

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: P157362

Luminaire Tested: **VST-E06-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157362
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-E06-LED-E-U-5MQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19694.2 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 150.5
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

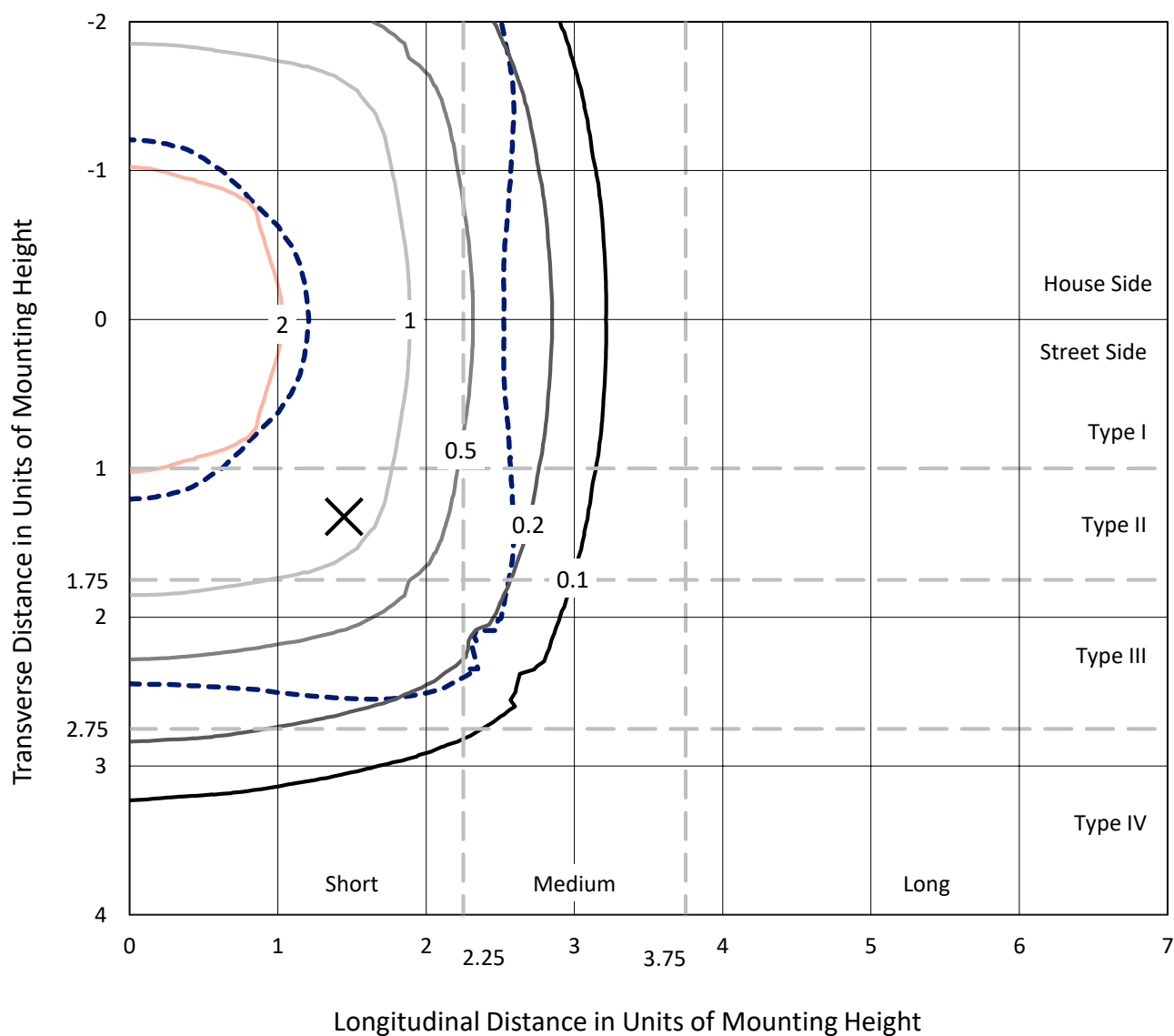


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

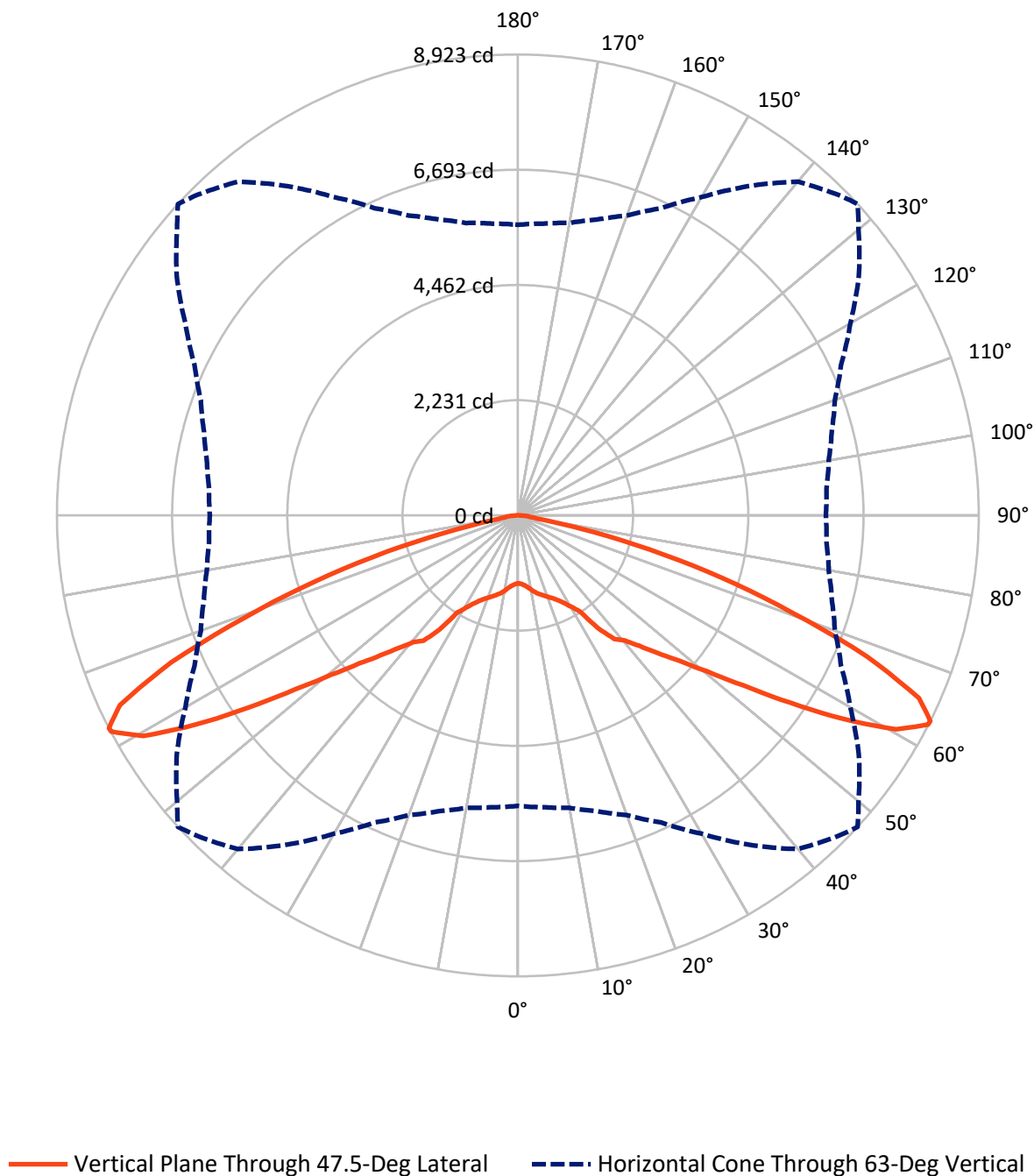


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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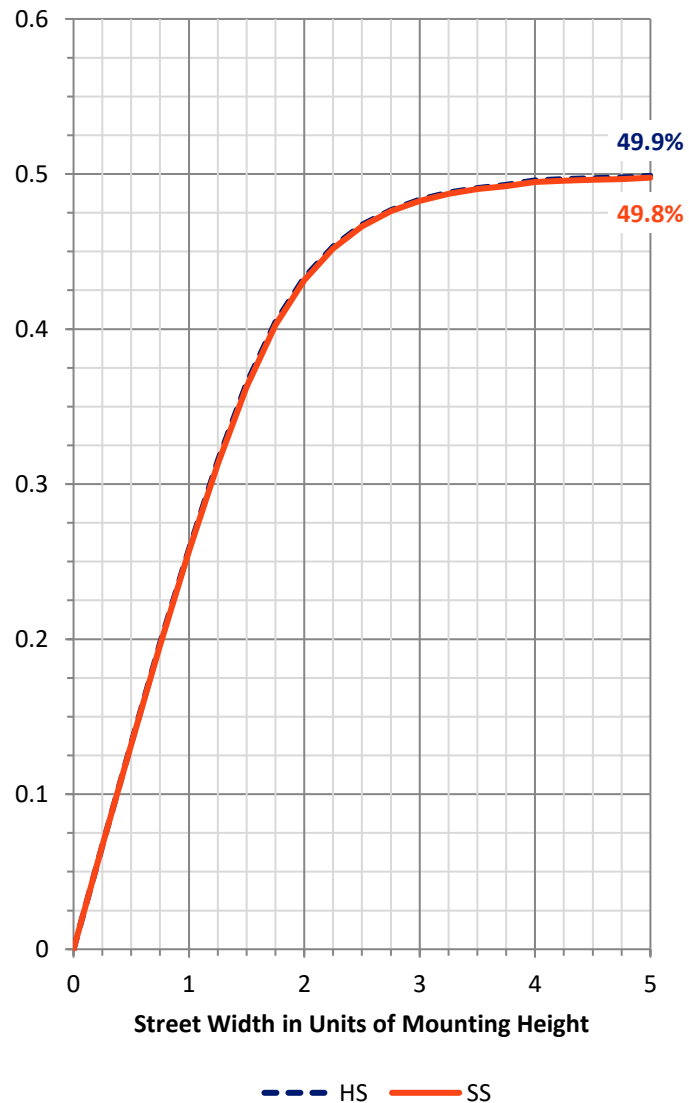
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9847.1	0.0	9847.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9847.1	0.0	9847.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	19694.2	0.0	19694.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	0.7
10°-20°	448.8	2.3
20°-30°	858.5	4.4
30°-40°	1642.1	8.3
40°-50°	2841.4	14.4
50°-60°	5103.0	25.9
60°-70°	6205.4	31.5
70°-80°	2241.1	11.4
80°-90°	222.0	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°	19694.2	100.0
0°-180°	19694.2	100.0

Coefficient of Utilization



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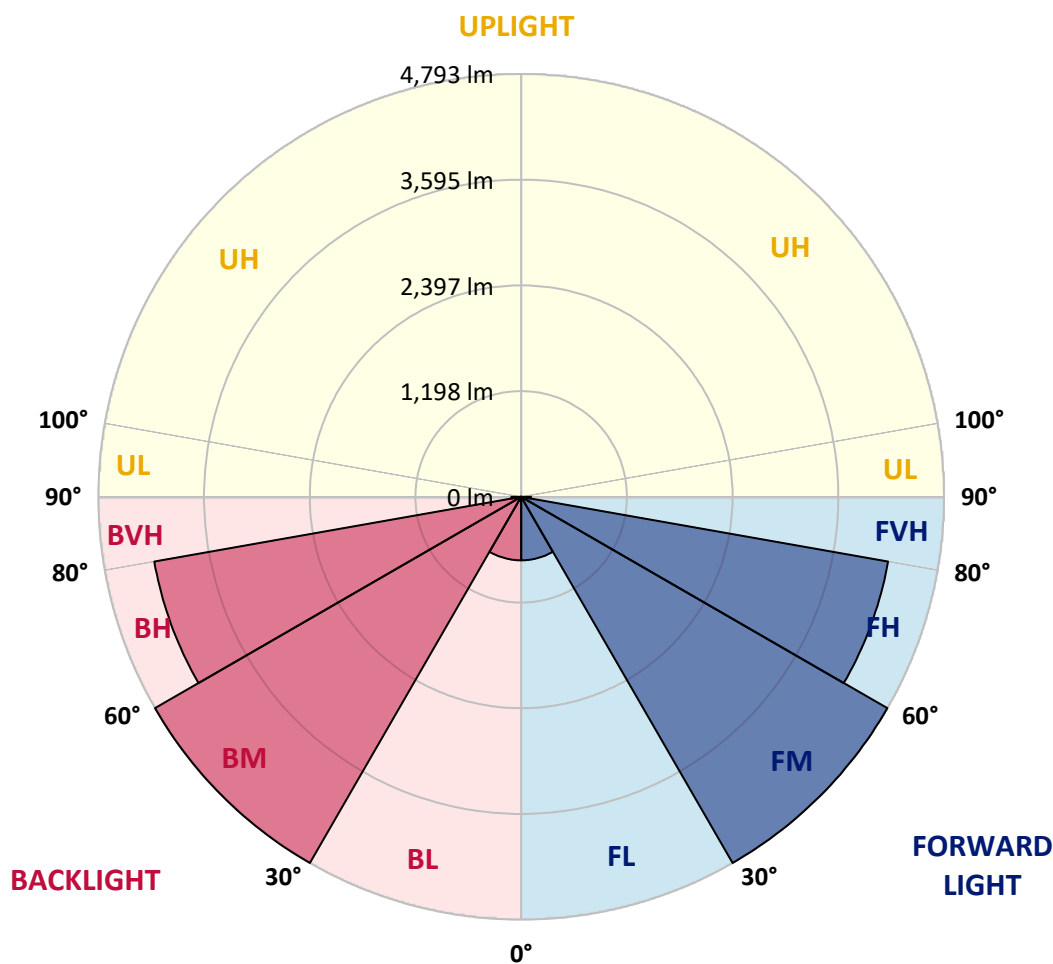
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.6	3.7			
FM	(30°-60°)	4793.3	24.3			
FH	(60°-80°)	4223.2	21.4			G2/5000
FVH	(80°-90°)	111.0	0.6			G2/225
BL	(0°-30°)	719.6	3.7	B2/1000		
BM	(30°-60°)	4793.3	24.3	B3/5000		
BH	(60°-80°)	4223.2	21.4	B4/5000		G2/5000
BVH	(80°-90°)	111.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1
2.5°	1323.7	1321.2	1322.4	1323.7	1322.4	1321.2	1321.2	1321.2	1323.7	1321.2	1327.4
5°	1349.5	1347.1	1348.3	1348.3	1348.3	1345.8	1345.8	1345.8	1344.6	1345.8	1359.4
7.5°	1398.8	1395.1	1393.9	1396.3	1393.9	1392.6	1391.4	1391.4	1388.9	1388.9	1406.2
10°	1457.9	1453.0	1455.4	1456.7	1453.0	1450.5	1450.5	1450.5	1446.8	1445.6	1467.7
12.5°	1523.2	1520.7	1520.7	1518.2	1517.0	1514.5	1513.3	1514.5	1509.6	1509.6	1531.8
15°	1585.9	1581.0	1582.3	1578.6	1576.1	1573.6	1572.4	1571.2	1568.7	1568.7	1582.3
17.5°	1643.8	1640.1	1638.9	1635.2	1631.5	1627.8	1625.4	1624.1	1620.4	1620.4	1632.7
20°	1704.2	1700.5	1698.0	1691.8	1685.7	1682.0	1677.1	1674.6	1669.7	1670.9	1684.5
22.5°	1773.1	1767.0	1762.0	1757.1	1746.0	1738.6	1732.5	1727.6	1725.1	1725.1	1743.6
25°	1865.5	1861.8	1854.4	1838.4	1824.8	1813.7	1803.9	1799.0	1794.0	1791.6	1819.9
27.5°	1978.7	1975.0	1965.2	1949.2	1930.7	1912.3	1901.2	1892.5	1886.4	1882.7	1923.3
30°	2129.0	2122.8	2114.2	2088.3	2072.3	2044.0	2031.7	2019.4	2005.8	2009.5	2057.5
32.5°	2423.3	2414.6	2387.5	2359.2	2310.0	2271.8	2232.4	2202.8	2174.5	2170.8	2222.5
35°	2690.4	2686.8	2681.8	2662.1	2643.7	2620.3	2601.8	2571.0	2545.2	2539.0	2684.3
37.5°	2834.5	2843.1	2835.7	2833.3	2833.3	2844.4	2878.8	2913.3	2937.9	2952.7	3034.0
40°	3054.9	3054.9	3046.3	3041.4	3031.5	3046.3	3061.1	3086.9	3098.0	3099.2	3181.7
42.5°	3304.9	3306.1	3297.5	3282.7	3277.8	3291.3	3311.0	3335.7	3350.4	3354.1	3450.2
45°	3583.2	3579.5	3572.1	3567.2	3570.8	3583.2	3606.6	3654.6	3676.7	3694.0	3798.6
47.5°	3884.8	3909.5	3888.5	3892.2	3892.2	3930.4	3983.3	4022.7	4058.5	4091.7	4202.5
50°	4280.1	4283.8	4287.5	4298.6	4305.9	4356.4	4422.9	4469.7	4521.4	4564.5	4745.5
52.5°	4808.3	4800.9	4819.4	4831.7	4873.6	4900.7	5011.5	5070.6	5142.0	5197.4	5462.2
55°	5440.0	5436.3	5463.4	5473.2	5528.7	5595.1	5718.3	5847.6	5969.5	6037.2	6399.2
57.5°	5893.1	5903.0	5949.8	6015.0	6123.4	6265.0	6448.5	6734.1	6965.6	7039.5	7438.4
60°	5992.9	6024.9	6095.1	6225.6	6411.5	6675.0	7035.8	7472.9	7896.5	8038.1	8412.4
62.5°	5713.4	5750.3	5853.7	6010.1	6252.7	6643.0	7163.9	7780.8	8410.0	8725.2	8913.6
63°	5624.7	5670.3	5747.8	5928.8	6175.1	6560.5	7114.6	7779.5	8432.1	8775.7	8923.4
65°	5208.5	5217.1	5332.9	5513.9	5790.9	6191.1	6750.1	7518.5	8242.5	8639.0	8536.8
67.5°	4482.0	4517.7	4615.0	4797.2	5066.9	5483.1	6090.1	6800.6	7437.2	7753.7	7296.8
70°	3621.3	3618.9	3739.5	3886.1	4123.7	4489.4	5021.3	5662.9	6167.7	6398.0	5633.3
72.5°	2587.0	2523.0	2611.6	2774.2	2968.7	3260.6	3681.7	4180.4	4632.3	4831.7	4118.8
75°	1178.4	1161.1	1239.9	1401.2	1598.3	1858.1	2204.1	2635.0	3068.5	3302.4	2624.0
77.5°	396.5	401.4	432.2	490.1	596.0	726.5	942.0	1217.8	1568.7	1800.2	1231.3
80°	266.0	273.4	283.2	291.8	304.1	323.8	370.6	442.0	550.4	666.1	389.1
82.5°	217.9	226.6	248.7	258.6	266.0	272.1	275.8	280.7	280.7	283.2	246.3
85°	156.4	171.2	200.7	219.2	226.6	231.5	237.6	245.0	234.0	224.1	190.9
87.5°	54.2	73.9	108.4	119.4	128.1	129.3	137.9	152.7	145.3	118.2	57.9
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1	1315.1
2.5°	1321.2	1320.0	1321.2	1322.4	1322.4	1322.4	1323.7	1324.9	1324.9
5°	1345.8	1347.1	1345.8	1347.1	1347.1	1348.3	1348.3	1350.8	1350.8
7.5°	1387.7	1390.2	1388.9	1391.4	1391.4	1393.9	1392.6	1396.3	1396.3
10°	1444.3	1446.8	1449.3	1450.5	1449.3	1451.7	1454.2	1455.4	1454.2
12.5°	1508.4	1509.6	1508.4	1510.8	1510.8	1513.3	1513.3	1517.0	1517.0
15°	1567.5	1566.2	1565.0	1568.7	1571.2	1572.4	1574.9	1578.6	1574.9
17.5°	1620.4	1621.7	1619.2	1622.9	1627.8	1631.5	1634.0	1638.9	1637.7
20°	1673.4	1670.9	1673.4	1679.5	1684.5	1689.4	1694.3	1701.7	1700.5
22.5°	1725.1	1727.6	1733.7	1738.6	1747.3	1754.6	1760.8	1770.6	1774.3
25°	1797.7	1797.7	1807.6	1813.7	1826.1	1835.9	1849.5	1860.5	1866.7
27.5°	1890.1	1890.1	1901.2	1914.7	1933.2	1950.4	1965.2	1980.0	1977.5
30°	2015.7	2021.8	2031.7	2048.9	2073.6	2094.5	2114.2	2129.0	2130.2
32.5°	2180.7	2188.1	2217.6	2261.9	2313.7	2353.1	2382.6	2418.3	2423.3
35°	2555.0	2573.5	2611.6	2647.4	2668.3	2691.7	2706.5	2707.7	2710.1
37.5°	2949.0	2917.0	2887.5	2860.4	2848.1	2845.6	2845.6	2850.5	2853.0
40°	3093.1	3077.1	3063.5	3046.3	3051.2	3050.0	3058.6	3066.0	3070.9
42.5°	3339.4	3327.0	3314.7	3292.6	3304.9	3301.2	3313.5	3324.6	3330.7
45°	3682.9	3644.7	3617.6	3581.9	3594.2	3586.9	3586.9	3600.4	3602.9
47.5°	4062.1	4017.8	3962.4	3918.1	3903.3	3889.8	3902.1	3902.1	3888.5
50°	4516.5	4463.6	4398.3	4326.9	4302.3	4288.7	4293.6	4299.8	4261.6
52.5°	5133.4	5074.3	4981.9	4873.6	4850.2	4839.1	4836.7	4828.0	4818.2
55°	5969.5	5858.7	5745.4	5602.5	5559.4	5547.1	5548.4	5538.5	5561.9
57.5°	6955.8	6793.2	6532.2	6358.6	6255.1	6215.7	6180.0	6165.3	6166.5
60°	7932.2	7601.0	7210.6	6907.7	6691.0	6553.1	6444.8	6384.4	6367.2
62.5°	8561.4	8040.6	7454.5	6963.2	6607.3	6379.5	6208.3	6100.0	6065.5
63°	8610.7	8059.0	7432.3	6905.3	6531.0	6292.1	6112.3	6000.3	5963.3
65°	8503.5	7873.1	7142.9	6514.9	6104.9	5840.2	5645.6	5539.7	5511.4
67.5°	7671.2	7146.6	6402.9	5754.0	5340.3	5071.8	4849.0	4748.0	4716.0
70°	6240.4	5880.8	5271.3	4717.2	4331.8	4073.2	3847.9	3764.2	3762.9
72.5°	4626.1	4159.4	3796.2	3389.8	3053.7	2848.1	2652.3	2558.7	2511.9
75°	3059.8	2559.9	2153.6	1811.3	1476.4	1291.7	1071.3	976.4	921.0
77.5°	1541.6	1142.7	818.8	567.6	440.8	362.0	331.2	315.2	314.0
80°	513.5	385.4	331.2	310.3	304.1	305.4	301.7	295.5	288.1
82.5°	284.4	299.2	301.7	293.1	293.1	288.1	283.2	259.8	247.5
85°	243.8	268.4	270.9	266.0	264.7	257.3	248.7	216.7	198.2
87.5°	152.7	176.1	172.4	153.9	169.9	158.8	150.2	97.3	71.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)