

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: P287029

Luminaire Tested: **USSL-C02-D-U-T3-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)
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-T3-AP-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19654.8 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G4

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

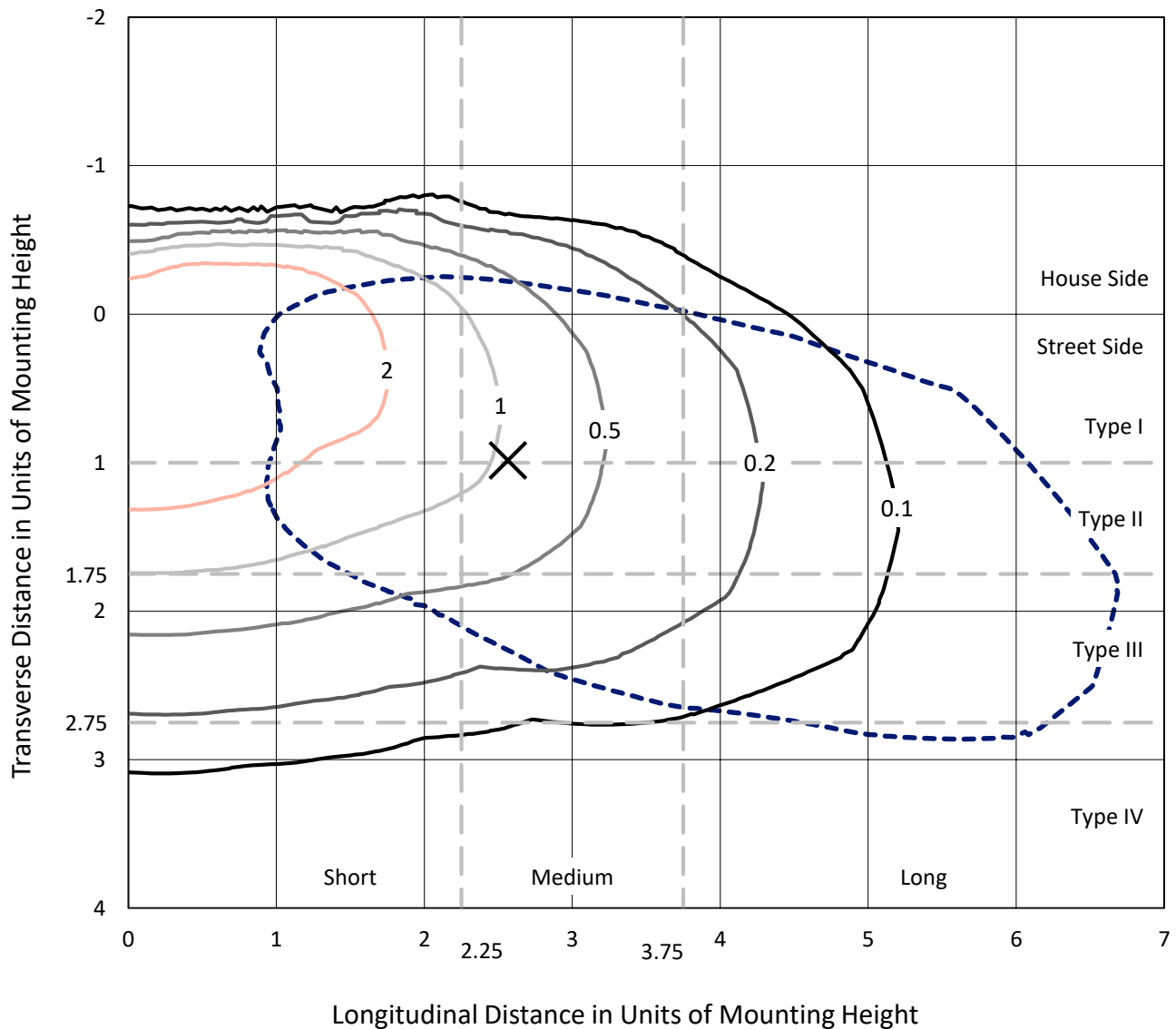


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

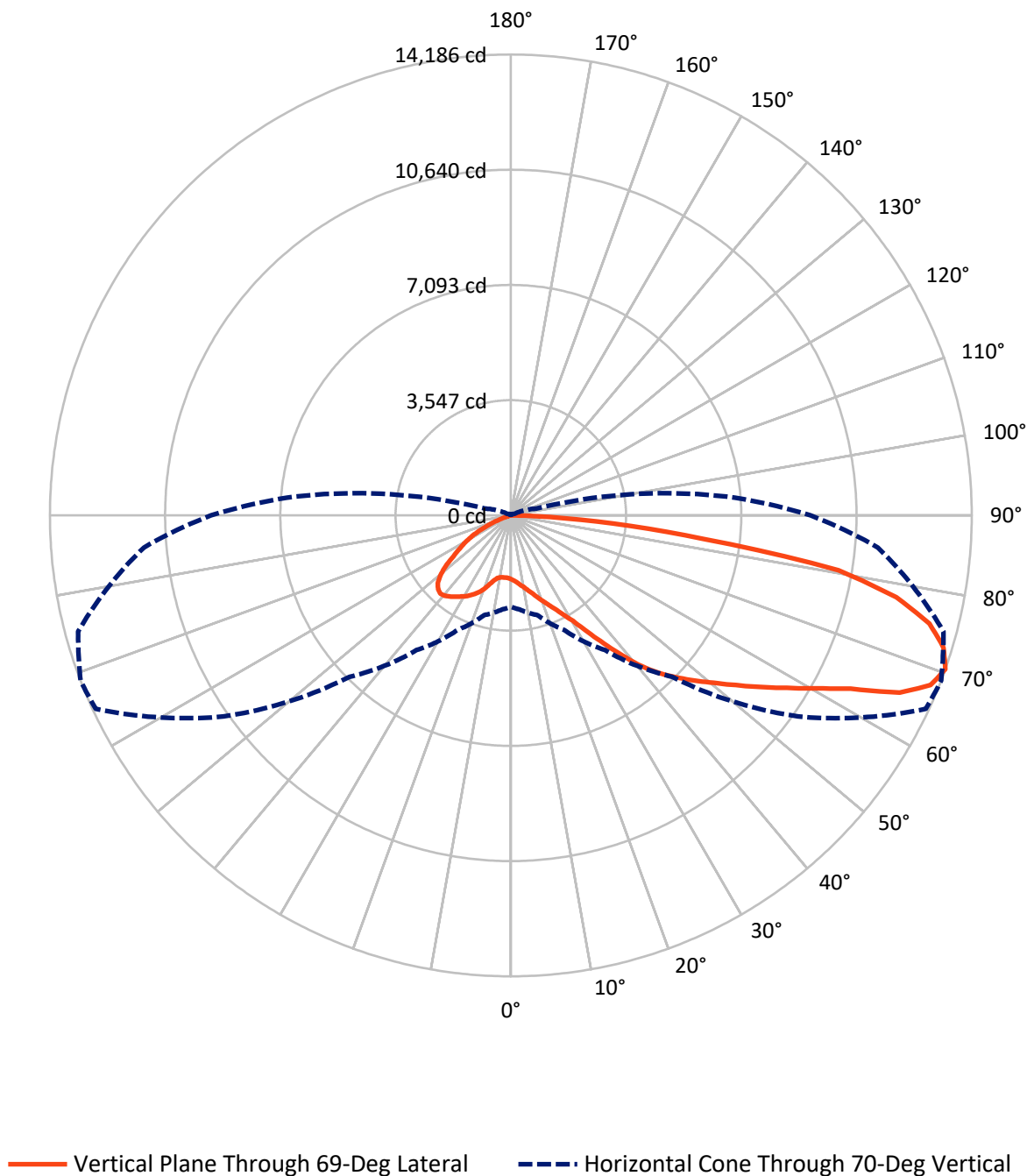


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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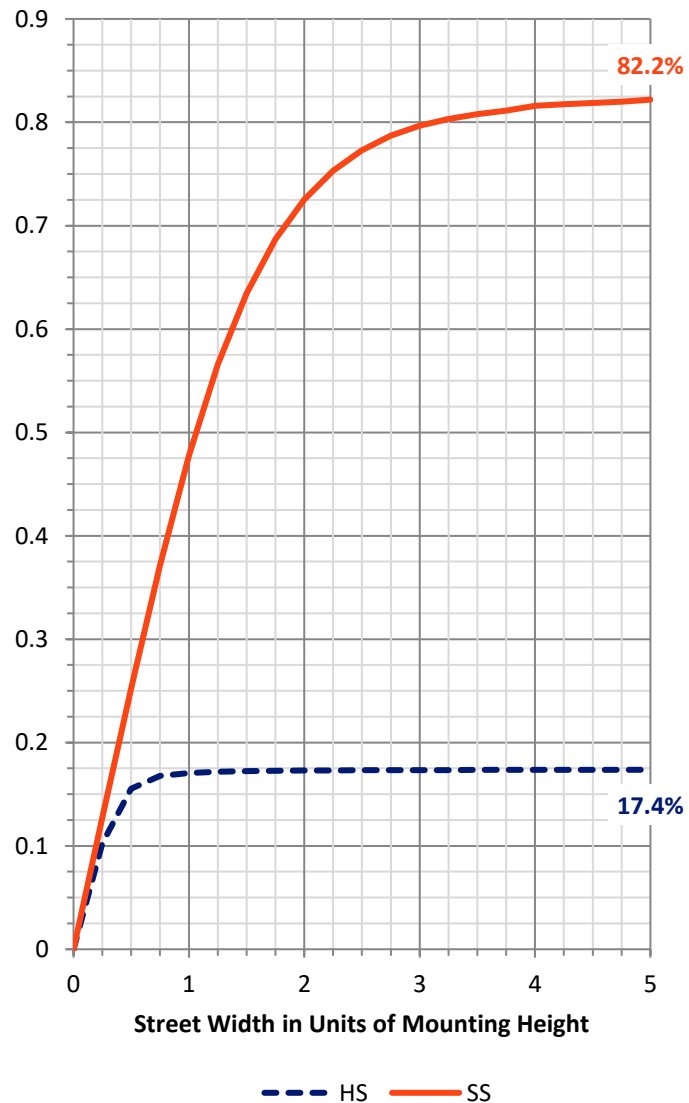
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3452.7	0.0	3452.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	16202.0	0.0	16202.0
	% Fixture	82.4	0.0	82.4
Total	Lumens	19654.8	0.0	19654.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	1.0
10°-20°	606.1	3.1
20°-30°	1111.8	5.7
30°-40°	1909.6	9.7
40°-50°	2984.3	15.2
50°-60°	3985.5	20.3
60°-70°	4664.1	23.7
70°-80°	3503.7	17.8
80°-90°	698.5	3.6
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°	19654.8	100.0
0°-180°	19654.8	100.0

Coefficient of Utilization



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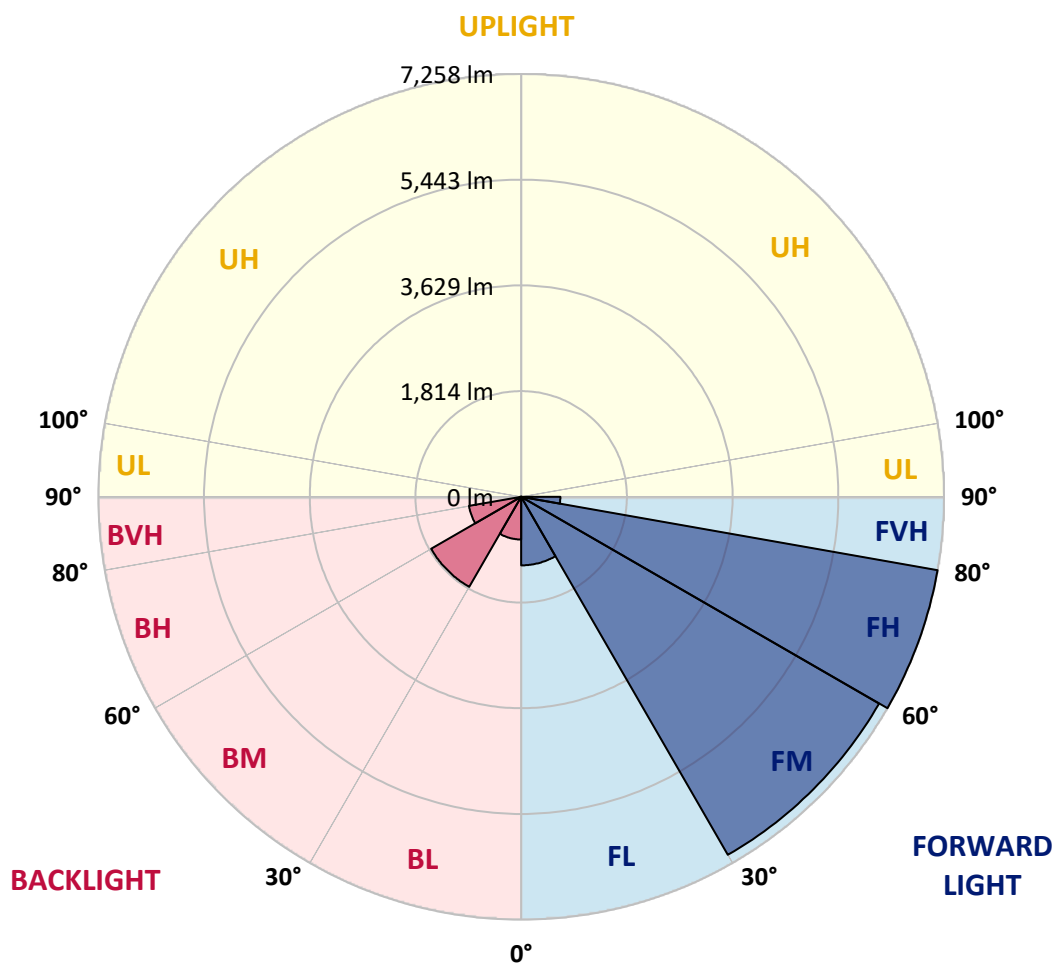
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1176.4	6.0			
FM	(30°-60°)	7095.1	36.1			
FH	(60°-80°)	7257.9	36.9			G3/7500
FVH	(80°-90°)	672.6	3.4			G4/750
BL	(0°-30°)	732.6	3.7	B2/1000		
BM	(30°-60°)	1784.3	9.1	B2/2500		
BH	(60°-80°)	909.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	25.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3
2.5°	2101.7	2116.5	2107.0	2073.2	2066.8	2064.7	2042.5	2023.5	2011.8	2008.6	1972.7
5°	2215.9	2227.6	2224.4	2186.4	2175.8	2151.5	2132.4	2082.7	2075.3	2064.7	2021.3
7.5°	2301.7	2303.8	2322.8	2291.1	2280.5	2250.9	2223.4	2177.9	2169.4	2152.6	2091.2
10°	2381.0	2395.8	2406.4	2366.1	2383.1	2346.1	2313.2	2281.5	2246.7	2245.6	2168.3
12.5°	2431.7	2440.2	2463.5	2431.7	2456.1	2455.0	2425.4	2389.4	2369.3	2351.4	2263.5
15°	2463.5	2473.0	2503.7	2528.0	2536.4	2550.2	2549.2	2521.6	2486.7	2480.4	2389.4
17.5°	2513.2	2521.6	2544.9	2584.0	2613.7	2644.3	2668.7	2670.8	2649.6	2642.2	2558.7
20°	2588.3	2587.2	2599.9	2622.1	2678.2	2745.9	2799.8	2820.0	2811.5	2810.4	2749.1
22.5°	2667.7	2663.4	2676.0	2686.6	2744.8	2858.0	2946.8	2997.6	3000.8	2994.4	2983.8
25°	2794.5	2773.4	2772.4	2783.9	2861.2	2992.3	3108.7	3195.4	3203.9	3220.8	3314.9
27.5°	3117.2	3114.0	3019.9	2939.4	2991.2	3140.4	3311.8	3426.0	3465.1	3529.7	3707.4
30°	3581.5	3563.5	3524.4	3337.2	3197.5	3334.0	3549.8	3726.4	3767.6	3997.2	4155.9
32.5°	3998.3	3978.1	3962.3	3788.8	3596.3	3565.6	3782.5	4083.9	4202.4	4557.8	4676.3
35°	4362.1	4350.5	4350.5	4234.1	4039.5	3907.3	4061.7	4464.7	4749.2	5246.4	5278.1
37.5°	4692.2	4701.6	4714.3	4586.4	4486.9	4444.6	4433.0	4936.5	5360.7	5883.2	5887.3
40°	4984.1	5005.3	5030.6	4937.5	4869.8	4906.8	4838.1	5505.5	6033.4	6600.3	6467.0
42.5°	5211.5	5240.0	5368.1	5239.0	5288.7	5363.8	5349.0	5957.2	6610.9	7125.0	6995.9
45°	5380.7	5402.9	5480.1	5517.2	5635.6	5785.8	5818.6	6420.5	7105.9	7603.0	7427.5
47.5°	5513.0	5497.1	5543.6	5732.9	5982.6	6150.7	6280.9	6951.5	7590.4	8045.2	7805.1
50°	5574.3	5572.2	5687.4	5920.2	6285.1	6525.2	6774.8	7644.3	8097.0	8467.2	8195.4
52.5°	5619.8	5656.8	5838.7	6110.5	6586.5	6914.5	7176.8	8314.9	8673.5	8931.6	8623.8
55°	5653.6	5725.6	5904.3	6215.3	6793.9	7249.7	7598.8	8924.1	9318.6	9370.5	9009.8
57.5°	5443.1	5519.3	5801.7	6246.0	6955.7	7539.6	8033.5	9623.3	10017.9	9987.1	9423.4
60°	5086.7	5148.0	5492.8	6158.1	6975.8	7862.1	8655.5	10400.7	10801.7	10797.4	9913.1
62.5°	4710.1	4765.1	5105.8	5868.3	6841.4	8037.8	9381.1	11567.4	11734.6	11568.5	10359.5
65°	4230.9	4287.0	4625.5	5381.7	6510.3	8028.2	9993.5	12815.6	13151.9	12671.7	10862.0
67.5°	3596.3	3686.2	3991.9	4692.2	5872.6	7722.5	10524.5	13757.0	13936.7	13503.1	11174.0
70°	2813.6	2901.4	3177.5	3892.5	5059.1	7023.4	10785.8	14094.3	14186.4	13785.5	11337.9
72.5°	1965.3	2038.3	2163.0	2781.8	3931.6	5944.4	10769.9	13931.4	13927.3	13520.0	10964.6
75°	700.3	798.6	1304.2	1680.8	2289.0	4371.7	10065.4	13260.8	13307.4	12938.3	10195.5
77.5°	181.9	190.4	401.9	811.2	1286.2	2114.4	7475.1	12001.1	12127.0	11698.5	8964.3
80°	133.2	139.6	193.5	564.8	736.2	930.8	4099.8	9833.8	10224.1	10000.9	6873.1
82.5°	94.1	101.5	141.7	372.3	486.6	618.8	1540.0	5340.5	5960.3	5924.4	3392.2
85°	59.2	64.5	88.8	133.2	185.1	248.5	433.7	2741.6	3145.7	3316.0	1482.9
87.5°	27.5	31.7	49.7	79.3	113.2	131.1	131.1	588.1	733.0	778.5	316.3
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°	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3	1965.3
2.5°	1953.6	1966.3	1938.9	1923.0	1890.2	1874.3	1865.8	1849.9	1845.7	1853.1	1860.5
5°	1999.1	2002.3	1946.2	1898.6	1857.4	1810.8	1788.7	1742.1	1722.0	1729.4	1737.8
7.5°	2057.3	2052.0	1966.3	1895.4	1821.4	1756.9	1711.4	1637.3	1616.2	1610.9	1622.6
10°	2112.3	2085.9	1990.7	1894.4	1796.0	1707.2	1637.3	1559.1	1508.3	1502.0	1504.1
12.5°	2211.7	2160.9	2050.9	1915.6	1797.1	1699.8	1598.2	1482.9	1423.8	1404.7	1404.7
15°	2349.3	2264.6	2160.9	2005.4	1864.8	1726.3	1581.4	1431.1	1327.4	1281.9	1280.9
17.5°	2497.3	2425.4	2315.4	2130.3	1945.1	1748.4	1544.3	1349.7	1213.3	1148.7	1142.4
20°	2701.5	2660.2	2534.3	2280.5	2022.4	1751.6	1497.7	1249.2	1065.1	977.3	958.4
22.5°	2990.2	2934.1	2723.6	2397.9	2048.9	1725.2	1408.9	1087.4	861.0	745.7	734.1
25°	3288.6	3202.8	2907.7	2480.4	2068.9	1672.3	1280.9	863.1	618.8	510.9	497.1
27.5°	3618.5	3484.2	3065.3	2558.7	2044.7	1581.4	1054.6	600.8	401.9	333.2	319.5
30°	4001.4	3805.8	3234.6	2612.7	2018.2	1397.3	780.6	389.2	260.2	209.4	206.3
32.5°	4476.4	4205.6	3401.6	2639.0	1923.0	1157.2	504.5	248.5	160.8	135.3	131.1
35°	5043.3	4665.7	3625.9	2633.7	1767.5	837.7	316.3	145.9	106.8	102.6	102.6
37.5°	5580.6	5167.0	3894.6	2611.6	1521.1	534.2	180.9	95.2	93.1	106.8	113.2
40°	6124.3	5656.8	4184.4	2551.3	1209.0	321.6	100.5	84.6	88.8	104.7	111.1
42.5°	6597.1	6042.9	4464.7	2420.1	851.5	172.4	88.8	79.3	83.5	90.9	92.0
45°	6978.9	6401.5	4616.0	2236.1	504.5	109.0	84.6	76.2	73.0	76.2	77.3
47.5°	7389.4	6707.2	4738.7	1964.2	272.9	106.8	83.5	70.9	64.5	62.4	64.5
50°	7695.1	7031.8	4782.1	1562.3	143.8	102.6	79.3	64.5	58.2	62.4	63.5
52.5°	7990.2	7281.5	4761.9	1090.5	121.7	94.1	73.0	60.3	55.0	67.7	70.9
55°	8383.6	7589.3	4617.0	531.0	118.5	88.8	65.6	52.9	52.9	52.9	52.9
57.5°	8743.2	7800.9	4327.3	242.2	114.3	81.4	59.2	47.6	40.2	44.4	45.5
60°	9115.6	8127.6	3833.2	154.4	107.9	70.9	50.8	41.2	34.9	34.9	35.9
62.5°	9484.7	8197.5	3146.7	136.4	102.6	64.5	44.4	35.9	29.6	29.6	31.7
65°	9789.3	8081.1	2317.5	121.7	97.3	58.2	40.2	32.8	25.4	24.4	25.4
67.5°	9674.0	7513.1	1505.2	109.0	88.8	52.9	34.9	29.6	23.3	19.1	20.1
70°	9223.5	6657.4	813.4	104.7	80.3	48.6	31.7	26.4	21.2	15.9	15.9
72.5°	8497.9	5610.3	305.7	97.3	74.1	42.3	28.5	26.4	20.1	12.7	11.7
75°	7309.0	4236.2	144.9	87.8	62.4	38.1	28.5	27.5	20.1	8.5	7.4
77.5°	5863.0	2362.9	111.1	74.1	50.8	31.7	28.5	26.4	11.7	4.2	3.2
80°	3151.0	887.5	83.5	53.9	37.0	24.4	26.4	19.1	5.3	1.1	0.0
82.5°	1250.3	219.0	58.2	24.4	15.9	10.6	14.8	7.4	1.1	0.0	0.0
85°	315.2	85.6	35.9	12.7	8.5	5.3	2.1	0.0	0.0	0.0	0.0
87.5°	35.9	24.4	10.6	6.4	3.2	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)