

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: P157377

Luminaire Tested: **VST-F07-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157377
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-F07-LED-E-U-5MQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (49) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18967.7 lumens
Efficiency: N/A
Efficacy: 105.1 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): 180.5
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

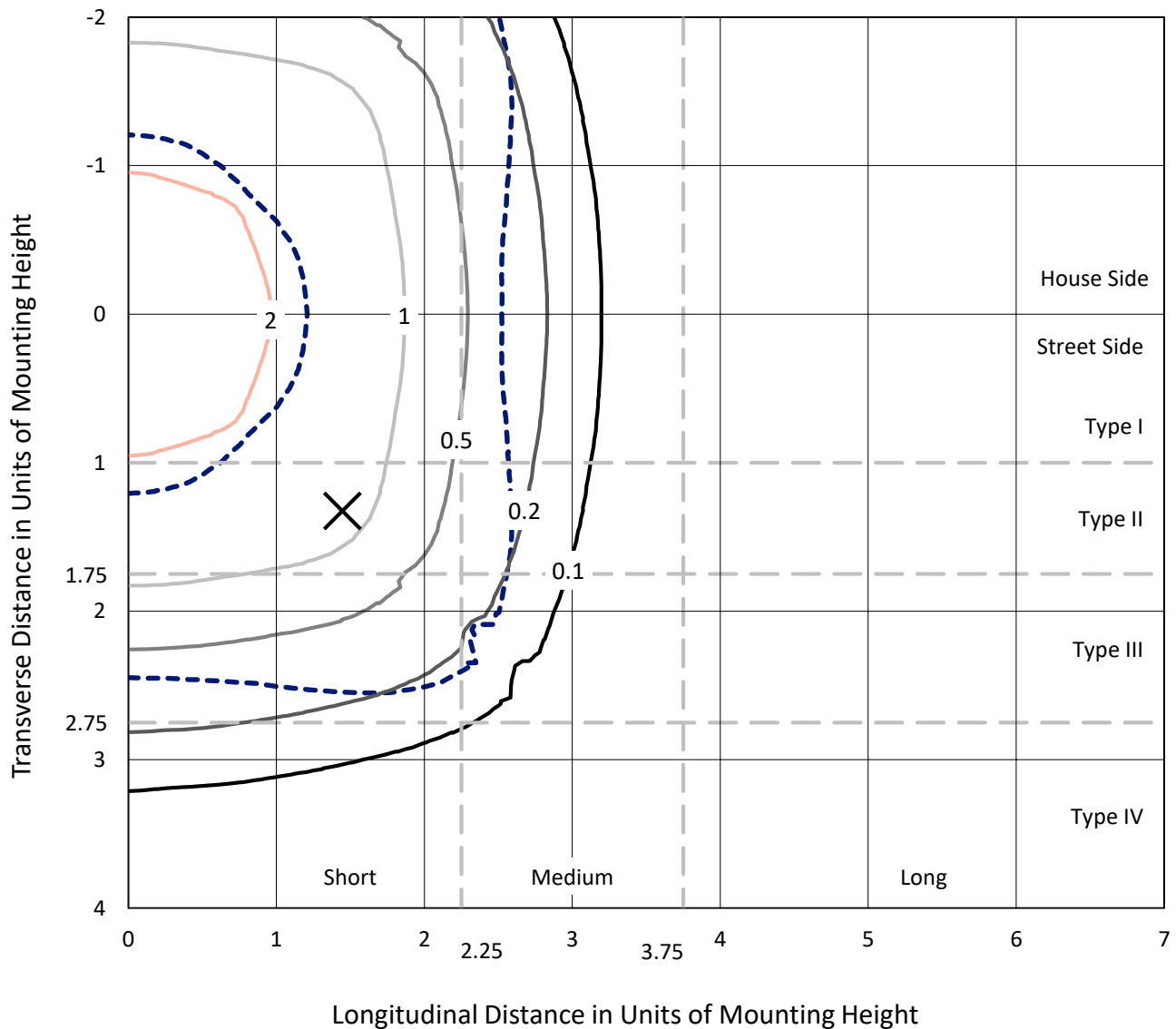


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

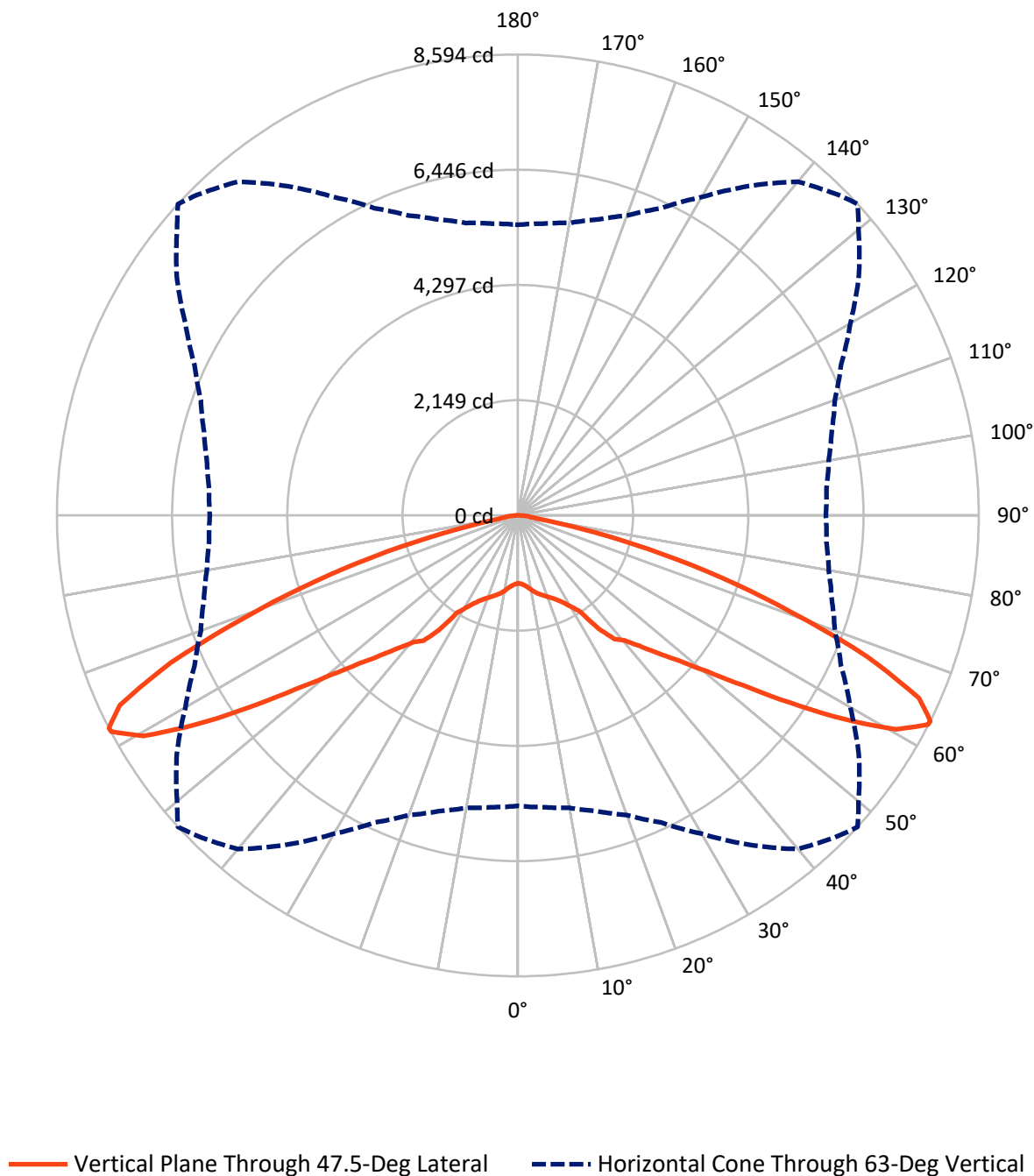


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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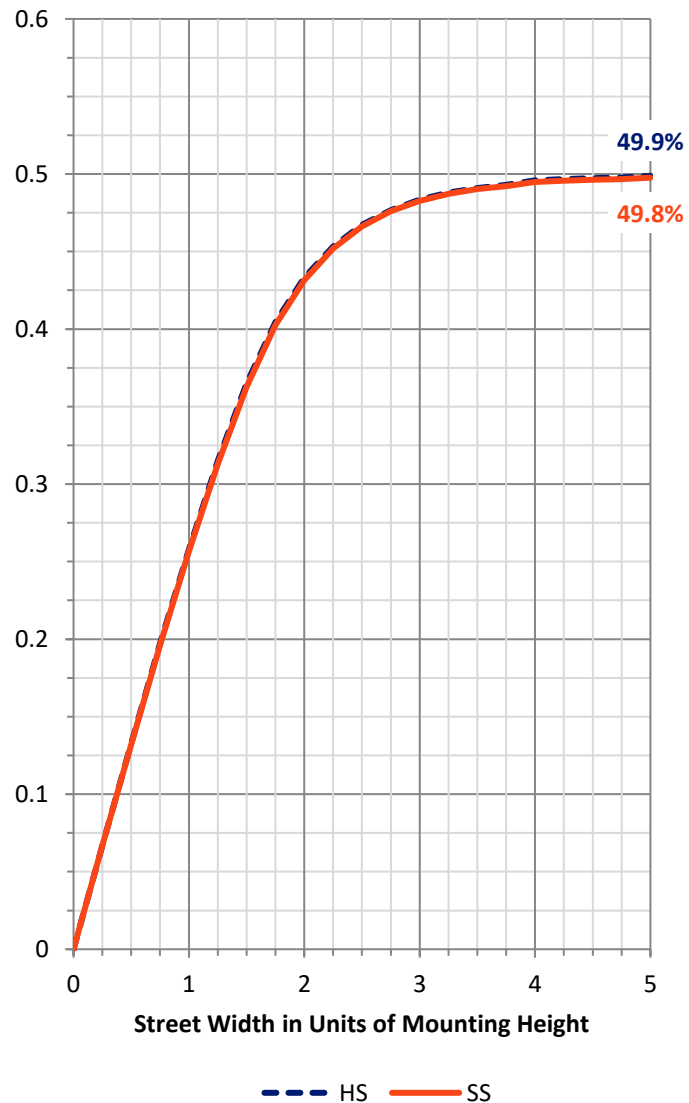
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9483.9	0.0	9483.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9483.9	0.0	9483.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	18967.7	0.0	18967.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	0.7
10°-20°	432.2	2.3
20°-30°	826.8	4.4
30°-40°	1581.5	8.3
40°-50°	2736.6	14.4
50°-60°	4914.8	25.9
60°-70°	5976.5	31.5
70°-80°	2158.4	11.4
80°-90°	213.8	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°	18967.7	100.0
0°-180°	18967.7	100.0

Coefficient of Utilization



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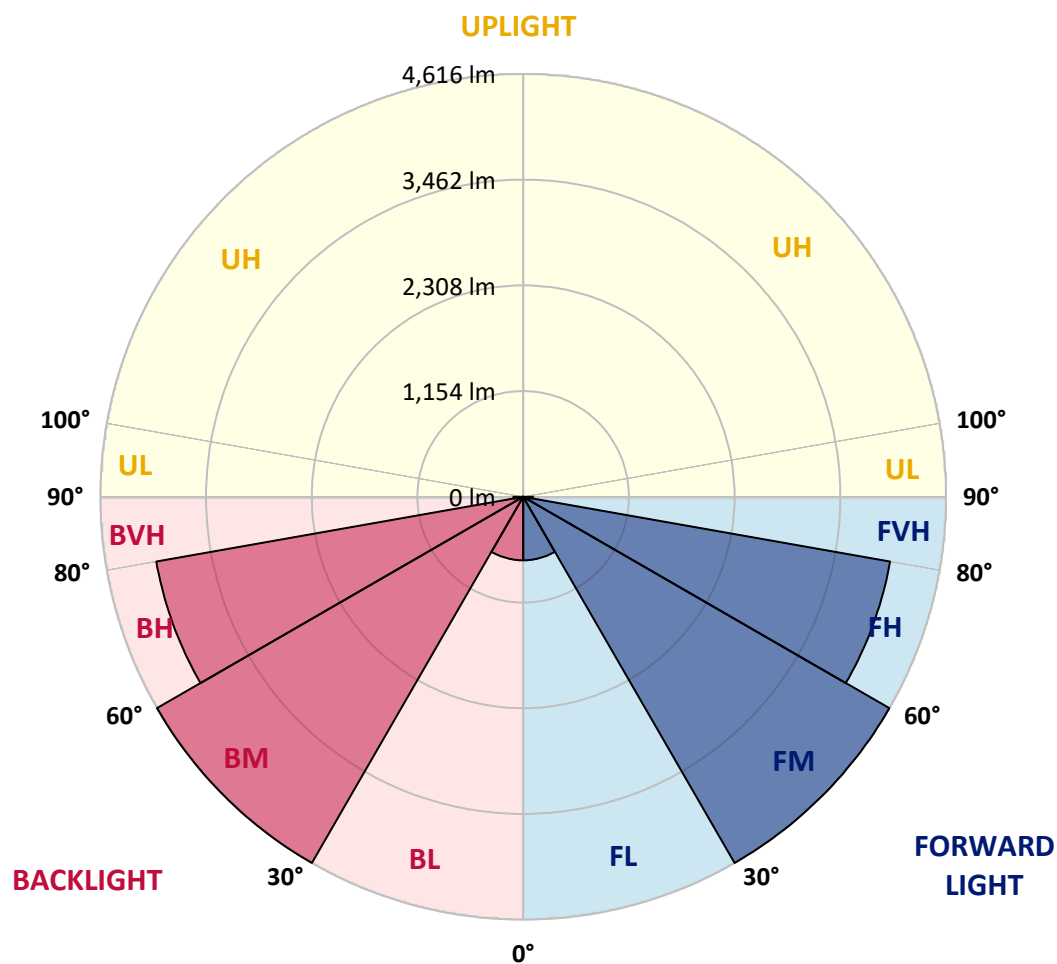
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.1	3.7			
FM	(30°-60°)	4616.5	24.3			
FH	(60°-80°)	4067.4	21.4			G2/5000
FVH	(80°-90°)	106.9	0.6			G2/225
BL	(0°-30°)	693.1	3.7	B2/1000		
BM	(30°-60°)	4616.5	24.3	B3/5000		
BH	(60°-80°)	4067.4	21.4	B4/5000		G2/5000
BVH	(80°-90°)	106.9	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°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1274.8	1272.5	1273.7	1274.8	1273.7	1272.5	1272.5	1272.5	1274.8	1272.5	1278.4
5°	1299.8	1297.4	1298.6	1298.6	1298.6	1296.2	1296.2	1296.2	1295.0	1296.2	1309.2
7.5°	1347.2	1343.6	1342.4	1344.8	1342.4	1341.3	1340.1	1340.1	1337.7	1337.7	1354.3
10°	1404.1	1399.4	1401.7	1402.9	1399.4	1397.0	1397.0	1397.0	1393.4	1392.3	1413.6
12.5°	1467.0	1464.6	1464.6	1462.2	1461.0	1458.7	1457.5	1458.7	1453.9	1453.9	1475.3
15°	1527.4	1522.7	1523.9	1520.3	1518.0	1515.6	1514.4	1513.2	1510.8	1510.8	1523.9
17.5°	1583.2	1579.6	1578.4	1574.9	1571.3	1567.8	1565.4	1564.2	1560.7	1560.7	1572.5
20°	1641.3	1637.7	1635.4	1629.4	1623.5	1619.9	1615.2	1612.8	1608.1	1609.3	1622.3
22.5°	1707.7	1701.8	1697.0	1692.3	1681.6	1674.5	1668.6	1663.8	1661.5	1661.5	1679.2
25°	1796.6	1793.1	1786.0	1770.6	1757.5	1746.8	1737.4	1732.6	1727.9	1725.5	1752.8
27.5°	1905.8	1902.2	1892.7	1877.3	1859.5	1841.7	1831.0	1822.7	1816.8	1813.3	1852.4
30°	2050.4	2044.5	2036.2	2011.3	1995.9	1968.6	1956.7	1944.9	1931.8	1935.4	1981.6
32.5°	2333.9	2325.6	2299.5	2272.2	2224.8	2188.0	2150.0	2121.6	2094.3	2090.8	2140.6
35°	2591.2	2587.6	2582.9	2563.9	2546.1	2523.6	2505.8	2476.2	2451.3	2445.3	2585.3
37.5°	2730.0	2738.3	2731.1	2728.8	2728.8	2739.4	2772.6	2805.9	2829.6	2843.8	2922.1
40°	2942.2	2942.2	2933.9	2929.2	2919.7	2933.9	2948.2	2973.1	2983.7	2984.9	3064.4
42.5°	3183.0	3184.2	3175.9	3161.6	3156.9	3169.9	3188.9	3212.6	3226.8	3230.4	3322.9
45°	3451.0	3447.4	3440.3	3435.6	3439.1	3451.0	3473.5	3519.8	3541.1	3557.7	3658.5
47.5°	3741.5	3765.3	3745.1	3748.6	3748.6	3785.4	3836.4	3874.4	3908.7	3940.8	4047.5
50°	4122.2	4125.8	4129.3	4140.0	4147.1	4195.7	4259.8	4304.8	4354.6	4396.2	4570.5
52.5°	4631.0	4623.8	4641.6	4653.5	4693.8	4719.9	4826.6	4883.6	4952.3	5005.7	5260.7
55°	5239.3	5235.8	5261.9	5271.4	5324.7	5388.8	5507.3	5631.9	5749.3	5814.5	6163.2
57.5°	5675.7	5685.2	5730.3	5793.2	5897.5	6033.9	6210.6	6485.7	6708.7	6779.8	7164.1
60°	5771.8	5802.6	5870.2	5995.9	6175.0	6428.8	6776.3	7197.3	7605.2	7741.6	8102.1
62.5°	5502.6	5538.2	5637.8	5788.4	6022.0	6398.0	6899.6	7493.7	8099.7	8403.3	8584.8
63°	5417.2	5461.1	5535.8	5710.1	5947.3	6318.5	6852.2	7492.6	8121.1	8452.0	8594.3
65°	5016.4	5024.7	5136.2	5310.5	5577.3	5962.7	6501.1	7241.1	7938.5	8320.3	8221.9
67.5°	4316.7	4351.1	4444.8	4620.3	4880.0	5280.8	5865.5	6549.8	7162.9	7467.6	7027.7
70°	3487.7	3485.4	3601.6	3742.7	3971.6	4323.8	4836.1	5454.0	5940.2	6162.0	5425.5
72.5°	2491.6	2429.9	2515.3	2671.8	2859.2	3140.3	3545.9	4026.2	4461.4	4653.5	3966.9
75°	1134.9	1118.3	1194.2	1349.6	1539.3	1789.5	2122.8	2537.8	2955.3	3180.6	2527.2
77.5°	381.9	386.6	416.3	472.0	574.0	699.7	907.2	1172.9	1510.8	1733.8	1185.9
80°	256.2	263.3	272.8	281.1	292.9	311.9	357.0	425.7	530.1	641.6	374.7
82.5°	209.9	218.2	239.6	249.0	256.2	262.1	265.6	270.4	270.4	272.8	237.2
85°	150.6	164.8	193.3	211.1	218.2	223.0	228.9	236.0	225.3	215.8	183.8
87.5°	52.2	71.2	104.4	115.0	123.3	124.5	132.8	147.1	139.9	113.8	55.7
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°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1272.5	1271.3	1272.5	1273.7	1273.7	1273.7	1274.8	1276.0	1276.0
5°	1296.2	1297.4	1296.2	1297.4	1297.4	1298.6	1298.6	1300.9	1300.9
7.5°	1336.5	1338.9	1337.7	1340.1	1340.1	1342.4	1341.3	1344.8	1344.8
10°	1391.1	1393.4	1395.8	1397.0	1395.8	1398.2	1400.6	1401.7	1400.6
12.5°	1452.7	1453.9	1452.7	1455.1	1455.1	1457.5	1457.5	1461.0	1461.0
15°	1509.7	1508.5	1507.3	1510.8	1513.2	1514.4	1516.8	1520.3	1516.8
17.5°	1560.7	1561.8	1559.5	1563.0	1567.8	1571.3	1573.7	1578.4	1577.3
20°	1611.6	1609.3	1611.6	1617.6	1622.3	1627.1	1631.8	1638.9	1637.7
22.5°	1661.5	1663.8	1669.8	1674.5	1682.8	1689.9	1695.8	1705.3	1708.9
25°	1731.4	1731.4	1740.9	1746.8	1758.7	1768.2	1781.2	1791.9	1797.8
27.5°	1820.4	1820.4	1831.0	1844.1	1861.9	1878.5	1892.7	1906.9	1904.6
30°	1941.3	1947.3	1956.7	1973.3	1997.1	2017.2	2036.2	2050.4	2051.6
32.5°	2100.2	2107.4	2135.8	2178.5	2228.3	2266.3	2294.7	2329.1	2333.9
35°	2460.8	2478.5	2515.3	2549.7	2569.9	2592.4	2606.6	2607.8	2610.2
37.5°	2840.2	2809.4	2780.9	2754.9	2743.0	2740.6	2740.6	2745.4	2747.7
40°	2979.0	2963.6	2950.5	2933.9	2938.7	2937.5	2945.8	2952.9	2957.6
42.5°	3216.2	3204.3	3192.5	3171.1	3183.0	3179.4	3191.3	3201.9	3207.9
45°	3547.0	3510.3	3484.2	3449.8	3461.7	3454.5	3454.5	3467.6	3470.0
47.5°	3912.3	3869.6	3816.2	3773.6	3759.3	3746.3	3758.1	3758.1	3745.1
50°	4349.9	4298.9	4236.1	4167.3	4143.6	4130.5	4135.3	4141.2	4104.4
52.5°	4944.0	4887.1	4798.2	4693.8	4671.3	4660.6	4658.2	4649.9	4640.4
55°	5749.3	5642.5	5533.4	5395.9	5354.4	5342.5	5343.7	5334.2	5356.7
57.5°	6699.2	6542.6	6291.2	6124.0	6024.4	5986.5	5952.1	5937.8	5939.0
60°	7639.6	7320.6	6944.7	6652.9	6444.2	6311.4	6207.0	6148.9	6132.3
62.5°	8245.6	7744.0	7179.5	6706.3	6363.6	6144.2	5979.3	5875.0	5841.8
63°	8293.0	7761.8	7158.1	6650.6	6290.0	6060.0	5886.8	5778.9	5743.3
65°	8189.9	7582.7	6879.4	6274.6	5879.7	5624.8	5437.4	5335.4	5308.1
67.5°	7388.2	6883.0	6166.7	5541.7	5143.3	4884.7	4670.1	4572.9	4542.0
70°	6010.2	5663.9	5076.9	4543.2	4172.0	3923.0	3706.0	3625.3	3624.1
72.5°	4455.4	4006.0	3656.1	3264.8	2941.0	2743.0	2554.4	2464.3	2419.2
75°	2947.0	2465.5	2074.1	1744.5	1421.9	1244.0	1031.7	940.4	887.1
77.5°	1484.8	1100.5	788.6	546.7	424.6	348.7	319.0	303.6	302.4
80°	494.5	371.2	319.0	298.8	292.9	294.1	290.5	284.6	277.5
82.5°	273.9	288.2	290.5	282.2	282.2	277.5	272.8	250.2	238.4
85°	234.8	258.5	260.9	256.2	255.0	247.9	239.6	208.7	190.9
87.5°	147.1	169.6	166.0	148.2	163.7	153.0	144.7	93.7	68.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)