

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: P157413

Luminaire Tested: **VST-F11-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157413
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F11-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (77) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24516.4 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 282.7
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

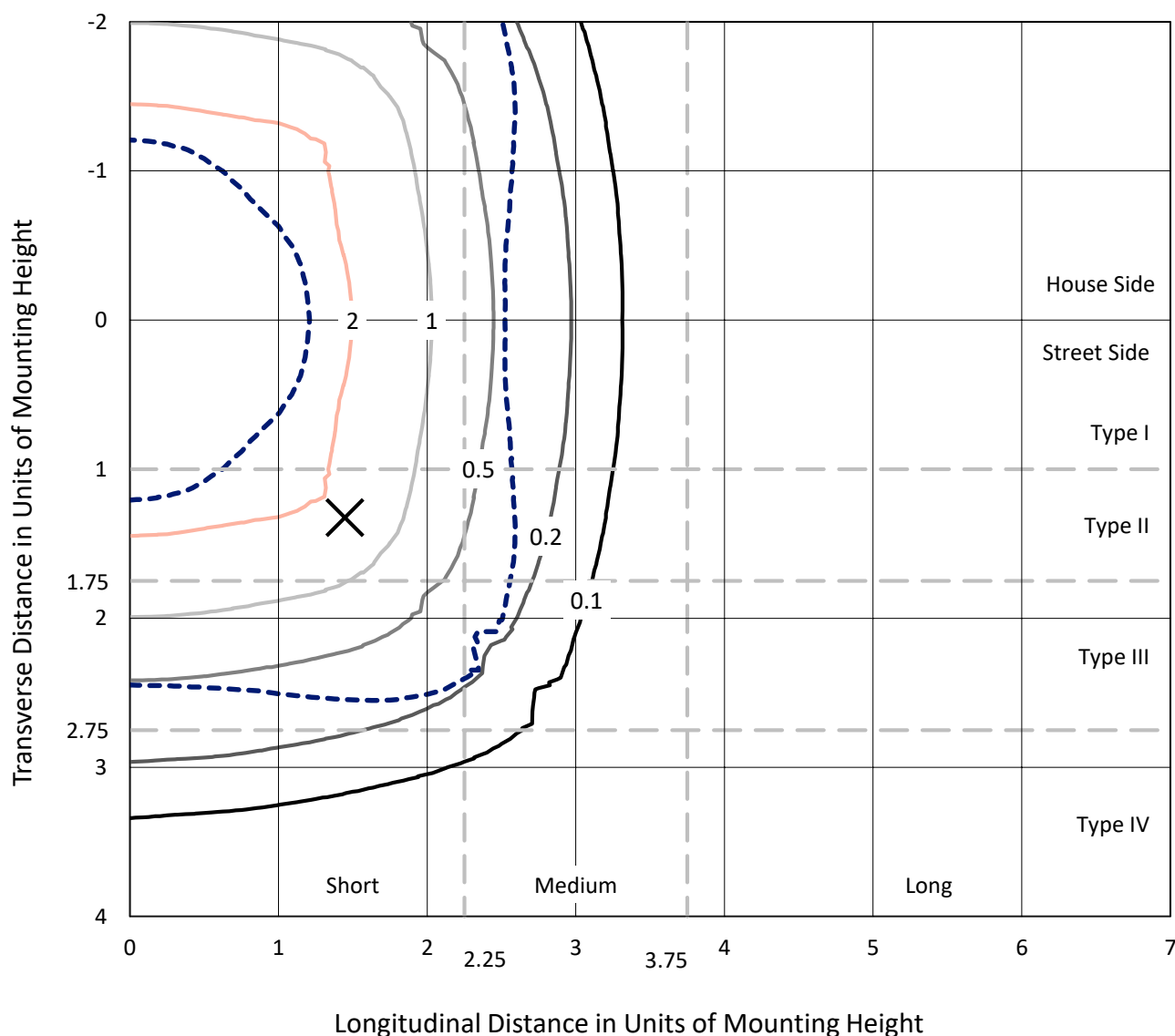


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

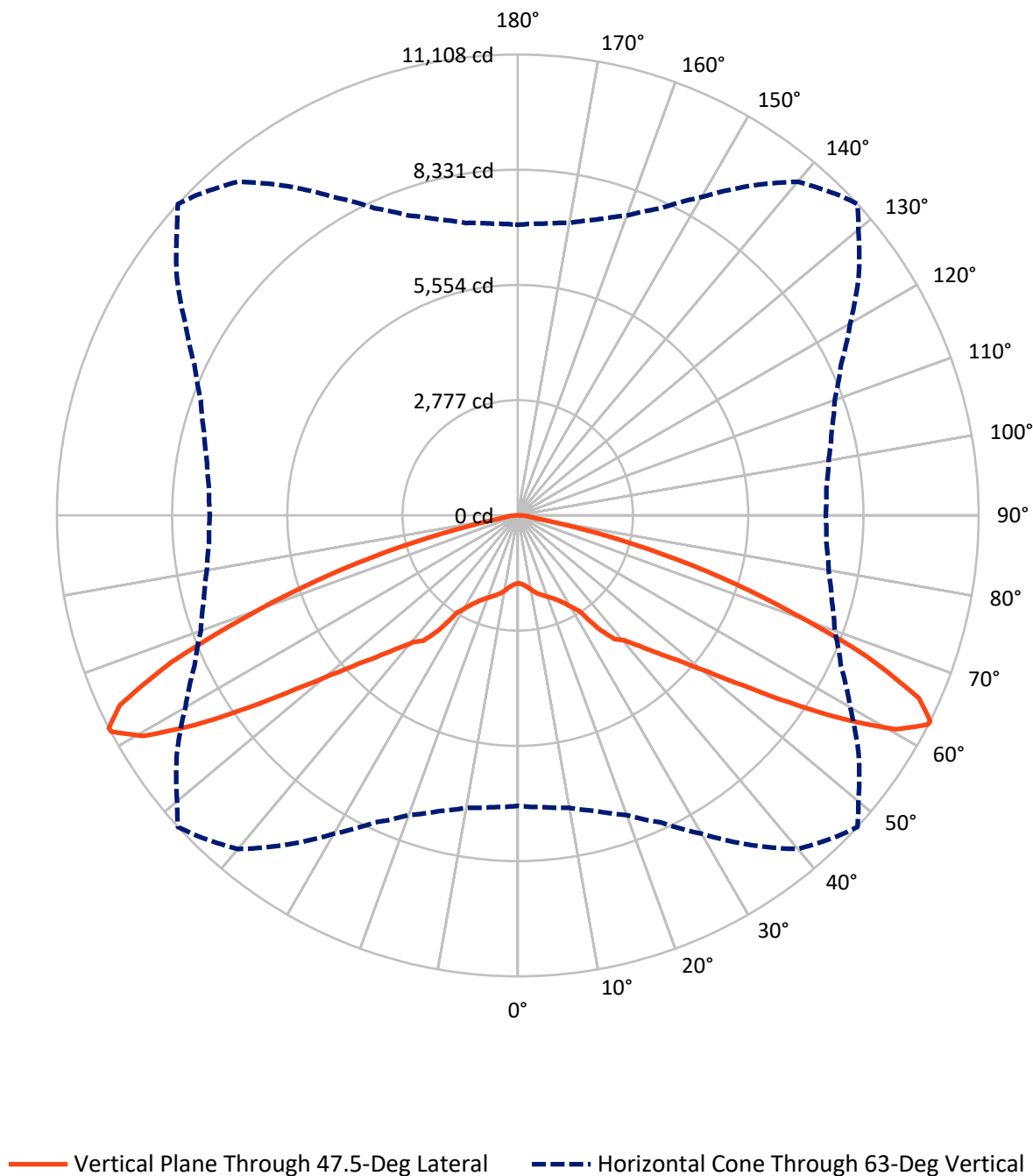


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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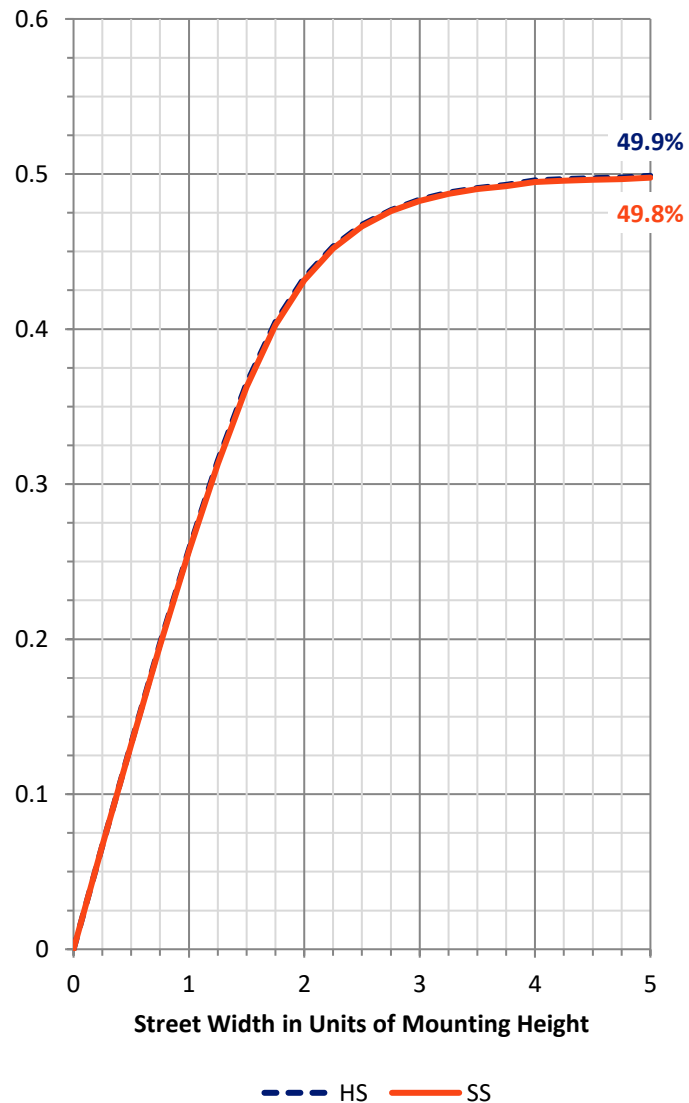
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12258.2	0.0	12258.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12258.2	0.0	12258.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	24516.4	0.0	24516.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	0.7
10°-20°	558.7	2.3
20°-30°	1068.6	4.4
30°-40°	2044.2	8.3
40°-50°	3537.1	14.4
50°-60°	6352.5	25.9
60°-70°	7724.7	31.5
70°-80°	2789.8	11.4
80°-90°	276.3	1.1
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°	24516.4	100.0
0°-180°	24516.4	100.0

Coefficient of Utilization



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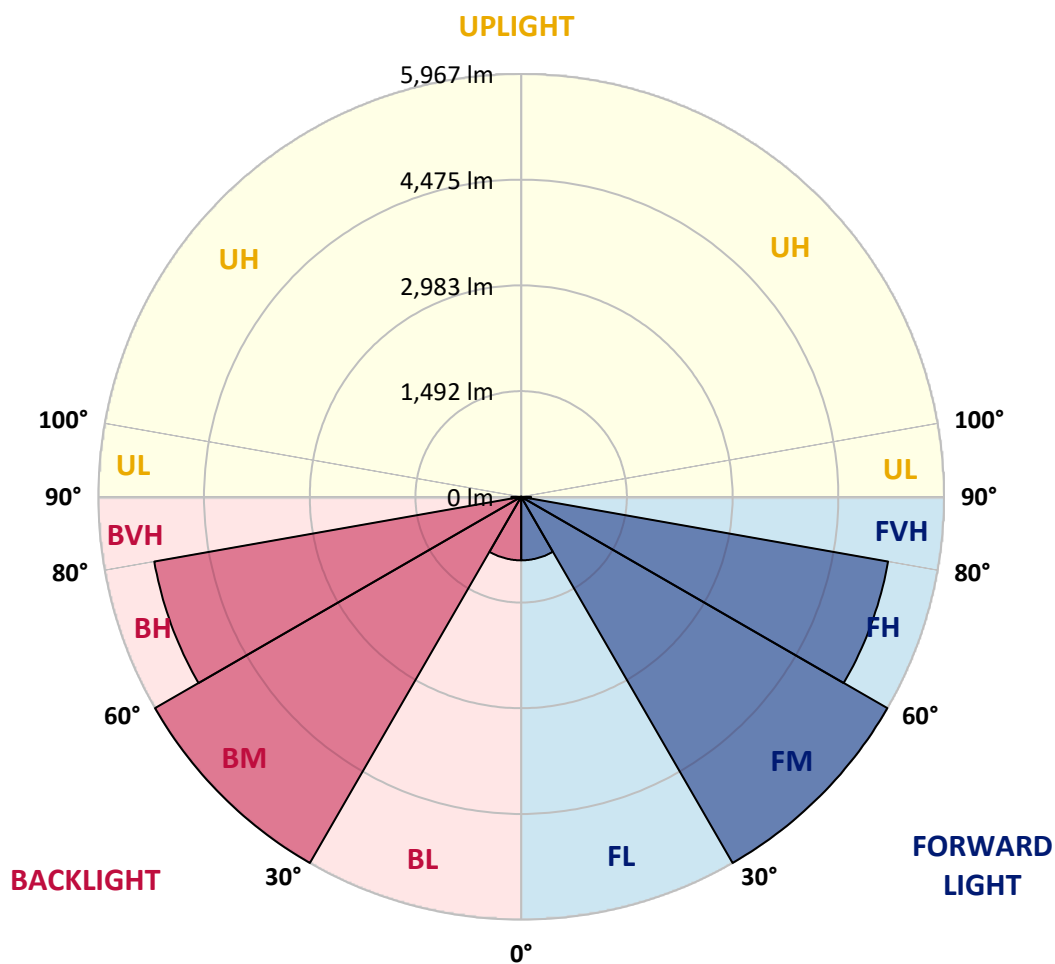
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	895.8	3.7			
FM	(30°-60°)	5966.9	24.3			
FH	(60°-80°)	5257.3	21.4			G3/7500
FVH	(80°-90°)	138.2	0.6			G2/225
BL	(0°-30°)	895.8	3.7	B2/1000		
BM	(30°-60°)	5966.9	24.3	B4/8500		
BH	(60°-80°)	5257.3	21.4	B5		G3/7500
BVH	(80°-90°)	138.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0
2.5°	1647.8	1644.7	1646.2	1647.8	1646.2	1644.7	1644.7	1644.7	1647.8	1644.7	1652.4
5°	1680.0	1676.9	1678.4	1678.4	1678.4	1675.4	1675.4	1675.4	1673.8	1675.4	1692.2
7.5°	1741.3	1736.7	1735.2	1738.2	1735.2	1733.6	1732.1	1732.1	1729.0	1729.0	1750.5
10°	1814.9	1808.7	1811.8	1813.3	1808.7	1805.7	1805.7	1805.7	1801.1	1799.5	1827.1
12.5°	1896.1	1893.0	1893.0	1890.0	1888.4	1885.4	1883.8	1885.4	1879.2	1879.2	1906.8
15°	1974.3	1968.1	1969.7	1965.1	1962.0	1958.9	1957.4	1955.9	1952.8	1952.8	1969.7
17.5°	2046.3	2041.7	2040.2	2035.6	2031.0	2026.4	2023.3	2021.8	2017.2	2017.2	2032.5
20°	2121.4	2116.8	2113.8	2106.1	2098.4	2093.8	2087.7	2084.6	2078.5	2080.0	2096.9
22.5°	2207.3	2199.6	2193.5	2187.3	2173.5	2164.3	2156.7	2150.5	2147.5	2147.5	2170.5
25°	2322.2	2317.6	2308.4	2288.5	2271.6	2257.8	2245.6	2239.4	2233.3	2230.3	2265.5
27.5°	2463.2	2458.6	2446.4	2426.5	2403.5	2380.5	2366.7	2355.9	2348.3	2343.7	2394.3
30°	2650.2	2642.6	2631.8	2599.7	2579.7	2544.5	2529.2	2513.8	2497.0	2501.6	2561.3
32.5°	3016.6	3005.9	2972.1	2936.9	2875.6	2828.0	2779.0	2742.2	2707.0	2702.4	2766.7
35°	3349.2	3344.6	3338.5	3314.0	3291.0	3261.8	3238.8	3200.5	3168.3	3160.7	3341.5
37.5°	3528.5	3539.3	3530.1	3527.0	3527.0	3540.8	3583.7	3626.6	3657.3	3675.7	3776.9
40°	3802.9	3802.9	3792.2	3786.1	3773.8	3792.2	3810.6	3842.8	3856.6	3858.1	3960.8
42.5°	4114.1	4115.6	4104.9	4086.5	4080.4	4097.2	4121.7	4152.4	4170.8	4175.4	4295.0
45°	4460.5	4455.9	4446.7	4440.6	4445.2	4460.5	4489.6	4549.4	4577.0	4598.5	4728.7
47.5°	4836.0	4866.7	4840.6	4845.2	4845.2	4892.8	4958.7	5007.7	5052.2	5093.6	5231.5
50°	5328.1	5332.7	5337.3	5351.1	5360.3	5423.1	5505.9	5564.1	5628.5	5682.2	5907.5
52.5°	5985.7	5976.5	5999.5	6014.8	6066.9	6100.6	6238.6	6312.1	6401.0	6470.0	6799.6
55°	6772.0	6767.4	6801.1	6813.4	6882.4	6965.1	7118.4	7279.4	7431.1	7515.4	7966.1
57.5°	7336.1	7348.3	7406.6	7487.8	7622.7	7799.0	8027.4	8383.0	8671.2	8763.1	9259.8
60°	7460.2	7500.1	7587.5	7749.9	7981.4	8309.4	8758.5	9302.7	9830.0	10006.2	10472.2
62.5°	7112.3	7158.3	7287.0	7481.7	7783.7	8269.6	8917.9	9685.9	10469.1	10861.5	11096.1
63°	7001.9	7058.6	7155.2	7380.5	7687.1	8166.9	8856.6	9684.3	10496.7	10924.4	11108.3
65°	6483.8	6494.6	6638.6	6864.0	7208.8	7707.0	8402.9	9359.4	10260.7	10754.3	10627.0
67.5°	5579.5	5623.9	5745.0	5971.9	6307.5	6825.6	7581.3	8465.8	9258.2	9652.2	9083.5
70°	4508.0	4505.0	4655.2	4837.6	5133.4	5588.7	6250.8	7049.4	7677.9	7964.5	7012.6
72.5°	3220.5	3140.7	3251.1	3453.4	3695.6	4058.9	4583.1	5203.9	5766.5	6014.8	5127.3
75°	1466.9	1445.4	1543.5	1744.3	1989.6	2313.0	2743.7	3280.2	3819.8	4111.0	3266.4
77.5°	493.6	499.7	538.0	610.1	741.9	904.4	1172.6	1516.0	1952.8	2241.0	1532.8
80°	331.1	340.3	352.5	363.3	378.6	403.1	461.4	550.3	685.2	829.3	484.4
82.5°	271.3	282.0	309.6	321.9	331.1	338.8	343.4	349.5	349.5	352.5	306.6
85°	194.7	213.1	249.8	272.8	282.0	288.2	295.8	305.0	291.2	279.0	237.6
87.5°	67.4	92.0	134.9	148.7	159.4	160.9	171.7	190.1	180.9	147.2	72.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0
2.5°	1644.7	1643.2	1644.7	1646.2	1646.2	1646.2	1647.8	1649.3	1649.3
5°	1675.4	1676.9	1675.4	1676.9	1676.9	1678.4	1678.4	1681.5	1681.5
7.5°	1727.5	1730.6	1729.0	1732.1	1732.1	1735.2	1733.6	1738.2	1738.2
10°	1798.0	1801.1	1804.1	1805.7	1804.1	1807.2	1810.3	1811.8	1810.3
12.5°	1877.7	1879.2	1877.7	1880.8	1880.8	1883.8	1883.8	1888.4	1888.4
15°	1951.3	1949.7	1948.2	1952.8	1955.9	1957.4	1960.5	1965.1	1960.5
17.5°	2017.2	2018.7	2015.7	2020.3	2026.4	2031.0	2034.0	2040.2	2038.6
20°	2083.1	2080.0	2083.1	2090.8	2096.9	2103.0	2109.2	2118.4	2116.8
22.5°	2147.5	2150.5	2158.2	2164.3	2175.1	2184.3	2191.9	2204.2	2208.8
25°	2237.9	2237.9	2250.2	2257.8	2273.2	2285.4	2302.3	2316.1	2323.8
27.5°	2352.9	2352.9	2366.7	2383.5	2406.5	2428.0	2446.4	2464.8	2461.7
30°	2509.2	2516.9	2529.2	2550.6	2581.3	2607.3	2631.8	2650.2	2651.8
32.5°	2714.6	2723.8	2760.6	2815.8	2880.2	2929.2	2966.0	3010.5	3016.6
35°	3180.6	3203.6	3251.1	3295.6	3321.6	3350.7	3369.1	3370.7	3373.7
37.5°	3671.1	3631.2	3594.5	3560.7	3545.4	3542.3	3542.3	3548.5	3551.5
40°	3850.4	3830.5	3813.7	3792.2	3798.3	3796.8	3807.5	3816.7	3822.8
42.5°	4157.0	4141.7	4126.3	4098.8	4114.1	4109.5	4124.8	4138.6	4146.3
45°	4584.7	4537.1	4503.4	4459.0	4474.3	4465.1	4465.1	4482.0	4485.0
47.5°	5056.8	5001.6	4932.6	4877.4	4859.0	4842.2	4857.5	4857.5	4840.6
50°	5622.4	5556.5	5475.2	5386.3	5355.7	5338.8	5344.9	5352.6	5305.1
52.5°	6390.3	6316.7	6201.8	6066.9	6037.8	6024.0	6020.9	6010.2	5997.9
55°	7431.1	7293.1	7152.1	6974.3	6920.7	6905.3	6906.9	6894.6	6923.7
57.5°	8658.9	8456.6	8131.6	7915.5	7786.7	7737.7	7693.2	7674.8	7676.4
60°	9874.4	9462.1	8976.2	8599.1	8329.3	8157.7	8022.8	7947.7	7926.2
62.5°	10657.7	10009.3	9279.7	8668.1	8225.1	7941.5	7728.5	7593.6	7550.7
63°	10719.0	10032.3	9252.1	8596.0	8130.1	7832.7	7608.9	7469.4	7423.4
65°	10585.6	9800.8	8891.9	8110.1	7599.7	7270.2	7028.0	6896.1	6860.9
67.5°	9549.5	8896.5	7970.7	7162.9	6647.8	6313.7	6036.2	5910.5	5870.7
70°	7768.3	7320.7	6562.0	5872.2	5392.5	5070.6	4790.1	4685.8	4684.3
72.5°	5758.8	5177.9	4725.7	4219.8	3801.4	3545.4	3301.7	3185.2	3126.9
75°	3809.1	3186.7	2680.9	2254.8	1837.8	1607.9	1333.6	1215.5	1146.5
77.5°	1919.1	1422.5	1019.3	706.6	548.7	450.6	412.3	392.4	390.9
80°	639.2	479.8	412.3	386.3	378.6	380.1	375.5	367.9	358.7
82.5°	354.1	372.5	375.5	364.8	364.8	358.7	352.5	323.4	308.1
85°	303.5	334.2	337.2	331.1	329.6	320.4	309.6	269.8	246.8
87.5°	190.1	219.2	214.6	191.6	211.5	197.7	187.0	121.1	88.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)