

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: P157365

Luminaire Tested: **VST-F06-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157365
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-F06-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15844.4 lumens
Efficiency: N/A
Efficacy: 101.2 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): 156.5
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

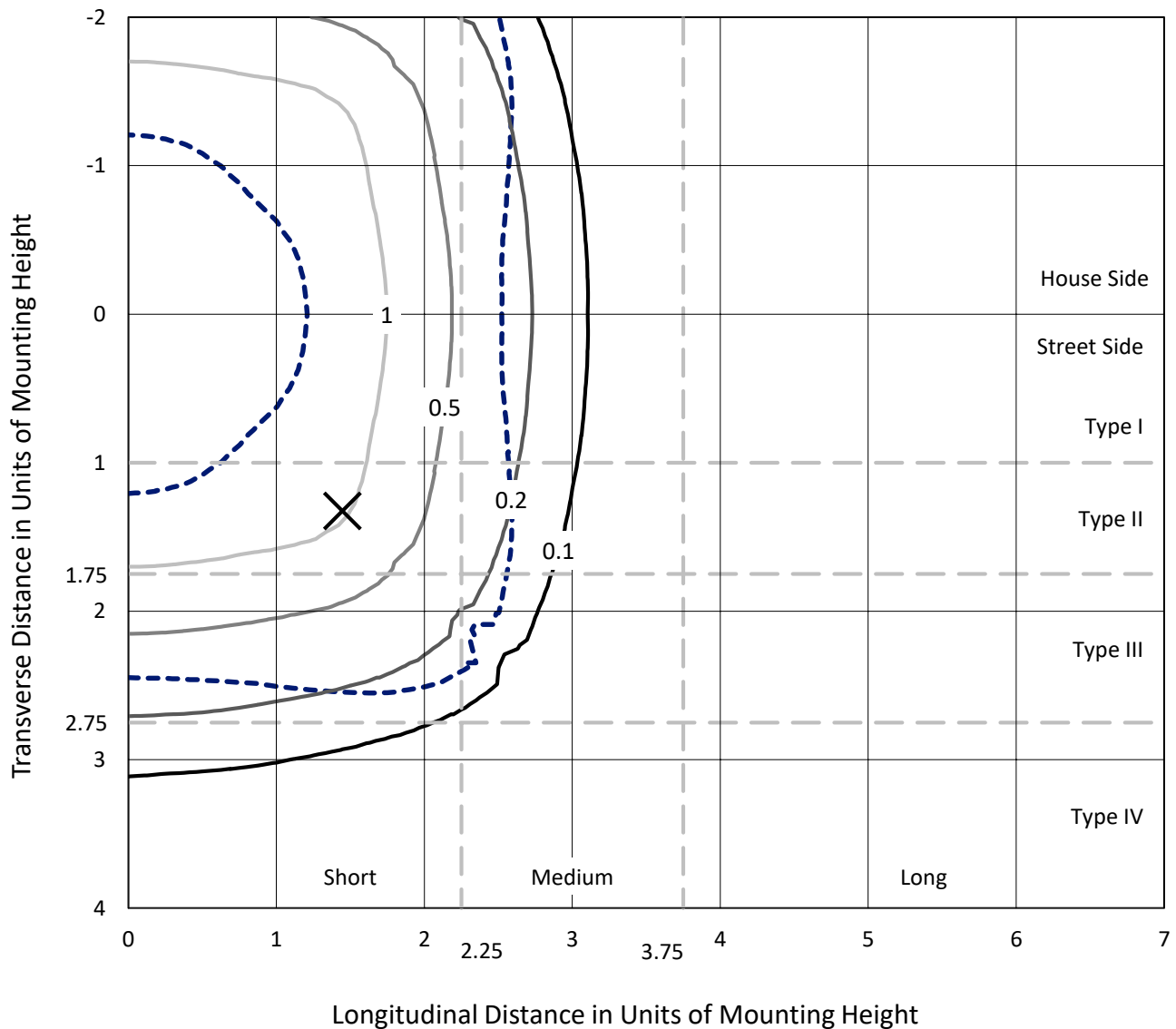


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

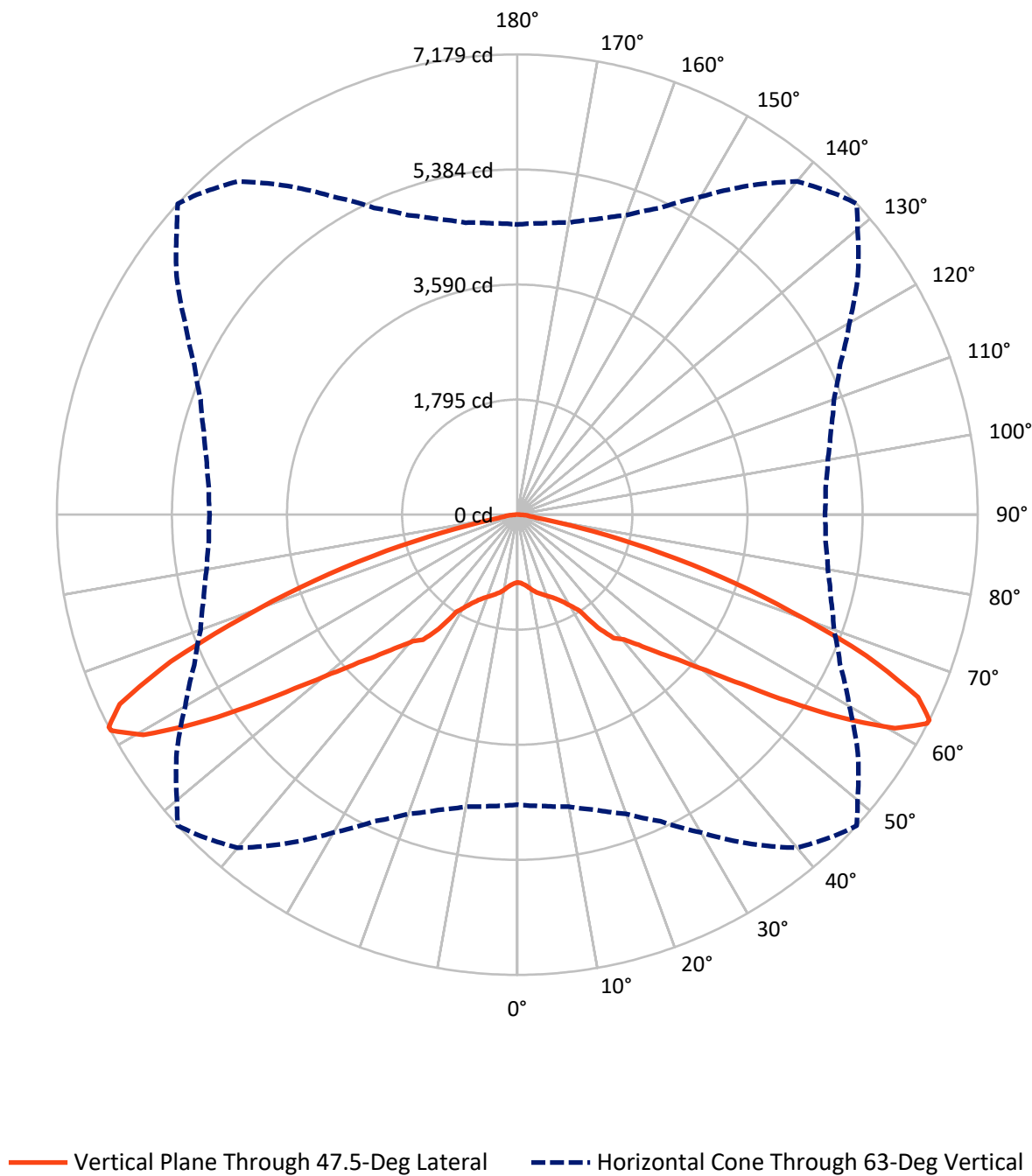


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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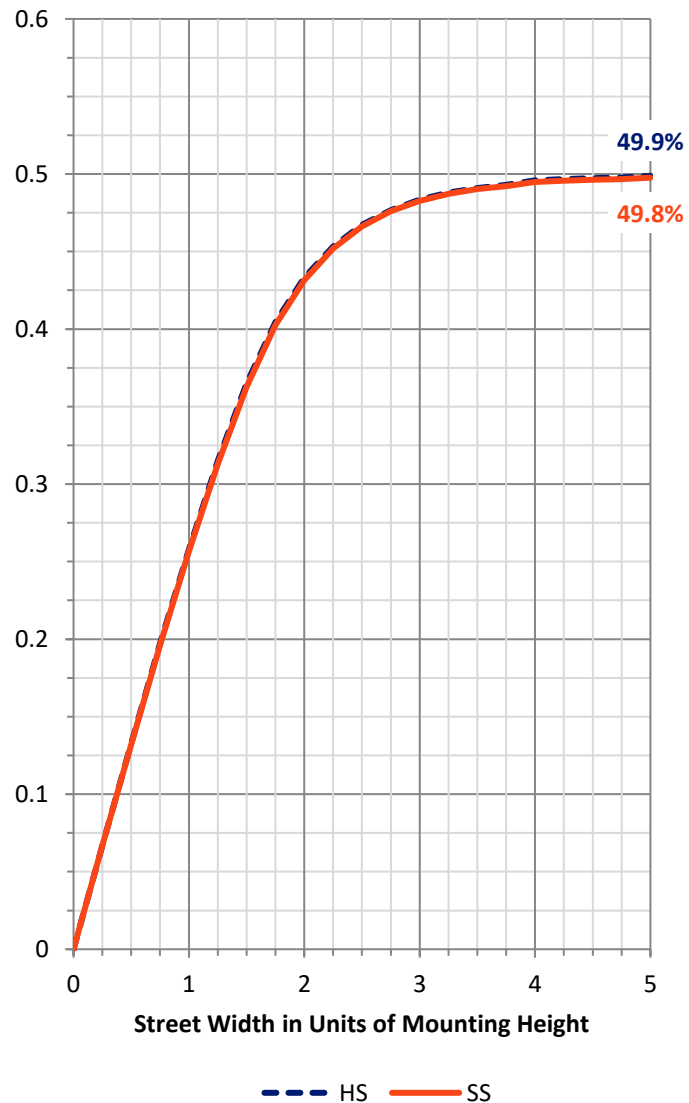
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7922.2	0.0	7922.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7922.2	0.0	7922.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15844.4	0.0	15844.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	0.7
10°-20°	361.1	2.3
20°-30°	690.6	4.4
30°-40°	1321.1	8.3
40°-50°	2286.0	14.4
50°-60°	4105.5	25.9
60°-70°	4992.3	31.5
70°-80°	1803.0	11.4
80°-90°	178.6	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°	15844.4	100.0
0°-180°	15844.4	100.0

Coefficient of Utilization



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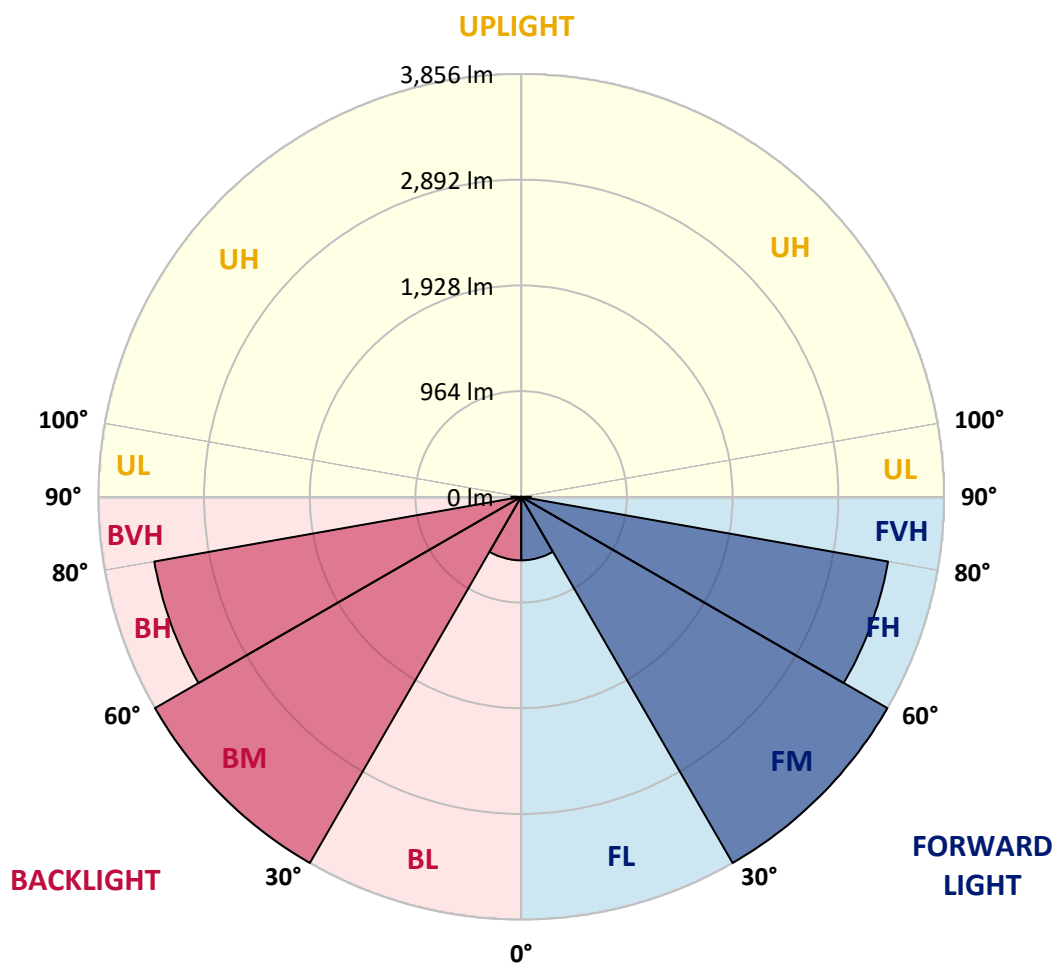
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.0	3.7			
FM	(30°-60°)	3856.3	24.3			
FH	(60°-80°)	3397.7	21.4			G2/5000
FVH	(80°-90°)	89.3	0.6			G1/100
BL	(0°-30°)	579.0	3.7	B2/1000		
BM	(30°-60°)	3856.3	24.3	B3/5000		
BH	(60°-80°)	3397.7	21.4	B4/5000		G2/5000
BVH	(80°-90°)	89.3	0.6			G1/100
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°	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0
2.5°	1064.9	1062.9	1063.9	1064.9	1063.9	1062.9	1062.9	1062.9	1064.9	1062.9	1067.9
5°	1085.7	1083.7	1084.7	1084.7	1084.7	1082.8	1082.8	1082.8	1081.8	1082.8	1093.7
7.5°	1125.4	1122.4	1121.4	1123.4	1121.4	1120.4	1119.4	1119.4	1117.4	1117.4	1131.3
10°	1172.9	1168.9	1170.9	1171.9	1168.9	1167.0	1167.0	1167.0	1164.0	1163.0	1180.8
12.5°	1225.4	1223.4	1223.4	1221.4	1220.5	1218.5	1217.5	1218.5	1214.5	1214.5	1232.3
15°	1275.9	1272.0	1273.0	1270.0	1268.0	1266.0	1265.0	1264.0	1262.1	1262.1	1273.0
17.5°	1322.5	1319.5	1318.5	1315.6	1312.6	1309.6	1307.6	1306.6	1303.7	1303.7	1313.6
20°	1371.0	1368.1	1366.1	1361.1	1356.2	1353.2	1349.2	1347.3	1343.3	1344.3	1355.2
22.5°	1426.5	1421.6	1417.6	1413.6	1404.7	1398.8	1393.8	1389.9	1387.9	1387.9	1402.7
25°	1500.8	1497.8	1491.9	1479.0	1468.1	1459.2	1451.3	1447.3	1443.3	1441.4	1464.2
27.5°	1591.9	1589.0	1581.0	1568.2	1553.3	1538.4	1529.5	1522.6	1517.6	1514.7	1547.4
30°	1712.8	1707.8	1700.9	1680.1	1667.2	1644.4	1634.5	1624.6	1613.7	1616.7	1655.3
32.5°	1949.6	1942.6	1920.8	1898.0	1858.4	1827.7	1796.0	1772.2	1749.5	1746.5	1788.1
35°	2164.5	2161.6	2157.6	2141.7	2126.9	2108.1	2093.2	2068.4	2047.6	2042.7	2159.6
37.5°	2280.4	2287.4	2281.4	2279.4	2279.4	2288.4	2316.1	2343.8	2363.6	2375.5	2440.9
40°	2457.8	2457.8	2450.8	2446.9	2438.9	2450.8	2462.7	2483.5	2492.4	2493.4	2559.8
42.5°	2658.9	2659.8	2652.9	2641.0	2637.1	2648.0	2663.8	2683.6	2695.5	2698.5	2775.7
45°	2882.7	2879.8	2873.8	2869.9	2872.8	2882.7	2901.6	2940.2	2958.0	2971.9	3056.1
47.5°	3125.4	3145.2	3128.4	3131.4	3131.4	3162.1	3204.7	3236.4	3265.1	3291.9	3381.0
50°	3443.4	3446.4	3449.4	3458.3	3464.2	3504.8	3558.3	3596.0	3637.6	3672.3	3817.9
52.5°	3868.4	3862.5	3877.3	3887.2	3920.9	3942.7	4031.9	4079.4	4136.9	4181.4	4394.4
55°	4376.6	4373.6	4395.4	4403.3	4447.9	4501.4	4600.5	4704.5	4802.6	4857.1	5148.3
57.5°	4741.2	4749.1	4786.7	4839.2	4926.4	5040.3	5187.9	5417.8	5604.0	5663.4	5984.4
60°	4821.4	4847.2	4903.6	5008.6	5158.2	5370.2	5660.5	6012.1	6352.9	6466.8	6768.0
62.5°	4596.5	4626.2	4709.5	4835.3	5030.4	5344.4	5763.5	6259.8	6766.0	7019.6	7171.2
63°	4525.2	4561.9	4624.3	4769.9	4968.0	5278.1	5723.9	6258.8	6783.8	7060.2	7179.1
65°	4190.4	4197.3	4290.4	4436.0	4658.9	4980.9	5430.6	6048.8	6631.3	6950.3	6868.0
67.5°	3605.9	3634.6	3712.9	3859.5	4076.4	4411.3	4899.7	5471.2	5983.4	6238.0	5870.5
70°	2913.4	2911.5	3008.5	3126.4	3317.6	3611.8	4039.8	4555.9	4962.1	5147.3	4532.1
72.5°	2081.3	2029.8	2101.1	2231.9	2388.4	2623.2	2962.0	3363.2	3726.7	3887.2	3313.7
75°	948.0	934.2	997.6	1127.3	1285.8	1494.9	1773.2	2119.9	2468.6	2656.9	2111.0
77.5°	319.0	322.9	347.7	394.3	479.5	584.5	757.8	979.7	1262.1	1448.3	990.6
80°	214.0	219.9	227.8	234.8	244.7	260.5	298.2	355.6	442.8	535.9	313.0
82.5°	175.3	182.3	200.1	208.0	214.0	218.9	221.9	225.9	225.9	227.8	198.1
85°	125.8	137.7	161.5	176.3	182.3	186.2	191.2	197.1	188.2	180.3	153.5
87.5°	43.6	59.4	87.2	96.1	103.0	104.0	111.0	122.8	116.9	95.1	46.6
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°	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0
2.5°	1062.9	1062.0	1062.9	1063.9	1063.9	1063.9	1064.9	1065.9	1065.9
5°	1082.8	1083.7	1082.8	1083.7	1083.7	1084.7	1084.7	1086.7	1086.7
7.5°	1116.4	1118.4	1117.4	1119.4	1119.4	1121.4	1120.4	1123.4	1123.4
10°	1162.0	1164.0	1166.0	1167.0	1166.0	1168.0	1169.9	1170.9	1169.9
12.5°	1213.5	1214.5	1213.5	1215.5	1215.5	1217.5	1217.5	1220.5	1220.5
15°	1261.1	1260.1	1259.1	1262.1	1264.0	1265.0	1267.0	1270.0	1267.0
17.5°	1303.7	1304.7	1302.7	1305.7	1309.6	1312.6	1314.6	1318.5	1317.5
20°	1346.3	1344.3	1346.3	1351.2	1355.2	1359.1	1363.1	1369.1	1368.1
22.5°	1387.9	1389.9	1394.8	1398.8	1405.7	1411.6	1416.6	1424.5	1427.5
25°	1446.3	1446.3	1454.2	1459.2	1469.1	1477.0	1487.9	1496.8	1501.8
27.5°	1520.6	1520.6	1529.5	1540.4	1555.3	1569.2	1581.0	1592.9	1591.0
30°	1621.7	1626.6	1634.5	1648.4	1668.2	1685.1	1700.9	1712.8	1713.8
32.5°	1754.4	1760.3	1784.1	1819.8	1861.4	1893.1	1916.9	1945.6	1949.6
35°	2055.6	2070.4	2101.1	2129.9	2146.7	2165.5	2177.4	2178.4	2180.4
37.5°	2372.6	2346.8	2323.0	2301.2	2291.3	2289.3	2289.3	2293.3	2295.3
40°	2488.5	2475.6	2464.7	2450.8	2454.8	2453.8	2460.7	2466.7	2470.6
42.5°	2686.6	2676.7	2666.8	2648.9	2658.9	2655.9	2665.8	2674.7	2679.7
45°	2963.0	2932.3	2910.5	2881.7	2891.6	2885.7	2885.7	2896.6	2898.6
47.5°	3268.1	3232.4	3187.8	3152.2	3140.3	3129.4	3139.3	3139.3	3128.4
50°	3633.6	3591.0	3538.5	3481.1	3461.3	3450.4	3454.3	3459.3	3428.6
52.5°	4129.9	4082.4	4008.1	3920.9	3902.1	3893.2	3891.2	3884.3	3876.3
55°	4802.6	4713.4	4622.3	4507.4	4472.7	4462.8	4463.8	4455.9	4474.7
57.5°	5596.1	5465.3	5255.3	5115.6	5032.4	5000.7	4972.0	4960.1	4961.1
60°	6381.6	6115.2	5801.1	5557.4	5383.1	5272.1	5185.0	5136.4	5122.5
62.5°	6887.8	6468.8	5997.3	5602.0	5315.7	5132.5	4994.8	4907.6	4879.8
63°	6927.5	6483.7	5979.4	5555.5	5254.3	5062.1	4917.5	4827.3	4797.6
65°	6841.3	6334.1	5746.6	5241.4	4911.5	4698.6	4542.0	4456.8	4434.1
67.5°	6171.6	5749.6	5151.3	4629.2	4296.4	4080.4	3901.1	3819.9	3794.1
70°	5020.5	4731.2	4240.9	3795.1	3485.0	3277.0	3095.7	3028.4	3027.4
72.5°	3721.8	3346.3	3054.1	2727.2	2456.8	2291.3	2133.8	2058.5	2020.9
75°	2461.7	2059.5	1732.6	1457.2	1187.8	1039.2	861.8	785.6	741.0
77.5°	1240.3	919.3	658.8	456.7	354.6	291.2	266.5	253.6	252.6
80°	413.1	310.1	266.5	249.6	244.7	245.7	242.7	237.8	231.8
82.5°	228.8	240.7	242.7	235.8	235.8	231.8	227.8	209.0	199.1
85°	196.1	216.0	217.9	214.0	213.0	207.0	200.1	174.4	159.5
87.5°	122.8	141.7	138.7	123.8	136.7	127.8	120.9	78.3	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)