

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: P157403

Luminaire Tested: **VST-F10-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157403
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-F10-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22287.6 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 258.7
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



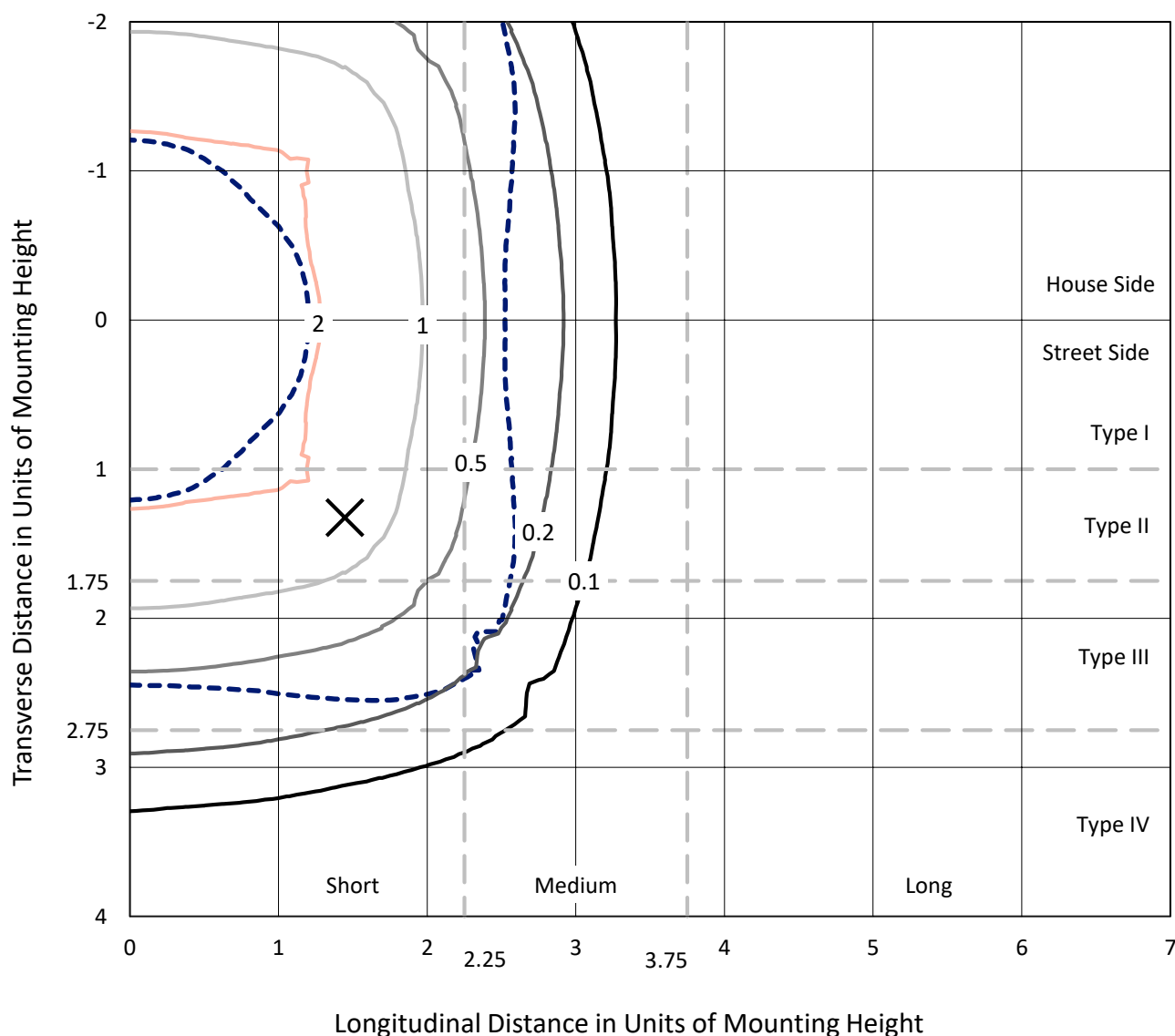
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

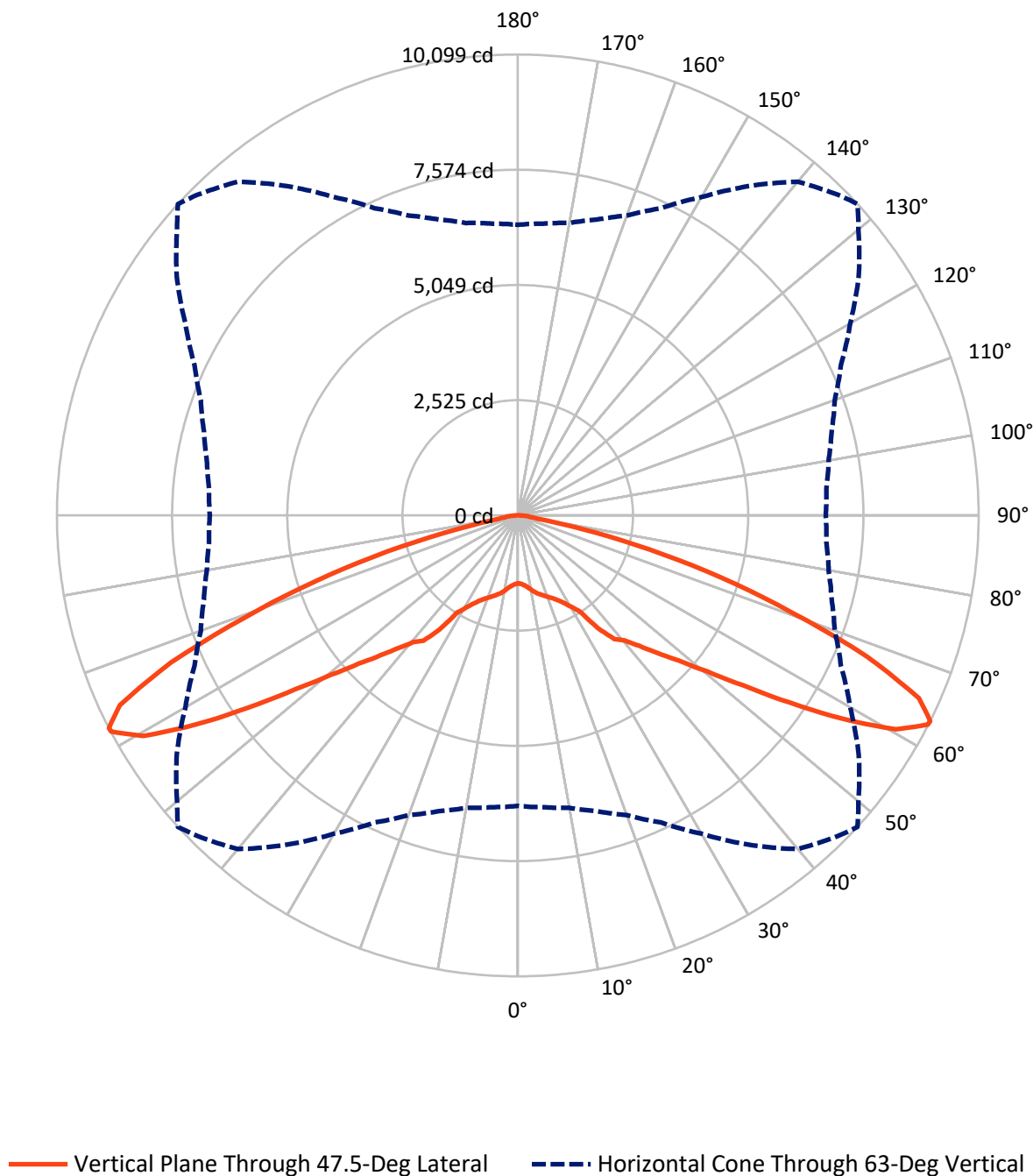


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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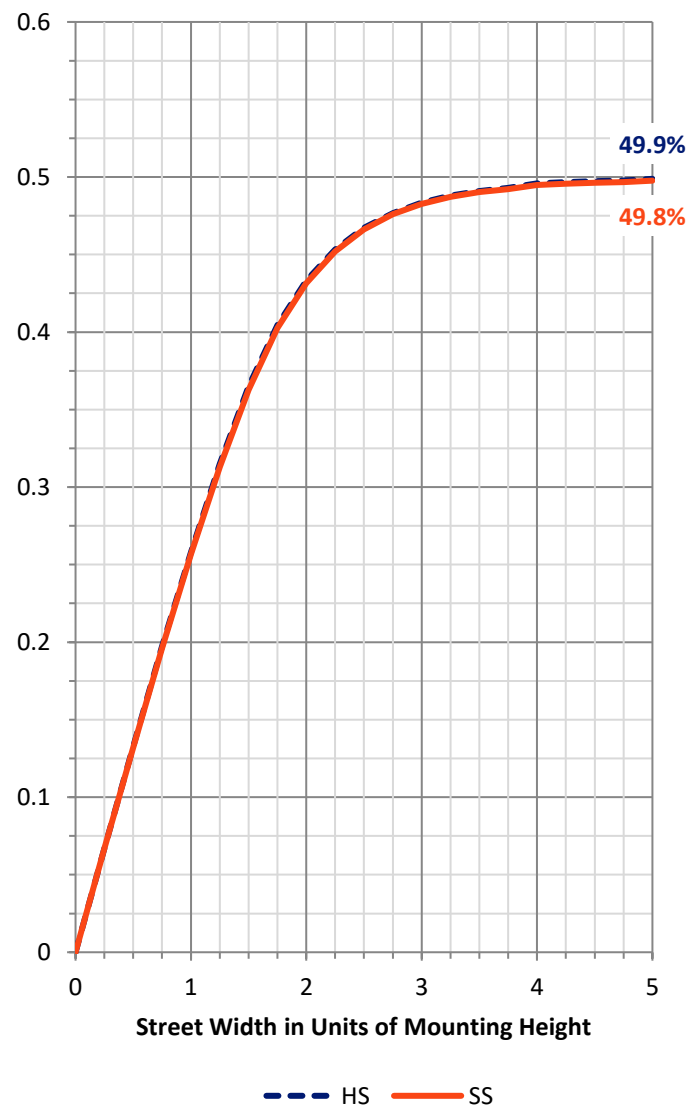
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11143.8	0.0	11143.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11143.8	0.0	11143.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	22287.6	0.0	22287.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	0.7
10°-20°	507.9	2.3
20°-30°	971.5	4.4
30°-40°	1858.4	8.3
40°-50°	3215.6	14.4
50°-60°	5775.0	25.9
60°-70°	7022.5	31.5
70°-80°	2536.2	11.4
80°-90°	251.2	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°	22287.6	100.0
0°-180°	22287.6	100.0

Coefficient of Utilization



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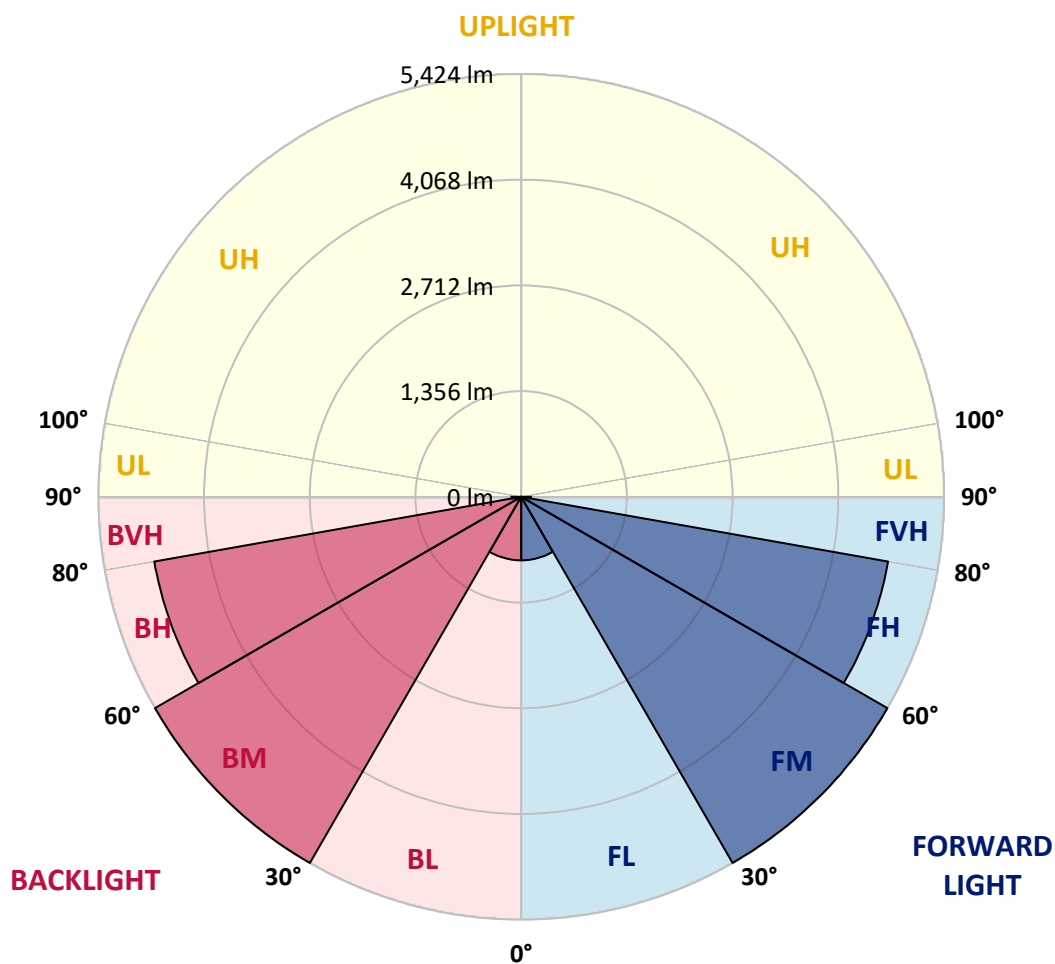
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	814.4	3.7			
FM	(30°-60°)	5424.5	24.3			
FH	(60°-80°)	4779.3	21.4			G2/5000
FVH	(80°-90°)	125.6	0.6			G2/225
BL	(0°-30°)	814.4	3.7	B2/1000		
BM	(30°-60°)	5424.5	24.3	B4/8500		
BH	(60°-80°)	4779.3	21.4	B4/5000		G2/5000
BVH	(80°-90°)	125.6	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°	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2
2.5°	1498.0	1495.2	1496.6	1498.0	1496.6	1495.2	1495.2	1495.2	1498.0	1495.2	1502.2
5°	1527.2	1524.5	1525.9	1525.9	1525.9	1523.1	1523.1	1523.1	1521.7	1523.1	1538.4
7.5°	1583.0	1578.8	1577.4	1580.2	1577.4	1576.0	1574.6	1574.6	1571.8	1571.8	1591.3
10°	1649.9	1644.3	1647.1	1648.5	1644.3	1641.5	1641.5	1641.5	1637.3	1635.9	1661.0
12.5°	1723.7	1720.9	1720.9	1718.1	1716.8	1714.0	1712.6	1714.0	1708.4	1708.4	1733.5
15°	1794.8	1789.2	1790.6	1786.4	1783.6	1780.9	1779.5	1778.1	1775.3	1775.3	1790.6
17.5°	1860.3	1856.1	1854.7	1850.5	1846.3	1842.2	1839.4	1838.0	1833.8	1833.8	1847.7
20°	1928.6	1924.4	1921.6	1914.6	1907.7	1903.5	1897.9	1895.1	1889.5	1890.9	1906.3
22.5°	2006.6	1999.6	1994.1	1988.5	1975.9	1967.6	1960.6	1955.0	1952.3	1952.3	1973.2
25°	2111.1	2106.9	2098.6	2080.5	2065.1	2052.6	2041.4	2035.9	2030.3	2027.5	2059.6
27.5°	2239.3	2235.1	2224.0	2205.9	2185.0	2164.1	2151.5	2141.8	2134.8	2130.6	2176.6
30°	2409.3	2402.3	2392.6	2363.3	2345.2	2313.2	2299.2	2285.3	2270.0	2274.1	2328.5
32.5°	2742.4	2732.6	2701.9	2669.9	2614.2	2571.0	2526.4	2492.9	2460.9	2456.7	2515.2
35°	3044.7	3040.6	3035.0	3012.7	2991.8	2965.3	2944.4	2909.6	2880.3	2873.3	3037.8
37.5°	3207.8	3217.5	3209.2	3206.4	3206.4	3218.9	3257.9	3297.0	3324.8	3341.5	3433.5
40°	3457.2	3457.2	3447.4	3441.9	3430.7	3447.4	3464.2	3493.4	3506.0	3507.4	3600.7
42.5°	3740.1	3741.5	3731.7	3715.0	3709.4	3724.7	3747.0	3774.9	3791.6	3795.8	3904.5
45°	4055.0	4050.8	4042.5	4036.9	4041.1	4055.0	4081.5	4135.8	4160.9	4180.4	4298.9
47.5°	4396.4	4424.3	4400.6	4404.8	4404.8	4448.0	4507.9	4552.5	4592.9	4630.5	4755.9
50°	4843.7	4847.9	4852.1	4864.6	4873.0	4930.1	5005.3	5058.3	5116.8	5165.6	5370.4
52.5°	5441.5	5433.1	5454.0	5468.0	5515.4	5546.0	5671.4	5738.3	5819.1	5881.8	6181.4
55°	6156.4	6152.2	6182.8	6194.0	6256.7	6331.9	6471.3	6617.6	6755.5	6832.2	7241.9
57.5°	6669.2	6680.3	6733.3	6807.1	6929.7	7090.0	7297.6	7620.9	7882.9	7966.5	8418.0
60°	6782.0	6818.3	6897.7	7045.4	7255.8	7554.0	7962.3	8457.0	8936.3	9096.6	9520.2
62.5°	6465.7	6507.5	6624.6	6801.5	7076.0	7517.8	8107.2	8805.3	9517.4	9874.1	10087.3
63°	6365.4	6416.9	6504.7	6709.6	6988.3	7424.4	8051.5	8804.0	9542.5	9931.3	10098.5
65°	5894.4	5904.1	6035.1	6240.0	6553.5	7006.4	7639.0	8508.5	9327.9	9776.6	9660.9
67.5°	5072.2	5112.6	5222.7	5429.0	5734.1	6205.1	6892.1	7696.1	8416.6	8774.7	8257.7
70°	4098.2	4095.4	4232.0	4397.8	4666.7	5080.6	5682.6	6408.6	6979.9	7240.5	6375.1
72.5°	2927.7	2855.2	2955.6	3139.5	3359.7	3689.9	4166.5	4730.8	5242.2	5468.0	4661.2
75°	1333.6	1314.0	1403.2	1585.8	1808.7	2102.7	2494.3	2982.0	3472.5	3737.3	2969.5
77.5°	448.7	454.3	489.1	554.6	674.4	822.1	1066.0	1378.1	1775.3	2037.3	1393.5
80°	301.0	309.4	320.5	330.3	344.2	366.5	419.4	500.3	622.9	753.9	440.3
82.5°	246.6	256.4	281.5	292.6	301.0	308.0	312.1	317.7	317.7	320.5	278.7
85°	177.0	193.7	227.1	248.0	256.4	262.0	268.9	277.3	264.8	253.6	216.0
87.5°	61.3	83.6	122.6	135.2	144.9	146.3	156.1	172.8	164.4	133.8	65.5
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°	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2	1488.2
2.5°	1495.2	1493.8	1495.2	1496.6	1496.6	1496.6	1498.0	1499.4	1499.4
5°	1523.1	1524.5	1523.1	1524.5	1524.5	1525.9	1525.9	1528.6	1528.6
7.5°	1570.4	1573.2	1571.8	1574.6	1574.6	1577.4	1576.0	1580.2	1580.2
10°	1634.5	1637.3	1640.1	1641.5	1640.1	1642.9	1645.7	1647.1	1645.7
12.5°	1707.0	1708.4	1707.0	1709.8	1709.8	1712.6	1712.6	1716.8	1716.8
15°	1773.9	1772.5	1771.1	1775.3	1778.1	1779.5	1782.2	1786.4	1782.2
17.5°	1833.8	1835.2	1832.4	1836.6	1842.2	1846.3	1849.1	1854.7	1853.3
20°	1893.7	1890.9	1893.7	1900.7	1906.3	1911.8	1917.4	1925.8	1924.4
22.5°	1952.3	1955.0	1962.0	1967.6	1977.3	1985.7	1992.7	2003.8	2008.0
25°	2034.5	2034.5	2045.6	2052.6	2066.5	2077.7	2093.0	2105.5	2112.5
27.5°	2139.0	2139.0	2151.5	2166.8	2187.7	2207.3	2224.0	2240.7	2237.9
30°	2281.1	2288.1	2299.2	2318.7	2346.6	2370.3	2392.6	2409.3	2410.7
32.5°	2467.8	2476.2	2509.6	2559.8	2618.3	2662.9	2696.4	2736.8	2742.4
35°	2891.5	2912.4	2955.6	2996.0	3019.7	3046.1	3062.8	3064.2	3067.0
37.5°	3337.4	3301.1	3267.7	3237.0	3223.1	3220.3	3220.3	3225.9	3228.7
40°	3500.4	3482.3	3467.0	3447.4	3453.0	3451.6	3461.4	3469.7	3475.3
42.5°	3779.1	3765.2	3751.2	3726.1	3740.1	3735.9	3749.8	3762.4	3769.3
45°	4167.9	4124.7	4094.0	4053.6	4067.5	4059.2	4059.2	4074.5	4077.3
47.5°	4597.1	4546.9	4484.2	4434.0	4417.3	4402.0	4415.9	4415.9	4400.6
50°	5111.3	5051.3	4977.5	4896.7	4868.8	4853.5	4859.0	4866.0	4822.8
52.5°	5809.4	5742.5	5638.0	5515.4	5488.9	5476.3	5473.6	5463.8	5452.7
55°	6755.5	6630.1	6501.9	6340.3	6291.5	6277.6	6279.0	6267.8	6294.3
57.5°	7871.7	7687.8	7392.4	7195.9	7078.8	7034.2	6993.8	6977.1	6978.5
60°	8976.7	8601.9	8160.2	7817.4	7572.1	7416.1	7293.4	7225.1	7205.6
62.5°	9688.8	9099.4	8436.1	7880.1	7477.4	7219.6	7025.9	6903.3	6864.2
63°	9744.5	9120.3	8411.0	7814.6	7391.0	7120.6	6917.2	6790.4	6748.6
65°	9623.3	8909.9	8083.5	7372.9	6908.8	6609.2	6389.1	6269.2	6237.2
67.5°	8681.3	8087.7	7246.0	6511.7	6043.5	5739.7	5487.5	5373.2	5337.0
70°	7062.1	6655.2	5965.4	5338.4	4902.2	4609.6	4354.6	4259.8	4258.4
72.5°	5235.3	4707.1	4296.1	3836.2	3455.8	3223.1	3001.5	2895.6	2842.7
75°	3462.8	2897.0	2437.2	2049.8	1670.8	1461.8	1212.3	1105.0	1042.3
77.5°	1744.6	1293.1	926.7	642.4	498.9	409.7	374.8	356.7	355.3
80°	581.1	436.2	374.8	351.2	344.2	345.6	341.4	334.4	326.1
82.5°	321.9	338.6	341.4	331.6	331.6	326.1	320.5	294.0	280.1
85°	275.9	303.8	306.6	301.0	299.6	291.2	281.5	245.3	224.3
87.5°	172.8	199.3	195.1	174.2	192.3	179.8	170.0	110.1	80.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)