

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-BZ-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-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18544 lumens
Efficiency: N/A
Efficacy: 121.2 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

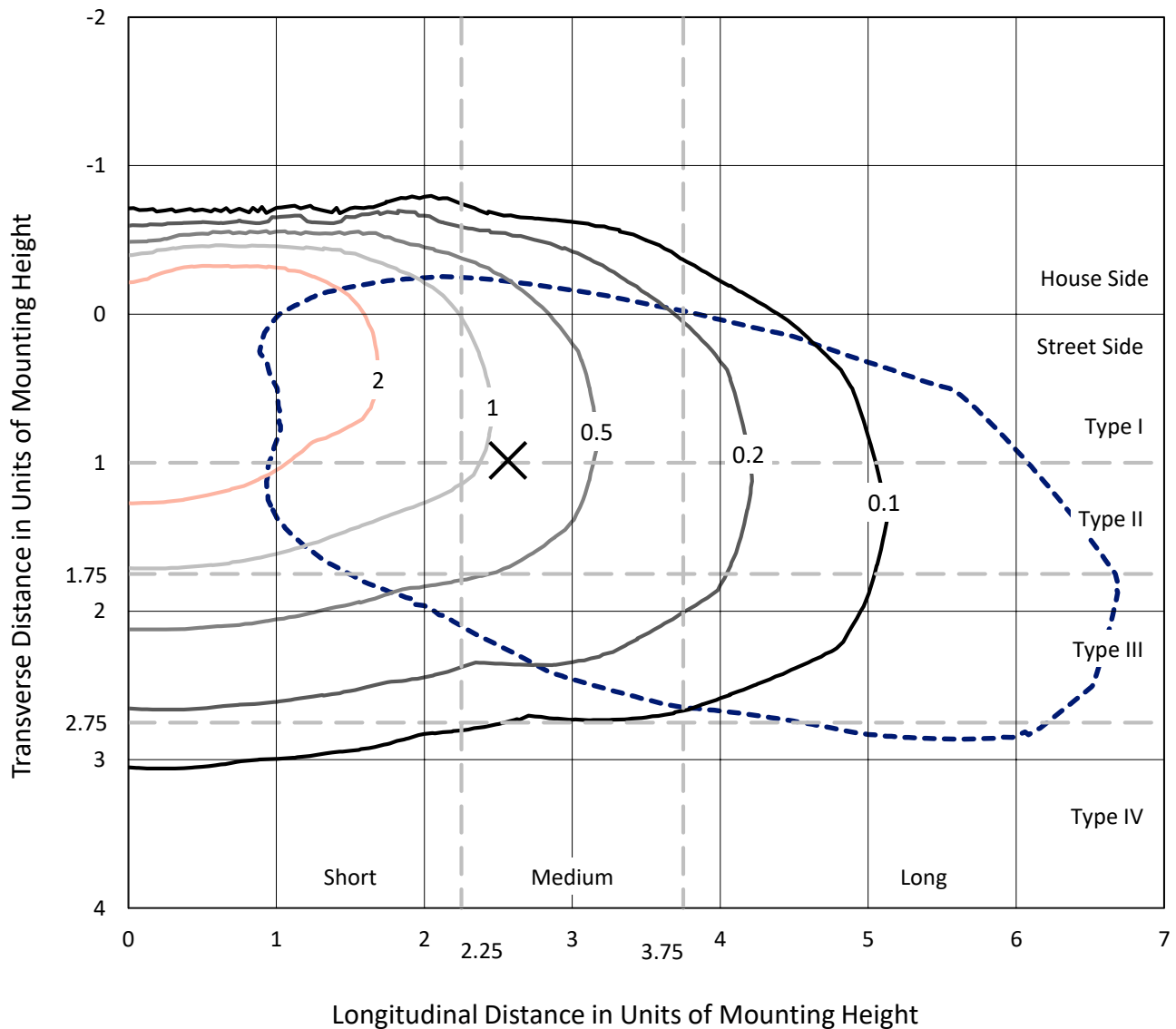


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

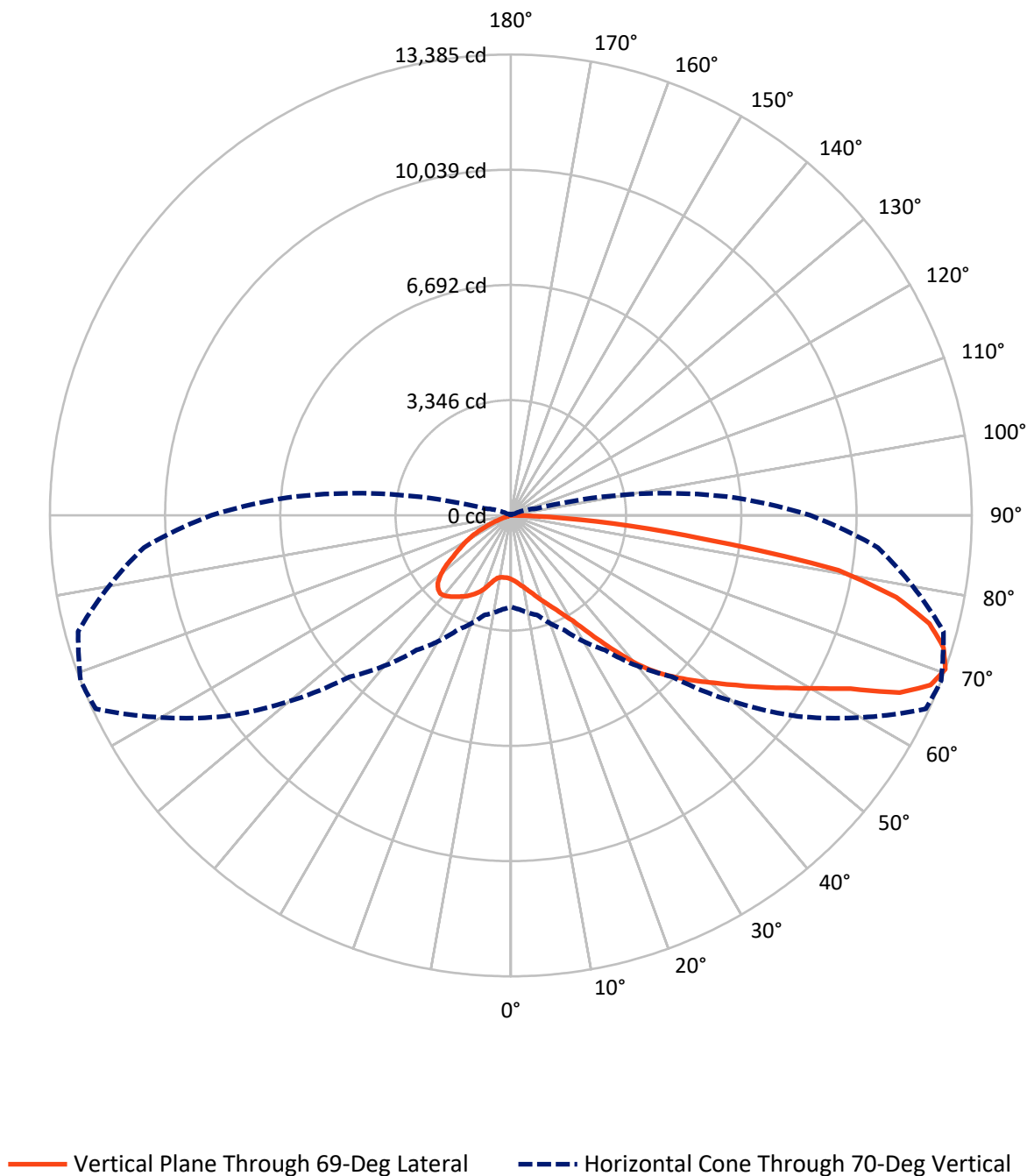


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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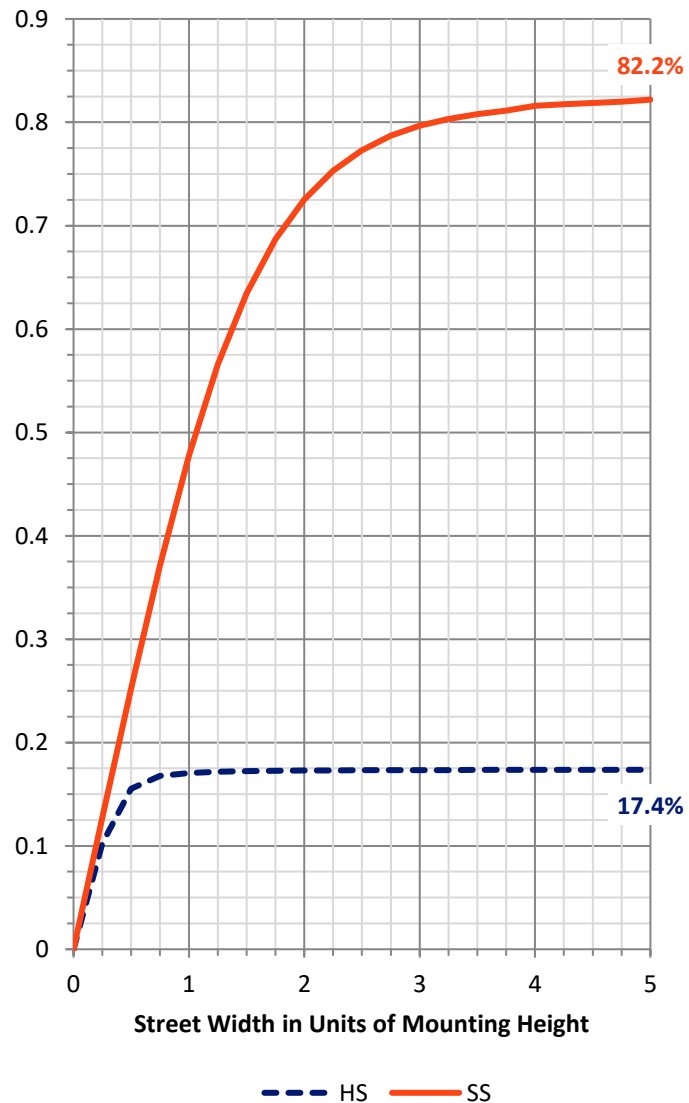
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3257.6	0.0	3257.6
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	15286.4	0.0	15286.4
	% Fixture	82.4	0.0	82.4
Total	Lumens	18544.0	0.0	18544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	1.0
10°-20°	571.9	3.1
20°-30°	1049.0	5.7
30°-40°	1801.7	9.7
40°-50°	2815.6	15.2
50°-60°	3760.3	20.3
60°-70°	4400.5	23.7
70°-80°	3305.7	17.8
80°-90°	659.0	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°	18544.0	100.0
0°-180°	18544.0	100.0

Coefficient of Utilization



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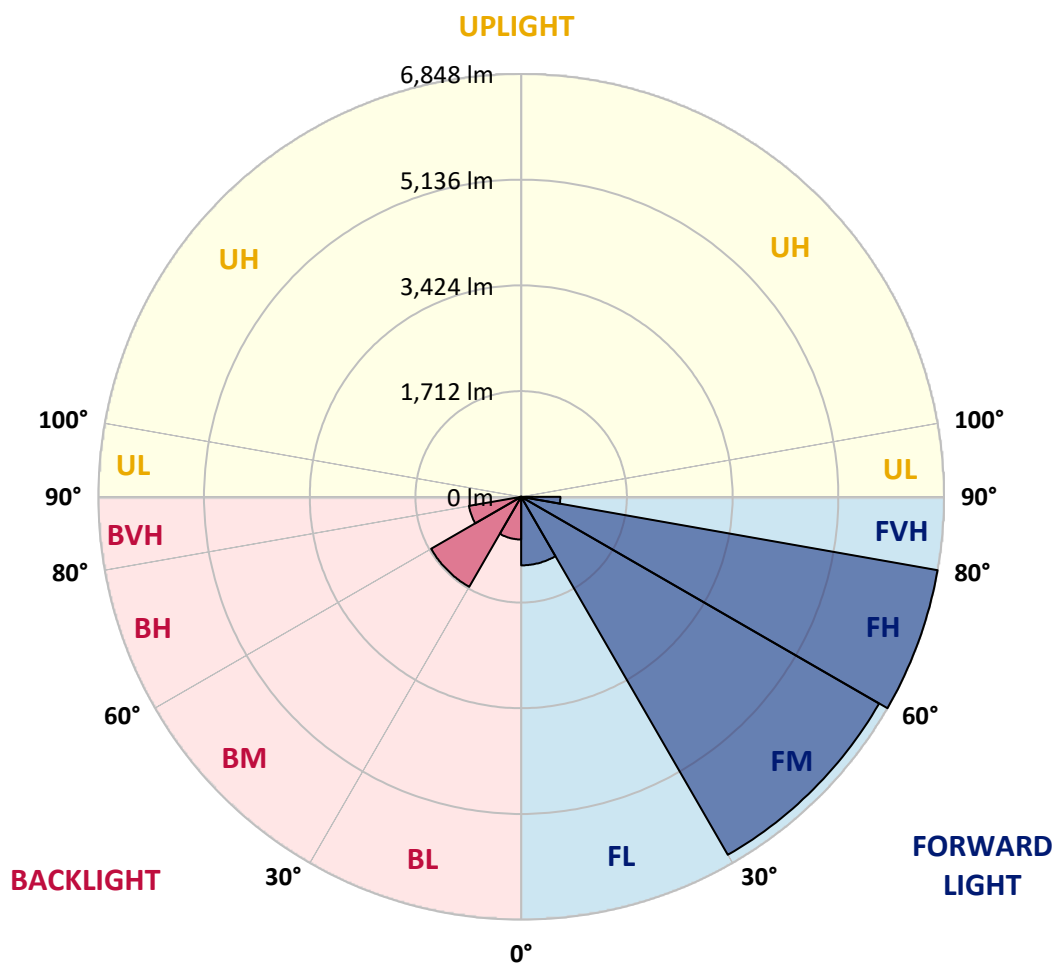
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1109.9	6.0			
FM	(30°-60°)	6694.1	36.1			
FH	(60°-80°)	6847.8	36.9			G3/7500
FVH	(80°-90°)	634.6	3.4			G4/750
BL	(0°-30°)	691.2	3.7	B2/1000		
BM	(30°-60°)	1683.5	9.1	B2/2500		
BH	(60°-80°)	858.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	24.4	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°	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2
2.5°	1982.9	1996.9	1987.9	1956.0	1950.0	1948.0	1927.1	1909.1	1898.1	1895.1	1861.2
5°	2090.7	2101.7	2098.7	2062.8	2052.8	2029.9	2011.9	1965.0	1958.0	1948.0	1907.1
7.5°	2171.6	2173.6	2191.5	2161.6	2151.6	2123.7	2097.7	2054.8	2046.8	2030.9	1973.0
10°	2246.4	2260.4	2270.4	2232.4	2248.4	2213.5	2182.5	2152.6	2119.7	2118.7	2045.8
12.5°	2294.3	2302.3	2324.3	2294.3	2317.3	2316.3	2288.3	2254.4	2235.4	2218.5	2135.6
15°	2324.3	2333.2	2362.2	2385.1	2393.1	2406.1	2405.1	2379.1	2346.2	2340.2	2254.4
17.5°	2371.2	2379.1	2401.1	2438.0	2466.0	2494.9	2517.9	2519.9	2499.9	2492.9	2414.1
20°	2442.0	2441.0	2453.0	2473.9	2526.8	2590.7	2641.6	2660.6	2652.6	2651.6	2593.7
22.5°	2516.9	2512.9	2524.8	2534.8	2589.7	2696.5	2780.3	2828.2	2831.2	2825.2	2815.2
25°	2636.6	2616.7	2615.7	2626.6	2699.5	2823.2	2933.0	3014.8	3022.8	3038.8	3127.6
27.5°	2941.0	2938.0	2849.2	2773.3	2822.2	2962.9	3124.6	3232.4	3269.3	3330.2	3497.9
30°	3379.1	3362.1	3325.2	3148.6	3016.8	3145.6	3349.2	3515.8	3554.7	3771.3	3921.0
32.5°	3772.3	3753.3	3738.4	3574.7	3393.1	3364.1	3568.7	3853.1	3964.9	4300.2	4412.0
35°	4115.6	4104.6	4104.6	3994.8	3811.2	3686.5	3832.2	4212.4	4480.8	4949.9	4979.8
37.5°	4427.0	4435.9	4447.9	4327.2	4233.3	4193.4	4182.5	4657.5	5057.7	5550.7	5554.6
40°	4702.4	4722.4	4746.3	4658.5	4594.6	4629.5	4564.7	5194.4	5692.4	6227.3	6101.5
42.5°	4917.0	4943.9	5064.7	4942.9	4989.8	5060.7	5046.7	5620.5	6237.3	6722.3	6600.5
45°	5076.6	5097.6	5170.4	5205.4	5317.1	5458.8	5489.8	6057.6	6704.3	7173.3	7007.7
47.5°	5201.4	5186.4	5230.3	5408.9	5644.5	5803.1	5925.9	6558.6	7161.4	7590.5	7364.0
50°	5259.3	5257.3	5366.0	5585.6	5929.9	6156.4	6391.9	7212.3	7639.4	7988.7	7732.2
52.5°	5302.2	5337.1	5508.7	5765.2	6214.3	6523.7	6771.2	7845.0	8183.3	8426.8	8136.4
55°	5334.1	5402.0	5570.6	5864.0	6409.9	6840.0	7169.4	8419.8	8792.0	8840.9	8500.6
57.5°	5135.5	5207.4	5473.8	5893.0	6562.6	7113.5	7579.5	9079.4	9451.7	9422.7	8890.8
60°	4799.2	4857.1	5182.4	5810.1	6581.6	7417.8	8166.3	9812.9	10191.2	10187.2	9352.9
62.5°	4443.9	4495.8	4817.2	5536.7	6454.8	7583.5	8850.9	10913.7	11071.4	10914.7	9774.0
65°	3991.8	4044.7	4364.1	5077.6	6142.4	7574.5	9428.7	12091.3	12408.6	11955.6	10248.1
67.5°	3393.1	3477.9	3766.3	4427.0	5540.7	7286.1	9929.7	12979.5	13149.1	12740.0	10542.5
70°	2654.6	2737.4	2997.9	3672.5	4773.2	6626.5	10176.2	13297.8	13384.7	13006.4	10697.1
72.5°	1854.2	1923.1	2040.8	2624.6	3709.4	5608.5	10161.2	13144.1	13140.2	12755.9	10344.9
75°	660.7	753.5	1230.5	1585.8	2159.6	4124.6	9496.6	12511.4	12555.3	12207.1	9619.3
77.5°	171.6	179.6	379.2	765.4	1213.5	1994.9	7052.6	11322.9	11441.6	11037.4	8457.7
80°	125.7	131.7	182.6	532.9	694.6	878.2	3868.1	9278.0	9646.3	9435.7	6484.7
82.5°	88.8	95.8	133.7	351.3	459.1	583.8	1453.0	5038.7	5623.5	5589.6	3200.5
85°	55.9	60.9	83.8	125.7	174.6	234.5	409.2	2586.7	2967.9	3128.6	1399.1
87.5°	25.9	29.9	46.9	74.8	106.8	123.7	123.7	554.9	691.6	734.5	298.4
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°	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2
2.5°	1843.2	1855.2	1829.3	1814.3	1783.4	1768.4	1760.4	1745.4	1741.4	1748.4	1755.4
5°	1886.1	1889.1	1836.2	1791.3	1752.4	1708.5	1687.6	1643.6	1624.7	1631.7	1639.6
7.5°	1941.0	1936.0	1855.2	1788.3	1718.5	1657.6	1614.7	1544.8	1524.9	1519.9	1530.9
10°	1992.9	1968.0	1878.2	1787.3	1694.5	1610.7	1544.8	1471.0	1423.1	1417.1	1419.1
12.5°	2086.7	2038.8	1935.0	1807.3	1695.5	1603.7	1507.9	1399.1	1343.3	1325.3	1325.3
15°	2216.5	2136.6	2038.8	1892.1	1759.4	1628.7	1492.0	1350.2	1252.4	1209.5	1208.5
17.5°	2356.2	2288.3	2184.5	2009.9	1835.2	1649.6	1457.0	1273.4	1144.7	1083.8	1077.8
20°	2548.8	2509.9	2391.1	2151.6	1908.1	1652.6	1413.1	1178.6	1004.9	922.1	904.2
22.5°	2821.2	2768.3	2569.7	2262.4	1933.1	1627.7	1329.3	1025.9	812.3	703.6	692.6
25°	3102.7	3021.8	2743.4	2340.2	1952.0	1577.8	1208.5	814.3	583.8	482.0	469.0
27.5°	3414.0	3287.3	2892.1	2414.1	1929.1	1492.0	995.0	566.8	379.2	314.4	301.4
30°	3775.3	3590.7	3051.8	2465.0	1904.1	1318.3	736.5	367.2	245.5	197.6	194.6
32.5°	4223.4	3967.9	3209.4	2489.9	1814.3	1091.8	476.0	234.5	151.7	127.7	123.7
35°	4758.3	4402.0	3421.0	2484.9	1667.6	790.4	298.4	137.7	100.8	96.8	96.8
37.5°	5265.2	4875.0	3674.5	2464.0	1435.1	504.0	170.7	89.8	87.8	100.8	106.8
40°	5778.2	5337.1	3947.9	2407.1	1140.7	303.4	94.8	79.8	83.8	98.8	104.8
42.5°	6224.3	5701.4	4212.4	2283.3	803.4	162.7	83.8	74.8	78.8	85.8	86.8
45°	6584.5	6039.7	4355.1	2109.7	476.0	102.8	79.8	71.9	68.9	71.9	72.9
47.5°	6971.8	6328.1	4470.9	1853.2	257.5	100.8	78.8	66.9	60.9	58.9	60.9
50°	7260.2	6634.4	4511.8	1474.0	135.7	96.8	74.8	60.9	54.9	58.9	59.9
52.5°	7538.6	6870.0	4492.8	1028.9	114.8	88.8	68.9	56.9	51.9	63.9	66.9
55°	7909.8	7160.4	4356.1	501.0	111.8	83.8	61.9	49.9	49.9	49.9	49.9
57.5°	8249.1	7360.0	4082.7	228.5	107.8	76.8	55.9	44.9	37.9	41.9	42.9
60°	8600.4	7668.3	3616.6	145.7	101.8	66.9	47.9	38.9	32.9	32.9	33.9
62.5°	8948.7	7734.2	2968.9	128.7	96.8	60.9	41.9	33.9	27.9	27.9	29.9
65°	9236.1	7624.4	2186.5	114.8	91.8	54.9	37.9	30.9	24.0	23.0	24.0
67.5°	9127.3	7088.5	1420.1	102.8	83.8	49.9	32.9	27.9	22.0	18.0	19.0
70°	8702.2	6281.2	767.4	98.8	75.8	45.9	29.9	24.9	20.0	15.0	15.0
72.5°	8017.6	5293.2	288.4	91.8	69.9	39.9	26.9	24.9	19.0	12.0	11.0
75°	6895.9	3996.8	136.7	82.8	58.9	35.9	26.9	25.9	19.0	8.0	7.0
77.5°	5531.7	2229.4	104.8	69.9	47.9	29.9	26.9	24.9	11.0	4.0	3.0
80°	2972.9	837.3	78.8	50.9	34.9	23.0	24.9	18.0	5.0	1.0	0.0
82.5°	1179.6	206.6	54.9	23.0	15.0	10.0	14.0	7.0	1.0	0.0	0.0
85°	297.4	80.8	33.9	12.0	8.0	5.0	2.0	0.0	0.0	0.0	0.0
87.5°	33.9	23.0	10.0	6.0	3.0	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)