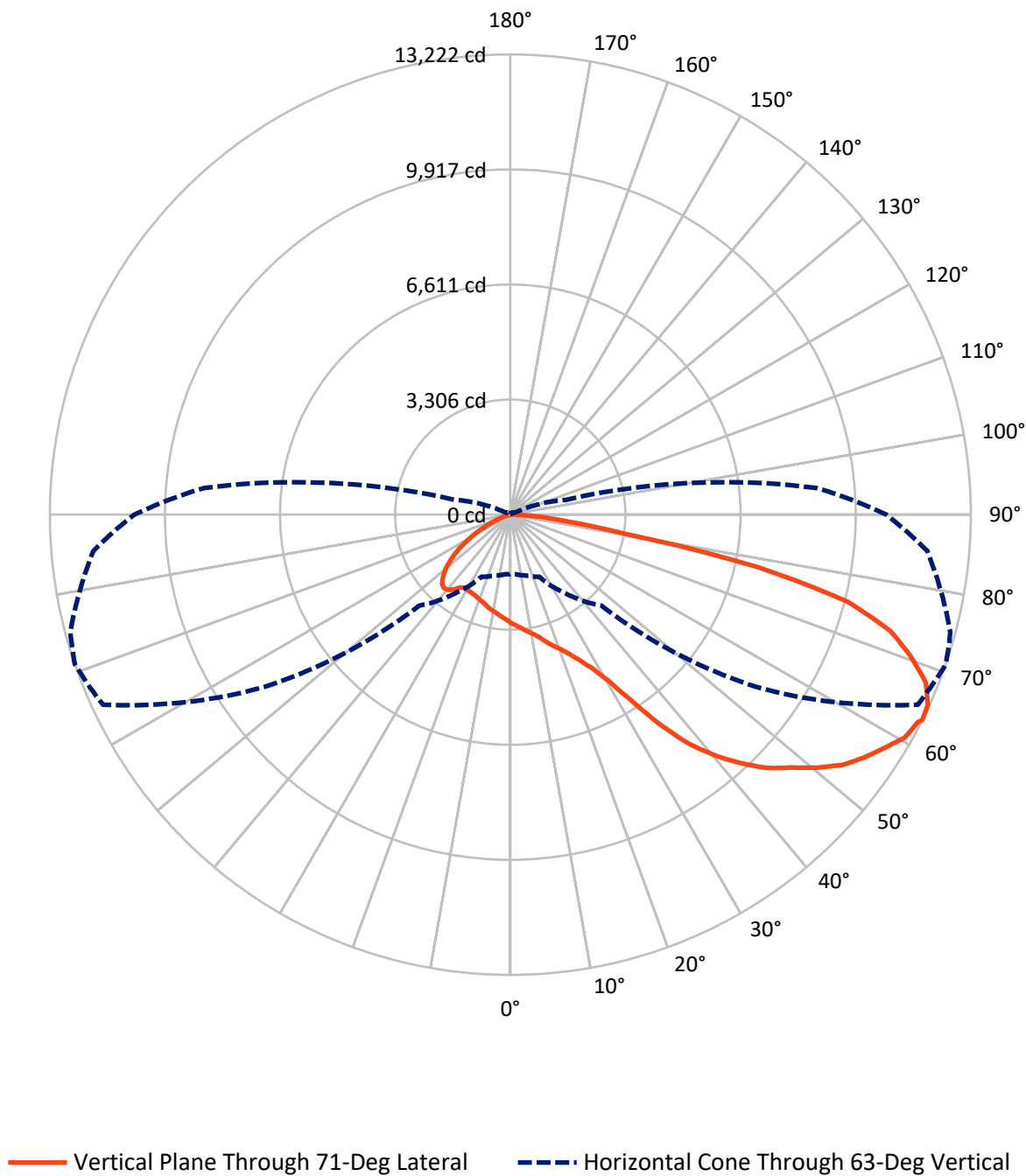


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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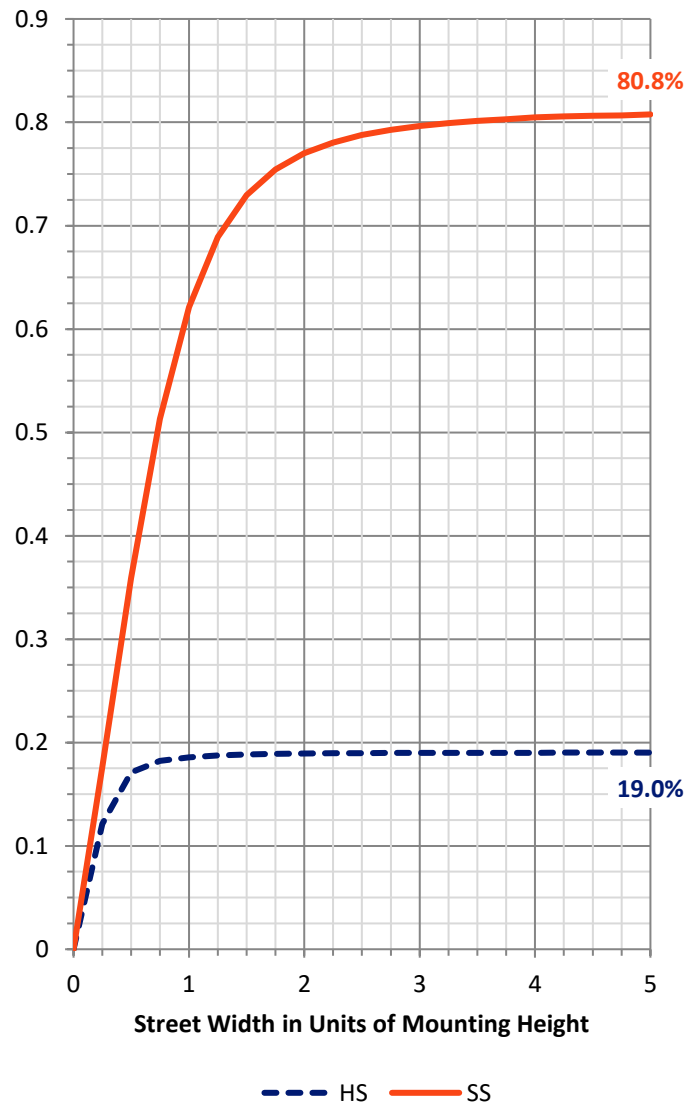
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3490.3	0.0	3490.3
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	14644.7	0.0	14644.7
	% Fixture	80.8	0.0	80.8
Total	Lumens	18135.0	0.0	18135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.8	1.6
10°-20°	891.5	4.9
20°-30°	1499.3	8.3
30°-40°	2291.4	12.6
40°-50°	3192.1	17.6
50°-60°	3697.0	20.4
60°-70°	3661.2	20.2
70°-80°	2269.6	12.5
80°-90°	336.1	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°	18135.0	100.0
0°-180°	18135.0	100.0

Coefficient of Utilization



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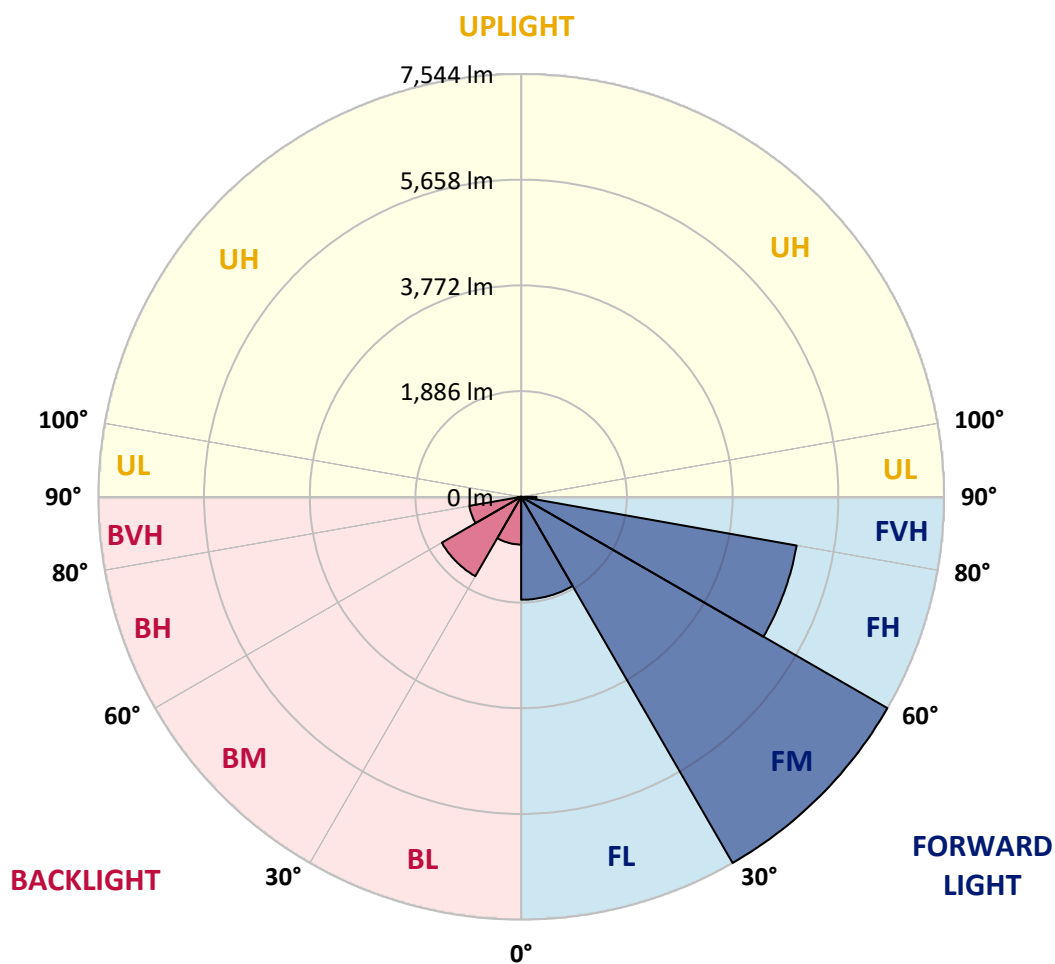
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1836.5	10.1			
FM	(30°-60°)	7544.4	41.6			
FH	(60°-80°)	4991.7	27.5			G2/5000
FVH	(80°-90°)	272.2	1.5			G3/500
BL	(0°-30°)	851.2	4.7	B2/1000		
BM	(30°-60°)	1636.1	9.0	B2/2500		
BH	(60°-80°)	939.2	5.2	B2/1000		G2/1000
BVH	(80°-90°)	63.9	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°	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9
2.5°	3432.6	3399.9	3398.9	3357.5	3326.7	3309.4	3262.2	3220.9	3185.3	3181.4	3117.9
5°	3619.3	3611.6	3601.0	3536.5	3507.6	3469.1	3417.2	3337.3	3272.8	3256.5	3155.4
7.5°	3830.0	3824.2	3803.1	3745.3	3672.2	3627.0	3525.9	3446.0	3377.7	3343.1	3206.4
10°	3951.3	3950.3	3948.4	3900.3	3843.5	3777.1	3669.3	3551.9	3473.0	3436.4	3239.1
12.5°	4143.7	4117.7	4109.1	4050.4	3978.2	3930.1	3831.0	3704.9	3598.1	3533.6	3313.2
15°	4298.7	4299.6	4283.3	4230.3	4176.4	4099.5	4015.7	3889.7	3772.3	3723.2	3440.3
17.5°	4491.1	4473.8	4454.6	4398.7	4342.0	4261.1	4209.2	4056.2	3959.9	3852.1	3551.9
20°	4613.3	4583.5	4562.3	4526.7	4503.6	4439.2	4392.0	4256.3	4124.5	4032.1	3677.0
22.5°	4698.0	4728.8	4720.1	4662.4	4671.1	4651.8	4592.2	4500.7	4352.5	4200.5	3821.3
25°	4750.0	4743.2	4793.3	4830.8	4896.3	4892.4	4848.1	4768.3	4636.4	4472.8	4036.9
27.5°	4765.4	4765.4	4846.2	4952.1	5106.0	5139.7	5145.5	5140.7	4994.4	4846.2	4319.8
30°	4788.5	4814.5	4892.4	5024.2	5247.5	5381.3	5444.8	5551.6	5515.0	5386.1	4781.7
32.5°	4697.1	4699.9	4813.5	5067.5	5392.8	5670.9	5796.0	6174.2	6334.9	6394.6	5718.1
35°	4402.6	4432.4	4639.3	4989.6	5460.2	5920.2	6259.9	7041.2	7395.4	7403.1	6614.0
37.5°	4198.6	4227.4	4449.7	4877.0	5513.1	6171.3	6790.1	8015.1	8373.1	8284.6	7386.7
40°	3975.3	4023.4	4259.2	4725.0	5505.4	6417.7	7356.9	8877.3	9116.0	8999.6	8019.0
42.5°	3757.8	3765.5	3997.5	4514.2	5465.9	6617.8	7911.2	9514.4	9778.1	9627.9	8638.7
45°	3494.2	3528.8	3757.8	4234.2	5335.1	6741.0	8399.1	10213.0	10388.2	10220.7	9156.4
47.5°	3190.1	3234.3	3528.8	3975.3	5044.4	6759.3	8837.9	10841.4	10858.7	10725.9	9701.1
50°	2463.5	2491.4	3096.7	3720.3	4697.1	6686.2	9256.5	11312.0	11424.6	11251.4	10165.9
52.5°	2230.6	2253.7	2423.1	3388.3	4232.3	6441.7	9549.0	11852.8	11944.2	11792.2	10620.1
55°	2138.3	2148.8	2208.5	2746.4	3842.5	6007.7	9733.8	12257.0	12322.4	12133.8	10996.4
57.5°	1976.6	1986.2	2113.2	2342.3	3515.3	5289.8	9710.7	12655.4	12650.6	12439.8	11386.1
60°	1854.4	1874.6	1982.4	2153.7	3120.8	4425.7	9394.1	12960.4	13007.6	12814.2	11670.0
62.5°	1738.9	1746.6	1838.0	2003.5	2800.3	3795.4	8798.4	12932.5	13131.7	12988.3	12027.0
63°	1706.2	1720.6	1811.1	1971.8	2754.1	3696.2	8637.7	12910.4	13222.2	13081.7	12018.3
65°	1605.1	1607.1	1695.6	1847.6	2533.8	3387.3	8103.6	12617.9	13175.0	13090.4	12167.5
67.5°	1412.7	1427.1	1506.0	1654.2	2166.2	2994.7	6723.7	12423.5	12869.0	12913.3	11924.0
70°	1199.0	1207.7	1304.9	1450.2	1820.7	2540.5	5029.1	11746.0	12191.6	12246.4	11284.1
72.5°	940.2	945.0	1050.8	1220.2	1489.7	2097.8	3470.1	10565.2	11401.5	11401.5	10189.9
75°	295.4	349.3	736.2	983.5	1203.9	1623.4	2279.7	8197.0	10021.5	10270.8	8724.3
77.5°	96.2	103.9	232.9	518.7	758.3	1246.2	1513.7	4357.4	7279.9	7965.1	6881.5
80°	69.3	80.8	144.3	388.8	477.3	530.2	938.3	2375.0	3308.4	4336.2	4596.0
82.5°	35.6	46.2	102.0	247.3	271.4	267.5	416.7	1123.0	1652.3	1995.8	2384.6
85°	16.4	20.2	44.3	86.6	75.1	70.2	147.2	588.0	931.5	1100.9	1189.4
87.5°	3.8	5.8	16.4	30.8	19.2	15.4	17.3	186.7	339.7	423.4	437.9
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°	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9
2.5°	3091.0	3106.3	3033.2	2997.6	2937.0	2917.7	2887.9	2852.3	2840.8	2869.6	2850.4
5°	3117.9	3096.7	2990.9	2894.6	2813.8	2750.3	2702.2	2641.6	2605.0	2613.6	2619.4
7.5°	3128.5	3081.3	2931.2	2812.8	2676.2	2594.4	2506.8	2421.2	2384.6	2390.4	2394.2
10°	3139.1	3067.9	2890.8	2716.6	2554.0	2427.9	2327.8	2214.3	2159.4	2161.4	2179.6
12.5°	3201.6	3063.0	2857.1	2646.4	2435.6	2278.8	2156.5	2030.5	1952.5	1958.3	1972.7
15°	3290.2	3104.4	2813.8	2542.4	2321.1	2143.1	1991.0	1851.5	1791.8	1800.5	1814.0
17.5°	3366.2	3150.6	2780.1	2432.7	2182.5	1991.0	1853.4	1734.1	1625.3	1641.7	1632.1
20°	3443.2	3216.1	2769.5	2340.3	2063.2	1842.8	1686.9	1590.7	1456.0	1419.4	1407.9
22.5°	3566.3	3289.2	2759.9	2255.7	1921.7	1712.9	1518.5	1377.1	1183.6	1117.2	1091.3
25°	3728.0	3394.1	2745.5	2179.6	1804.3	1558.0	1294.3	1040.3	896.9	812.2	772.7
27.5°	3946.4	3544.2	2766.7	2112.3	1686.0	1374.2	982.5	755.4	627.4	554.3	512.9
30°	4312.1	3740.5	2771.5	2051.7	1541.6	1096.1	699.6	525.4	416.7	366.6	341.6
32.5°	5115.7	4336.2	2814.8	1982.4	1386.7	806.4	486.9	352.2	265.6	233.8	248.3
35°	5960.6	5067.5	2970.7	1884.2	1144.2	545.6	321.4	228.1	170.3	175.1	180.0
37.5°	6601.5	5635.3	3297.8	1763.9	860.3	373.4	193.4	155.9	150.1	163.6	188.6
40°	7231.8	6200.2	3589.4	1618.6	583.2	224.2	130.9	143.4	134.7	140.5	142.4
42.5°	7784.2	6650.6	3798.3	1404.0	360.9	131.8	114.5	132.8	123.2	120.3	105.9
45°	8318.2	7040.3	3927.2	1107.6	206.9	104.9	104.9	127.0	119.3	112.6	96.2
47.5°	8790.7	7476.2	3895.4	765.0	126.1	94.3	98.2	114.5	111.6	103.0	94.3
50°	9225.7	7791.9	3812.7	434.0	110.7	89.5	95.3	95.3	100.1	77.9	71.2
52.5°	9604.9	8071.9	3546.1	231.9	103.0	85.6	85.6	76.0	80.8	59.7	56.8
55°	9994.6	8365.4	3170.8	181.9	98.2	85.6	76.0	66.4	60.6	43.3	46.2
57.5°	10315.0	8581.9	2684.9	163.6	101.0	81.8	69.3	57.7	48.1	33.7	32.7
60°	10611.4	8760.9	2213.3	145.3	108.7	82.8	57.7	48.1	33.7	26.9	24.1
62.5°	10790.4	8801.3	1716.8	131.8	108.7	76.0	52.0	40.4	26.0	18.3	17.3
63°	10796.2	8813.8	1638.8	130.9	110.7	76.0	52.0	39.5	24.1	17.3	16.4
65°	10880.9	8553.0	1293.3	128.0	112.6	72.2	49.1	31.8	20.2	13.5	12.5
67.5°	10557.5	8050.7	850.7	126.1	112.6	70.2	43.3	26.9	17.3	10.6	8.7
70°	9703.0	7191.4	520.6	121.3	114.5	69.3	53.9	23.1	15.4	7.7	6.7
72.5°	8525.1	6352.2	299.3	107.8	112.6	56.8	30.8	20.2	13.5	5.8	4.8
75°	7216.4	5106.0	188.6	83.7	87.6	47.2	26.0	18.3	11.5	2.9	2.9
77.5°	5483.3	3674.1	161.7	64.5	52.0	41.4	22.1	14.4	7.7	1.0	1.0
80°	3872.4	2596.3	116.4	40.4	28.9	26.0	16.4	9.6	2.9	0.0	0.0
82.5°	2179.6	1418.5	63.5	14.4	8.7	9.6	7.7	3.8	0.0	0.0	0.0
85°	1027.8	554.3	31.8	9.6	4.8	3.8	1.0	0.0	0.0	0.0	0.0
87.5°	382.0	133.8	7.7	3.8	2.9	1.0	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)