

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: P157370

Luminaire Tested: **VST-E07-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157370
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-E07-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (147) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22392 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 172.5
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

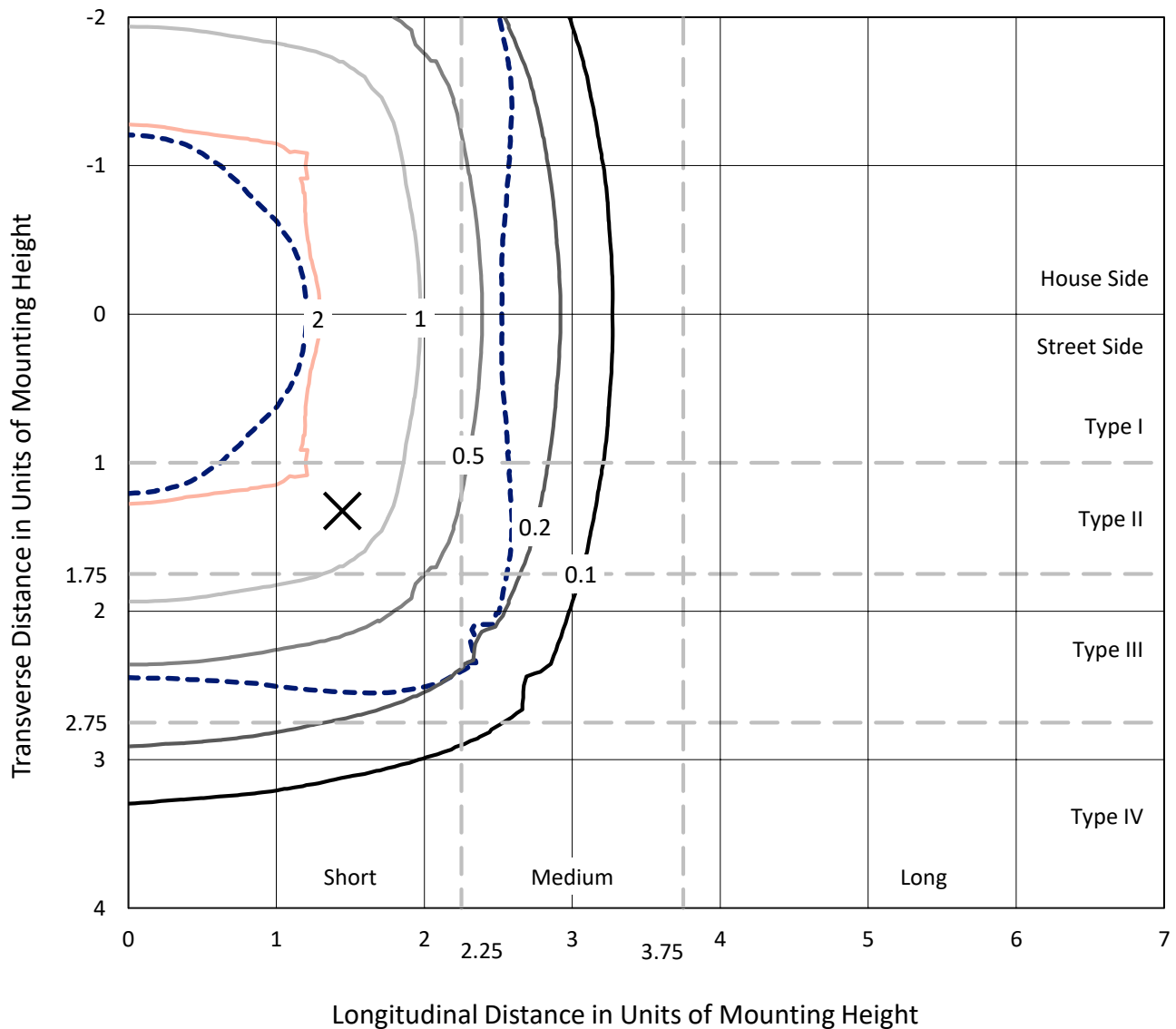


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

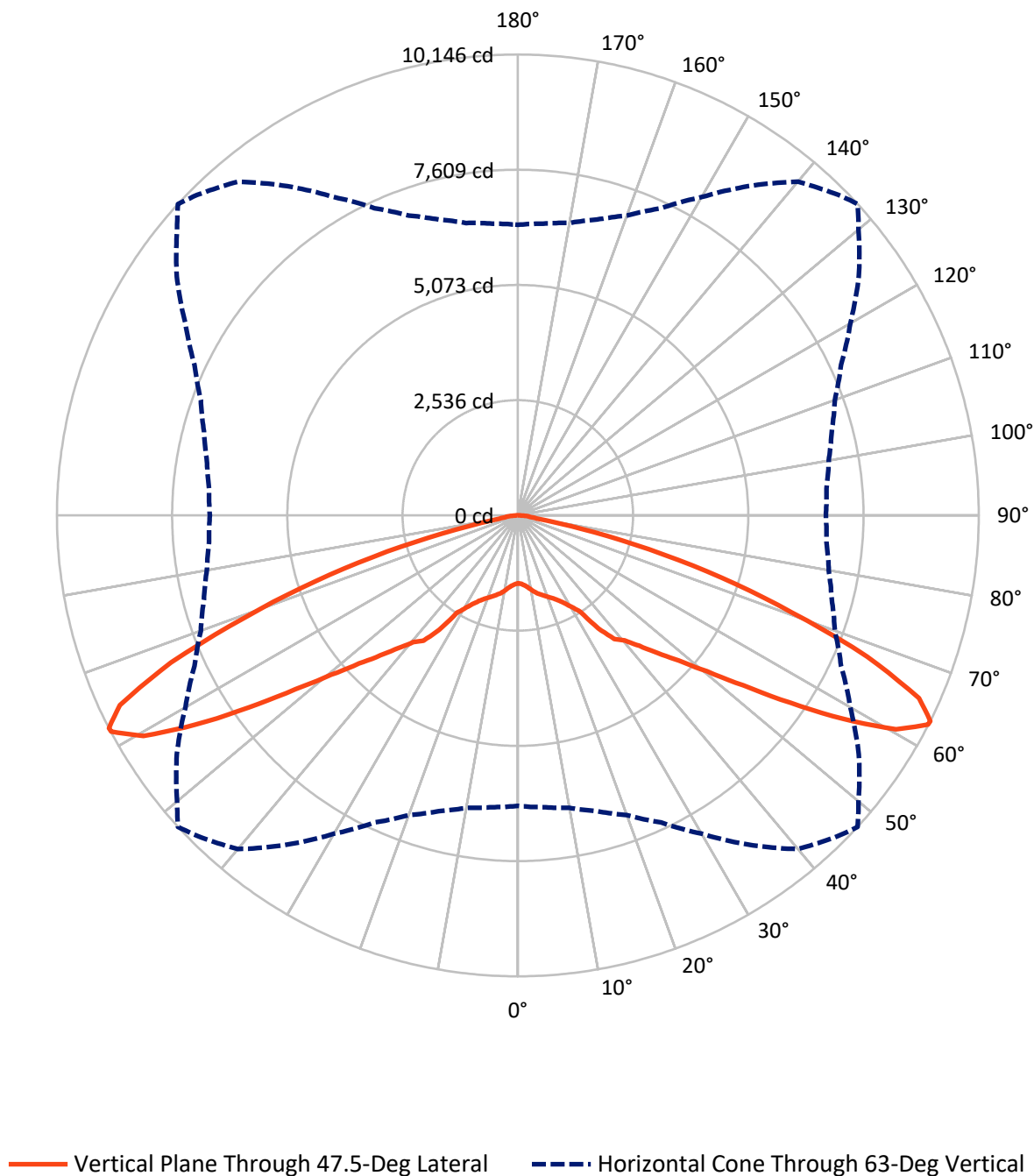


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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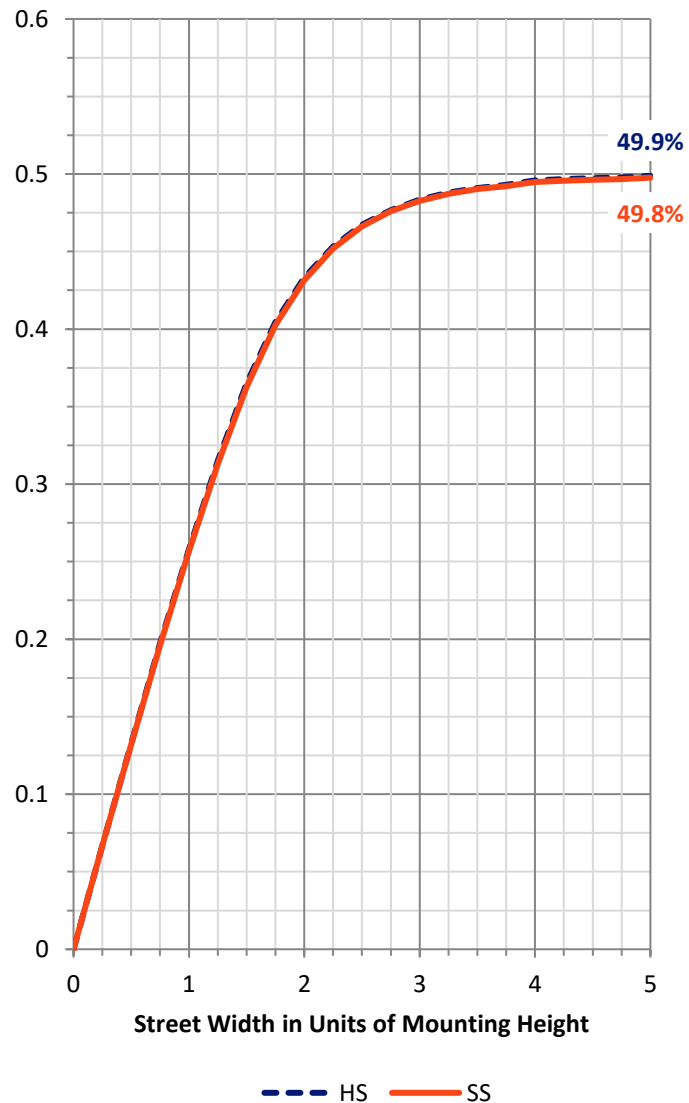
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11196.0	0.0	11196.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11196.0	0.0	11196.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22392.0	0.0	22392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	0.7
10°-20°	510.3	2.3
20°-30°	976.0	4.4
30°-40°	1867.1	8.3
40°-50°	3230.7	14.4
50°-60°	5802.1	25.9
60°-70°	7055.4	31.5
70°-80°	2548.1	11.4
80°-90°	252.4	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°	22392.0	100.0
0°-180°	22392.0	100.0

Coefficient of Utilization



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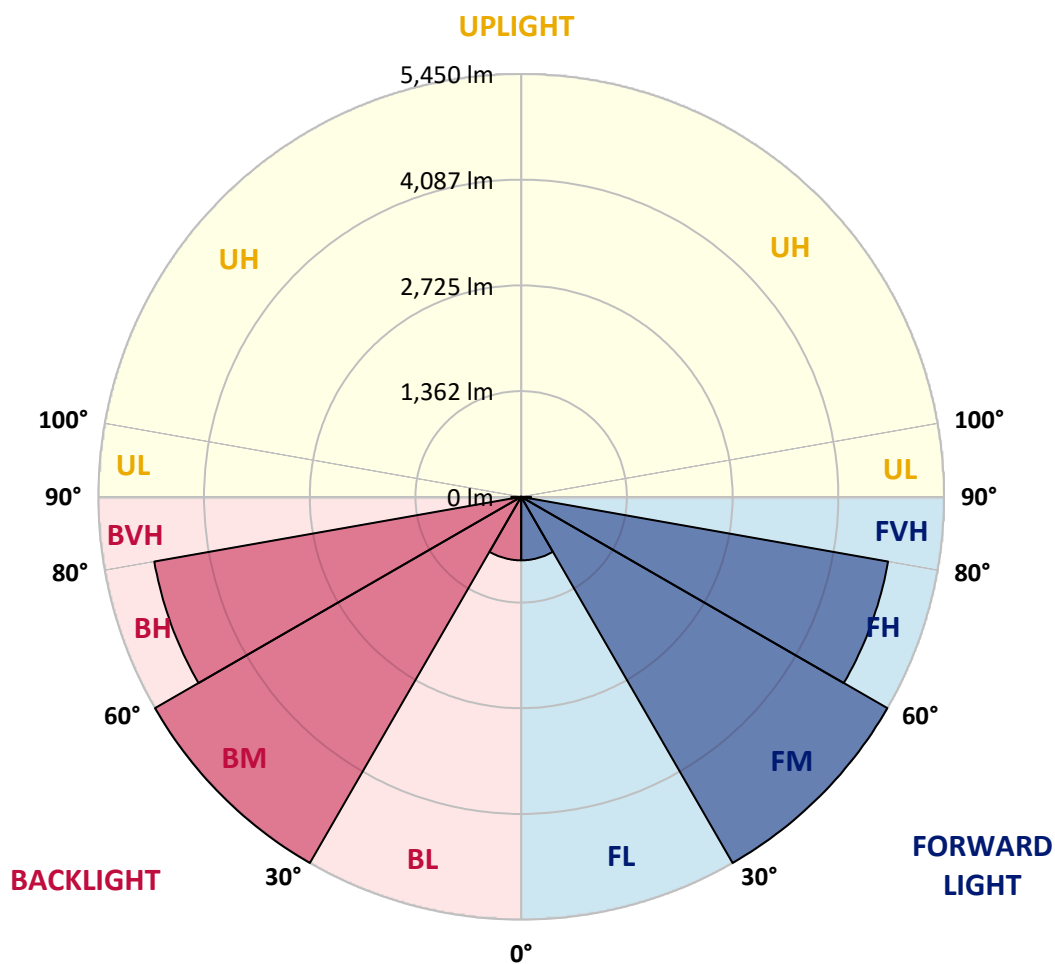
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.2	3.7			
FM	(30°-60°)	5449.9	24.3			
FH	(60°-80°)	4801.7	21.4			G2/5000
FVH	(80°-90°)	126.2	0.6			G2/225
BL	(0°-30°)	818.2	3.7	B2/1000		
BM	(30°-60°)	5449.9	24.3	B4/8500		
BH	(60°-80°)	4801.7	21.4	B4/5000		G2/5000
BVH	(80°-90°)	126.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2
2.5°	1505.0	1502.2	1503.6	1505.0	1503.6	1502.2	1502.2	1502.2	1505.0	1502.2	1509.2
5°	1534.4	1531.6	1533.0	1533.0	1533.0	1530.2	1530.2	1530.2	1528.8	1530.2	1545.6
7.5°	1590.4	1586.2	1584.8	1587.6	1584.8	1583.4	1582.0	1582.0	1579.2	1579.2	1598.8
10°	1657.6	1652.0	1654.8	1656.2	1652.0	1649.2	1649.2	1649.2	1645.0	1643.6	1668.8
12.5°	1731.8	1729.0	1729.0	1726.2	1724.8	1722.0	1720.6	1722.0	1716.4	1716.4	1741.6
15°	1803.2	1797.6	1799.0	1794.8	1792.0	1789.2	1787.8	1786.4	1783.6	1783.6	1799.0
17.5°	1869.0	1864.8	1863.4	1859.2	1855.0	1850.8	1848.0	1846.6	1842.4	1842.4	1856.4
20°	1937.6	1933.4	1930.6	1923.6	1916.6	1912.4	1906.8	1904.0	1898.4	1899.8	1915.2
22.5°	2016.0	2009.0	2003.4	1997.8	1985.2	1976.8	1969.8	1964.2	1961.4	1961.4	1982.4
25°	2121.0	2116.8	2108.4	2090.2	2074.8	2062.2	2051.0	2045.4	2039.8	2037.0	2069.2
27.5°	2249.8	2245.6	2234.4	2216.2	2195.2	2174.2	2161.6	2151.8	2144.8	2140.6	2186.8
30°	2420.6	2413.6	2403.8	2374.4	2356.2	2324.0	2310.0	2296.0	2280.6	2284.8	2339.4
32.5°	2755.2	2745.4	2714.6	2682.4	2626.4	2583.0	2538.2	2504.6	2472.4	2468.2	2527.0
35°	3059.0	3054.8	3049.2	3026.8	3005.8	2979.2	2958.2	2923.2	2893.8	2886.8	3052.0
37.5°	3222.8	3232.6	3224.2	3221.4	3221.4	3234.0	3273.2	3312.4	3340.4	3357.2	3449.6
40°	3473.4	3473.4	3463.6	3458.0	3446.8	3463.6	3480.4	3509.8	3522.4	3523.8	3617.6
42.5°	3757.6	3759.0	3749.2	3732.4	3726.8	3742.2	3764.6	3792.6	3809.4	3813.6	3922.8
45°	4074.0	4069.8	4061.4	4055.8	4060.0	4074.0	4100.6	4155.2	4180.4	4200.0	4319.0
47.5°	4417.0	4445.0	4421.2	4425.4	4425.4	4468.8	4529.0	4573.8	4614.4	4652.2	4778.2
50°	4866.4	4870.6	4874.8	4887.4	4895.8	4953.2	5028.8	5082.0	5140.8	5189.8	5395.6
52.5°	5467.0	5458.6	5479.6	5493.6	5541.2	5572.0	5698.0	5765.2	5846.4	5909.4	6210.4
55°	6185.2	6181.0	6211.8	6223.0	6286.0	6361.6	6501.6	6648.6	6787.2	6864.2	7275.8
57.5°	6700.4	6711.6	6764.8	6839.0	6962.2	7123.2	7331.8	7656.6	7919.8	8003.8	8457.4
60°	6813.8	6850.2	6930.0	7078.4	7289.8	7589.4	7999.6	8496.6	8978.2	9139.2	9564.8
62.5°	6496.0	6538.0	6655.6	6833.4	7109.2	7553.0	8145.2	8846.6	9562.0	9920.4	10134.6
63°	6395.2	6447.0	6535.2	6741.0	7021.0	7459.2	8089.2	8845.2	9587.2	9977.8	10145.8
65°	5922.0	5931.8	6063.4	6269.2	6584.2	7039.2	7674.8	8548.4	9371.6	9822.4	9706.2
67.5°	5096.0	5136.6	5247.2	5454.4	5761.0	6234.2	6924.4	7732.2	8456.0	8815.8	8296.4
70°	4117.4	4114.6	4251.8	4418.4	4688.6	5104.4	5709.2	6438.6	7012.6	7274.4	6405.0
72.5°	2941.4	2868.6	2969.4	3154.2	3375.4	3707.2	4186.0	4753.0	5266.8	5493.6	4683.0
75°	1339.8	1320.2	1409.8	1593.2	1817.2	2112.6	2506.0	2996.0	3488.8	3754.8	2983.4
77.5°	450.8	456.4	491.4	557.2	677.6	826.0	1071.0	1384.6	1783.6	2046.8	1400.0
80°	302.4	310.8	322.0	331.8	345.8	368.2	421.4	502.6	625.8	757.4	442.4
82.5°	247.8	257.6	282.8	294.0	302.4	309.4	313.6	319.2	319.2	322.0	280.0
85°	177.8	194.6	228.2	249.2	257.6	263.2	270.2	278.6	266.0	254.8	217.0
87.5°	61.6	84.0	123.2	135.8	145.6	147.0	156.8	173.6	165.2	134.4	65.8
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°	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2	1495.2
2.5°	1502.2	1500.8	1502.2	1503.6	1503.6	1503.6	1505.0	1506.4	1506.4
5°	1530.2	1531.6	1530.2	1531.6	1531.6	1533.0	1533.0	1535.8	1535.8
7.5°	1577.8	1580.6	1579.2	1582.0	1582.0	1584.8	1583.4	1587.6	1587.6
10°	1642.2	1645.0	1647.8	1649.2	1647.8	1650.6	1653.4	1654.8	1653.4
12.5°	1715.0	1716.4	1715.0	1717.8	1717.8	1720.6	1720.6	1724.8	1724.8
15°	1782.2	1780.8	1779.4	1783.6	1786.4	1787.8	1790.6	1794.8	1790.6
17.5°	1842.4	1843.8	1841.0	1845.2	1850.8	1855.0	1857.8	1863.4	1862.0
20°	1902.6	1899.8	1902.6	1909.6	1915.2	1920.8	1926.4	1934.8	1933.4
22.5°	1961.4	1964.2	1971.2	1976.8	1986.6	1995.0	2002.0	2013.2	2017.4
25°	2044.0	2044.0	2055.2	2062.2	2076.2	2087.4	2102.8	2115.4	2122.4
27.5°	2149.0	2149.0	2161.6	2177.0	2198.0	2217.6	2234.4	2251.2	2248.4
30°	2291.8	2298.8	2310.0	2329.6	2357.6	2381.4	2403.8	2420.6	2422.0
32.5°	2479.4	2487.8	2521.4	2571.8	2630.6	2675.4	2709.0	2749.6	2755.2
35°	2905.0	2926.0	2969.4	3010.0	3033.8	3060.4	3077.2	3078.6	3081.4
37.5°	3353.0	3316.6	3283.0	3252.2	3238.2	3235.4	3235.4	3241.0	3243.8
40°	3516.8	3498.6	3483.2	3463.6	3469.2	3467.8	3477.6	3486.0	3491.6
42.5°	3796.8	3782.8	3768.8	3743.6	3757.6	3753.4	3767.4	3780.0	3787.0
45°	4187.4	4144.0	4113.2	4072.6	4086.6	4078.2	4078.2	4093.6	4096.4
47.5°	4618.6	4568.2	4505.2	4454.8	4438.0	4422.6	4436.6	4436.6	4421.2
50°	5135.2	5075.0	5000.8	4919.6	4891.6	4876.2	4881.8	4888.8	4845.4
52.5°	5836.6	5769.4	5664.4	5541.2	5514.6	5502.0	5499.2	5489.4	5478.2
55°	6787.2	6661.2	6532.4	6370.0	6321.0	6307.0	6308.4	6297.2	6323.8
57.5°	7908.6	7723.8	7427.0	7229.6	7112.0	7067.2	7026.6	7009.8	7011.2
60°	9018.8	8642.2	8198.4	7854.0	7607.6	7450.8	7327.6	7259.0	7239.4
62.5°	9734.2	9142.0	8475.6	7917.0	7512.4	7253.4	7058.8	6935.6	6896.4
63°	9790.2	9163.0	8450.4	7851.2	7425.6	7154.0	6949.6	6822.2	6780.2
65°	9668.4	8951.6	8121.4	7407.4	6941.2	6640.2	6419.0	6298.6	6266.4
67.5°	8722.0	8125.6	7280.0	6542.2	6071.8	5766.6	5513.2	5398.4	5362.0
70°	7095.2	6686.4	5993.4	5363.4	4925.2	4631.2	4375.0	4279.8	4278.4
72.5°	5259.8	4729.2	4316.2	3854.2	3472.0	3238.2	3015.6	2909.2	2856.0
75°	3479.0	2910.6	2448.6	2059.4	1678.6	1468.6	1218.0	1110.2	1047.2
77.5°	1752.8	1299.2	931.0	645.4	501.2	411.6	376.6	358.4	357.0
80°	583.8	438.2	376.6	352.8	345.8	347.2	343.0	336.0	327.6
82.5°	323.4	340.2	343.0	333.2	333.2	327.6	322.0	295.4	281.4
85°	277.2	305.2	308.0	302.4	301.0	292.6	282.8	246.4	225.4
87.5°	173.6	200.2	196.0	175.0	193.2	180.6	170.8	110.6	81.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)