

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: P157335

Luminaire Tested: **VST-F03-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157335
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-F03-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7922.2 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 78.3
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

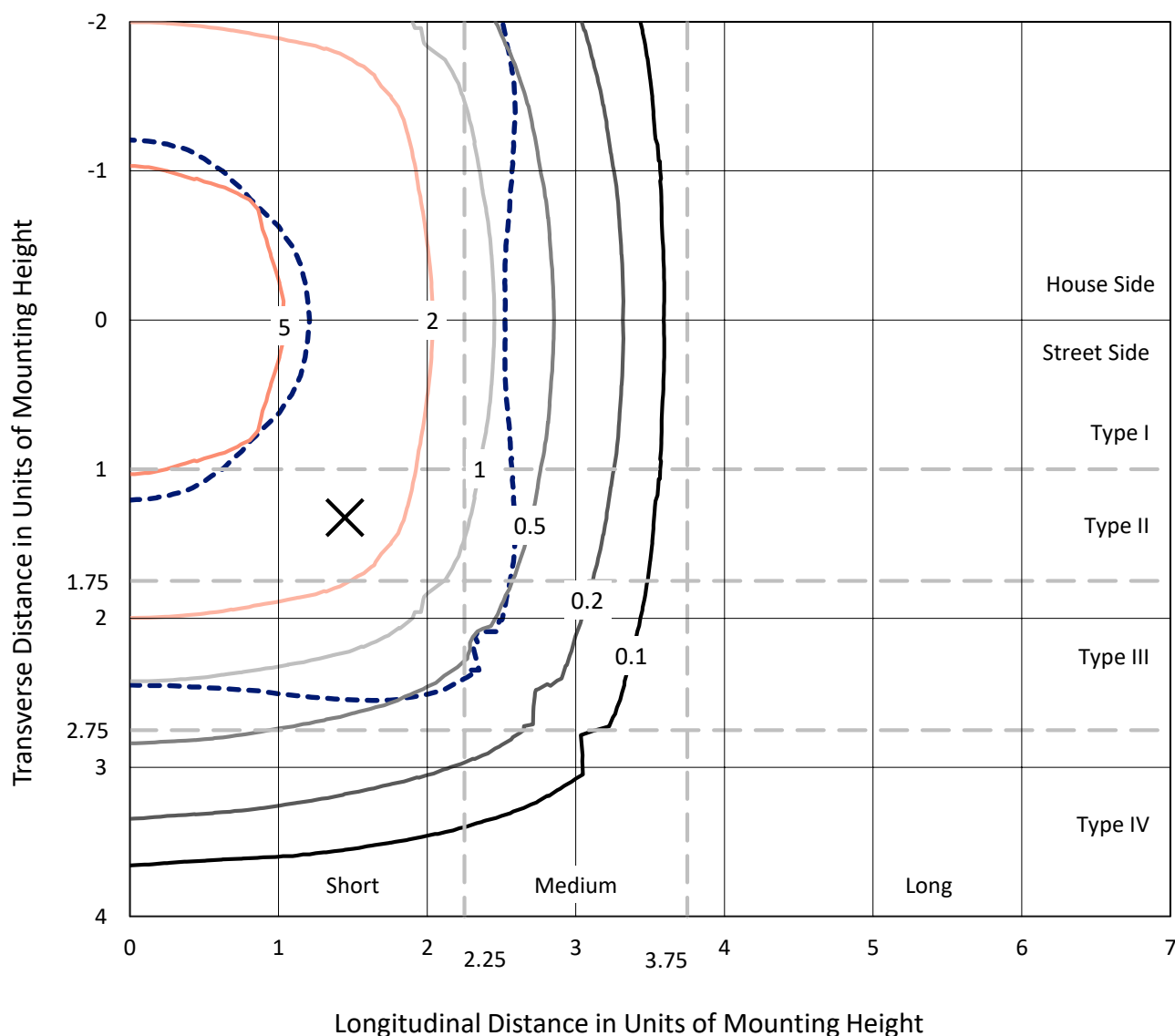


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

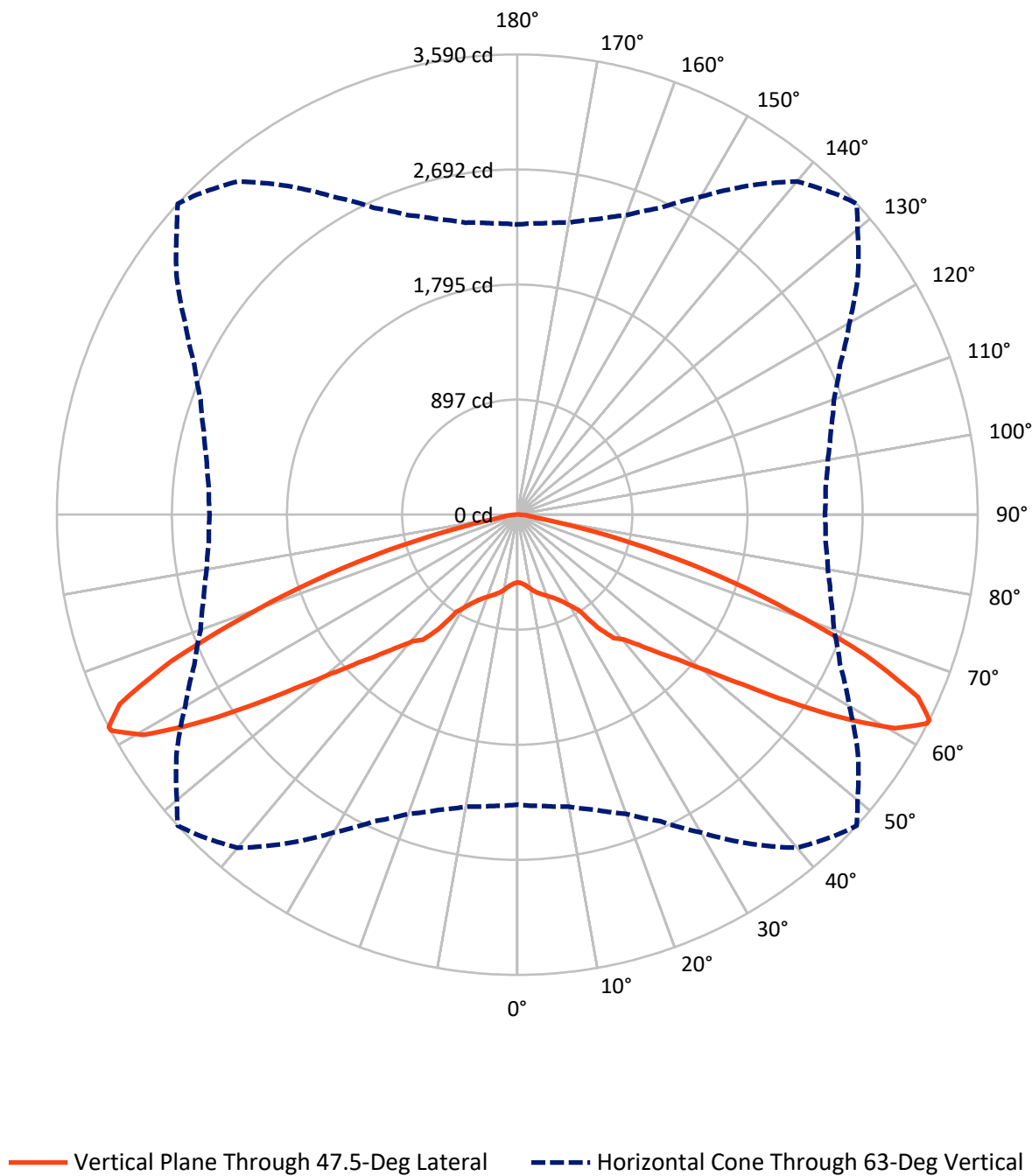


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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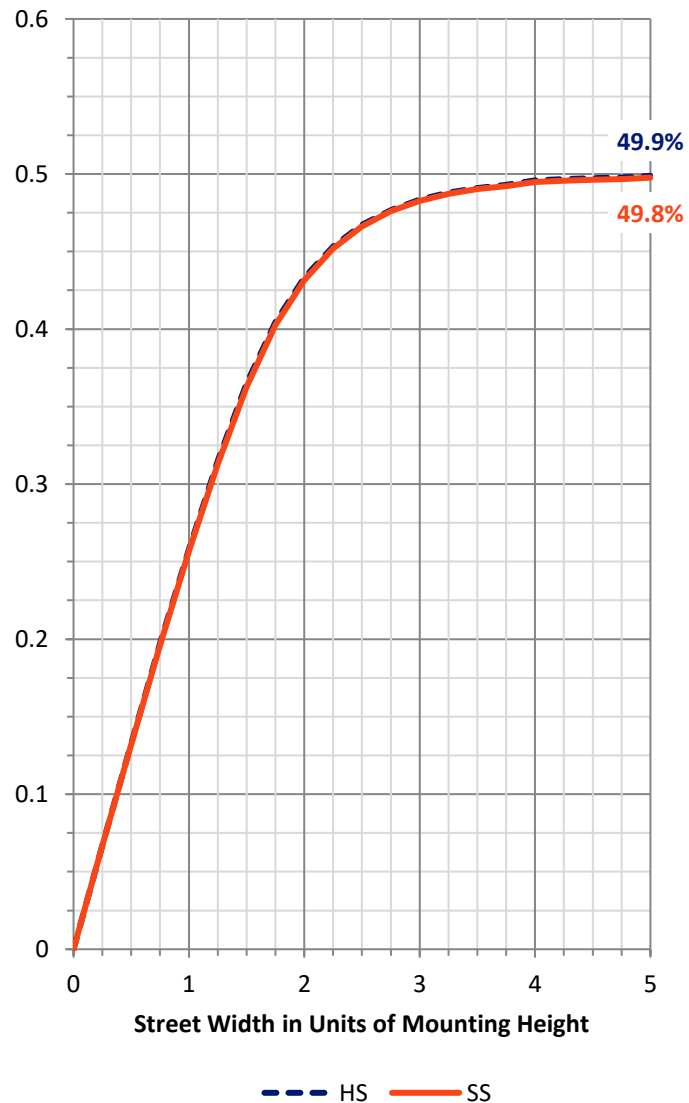
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3961.1	0.0	3961.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3961.1	0.0	3961.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7922.2	0.0	7922.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.7
10°-20°	180.5	2.3
20°-30°	345.3	4.4
30°-40°	660.6	8.3
40°-50°	1143.0	14.4
50°-60°	2052.7	25.9
60°-70°	2496.2	31.5
70°-80°	901.5	11.4
80°-90°	89.3	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°	7922.2	100.0
0°-180°	7922.2	100.0



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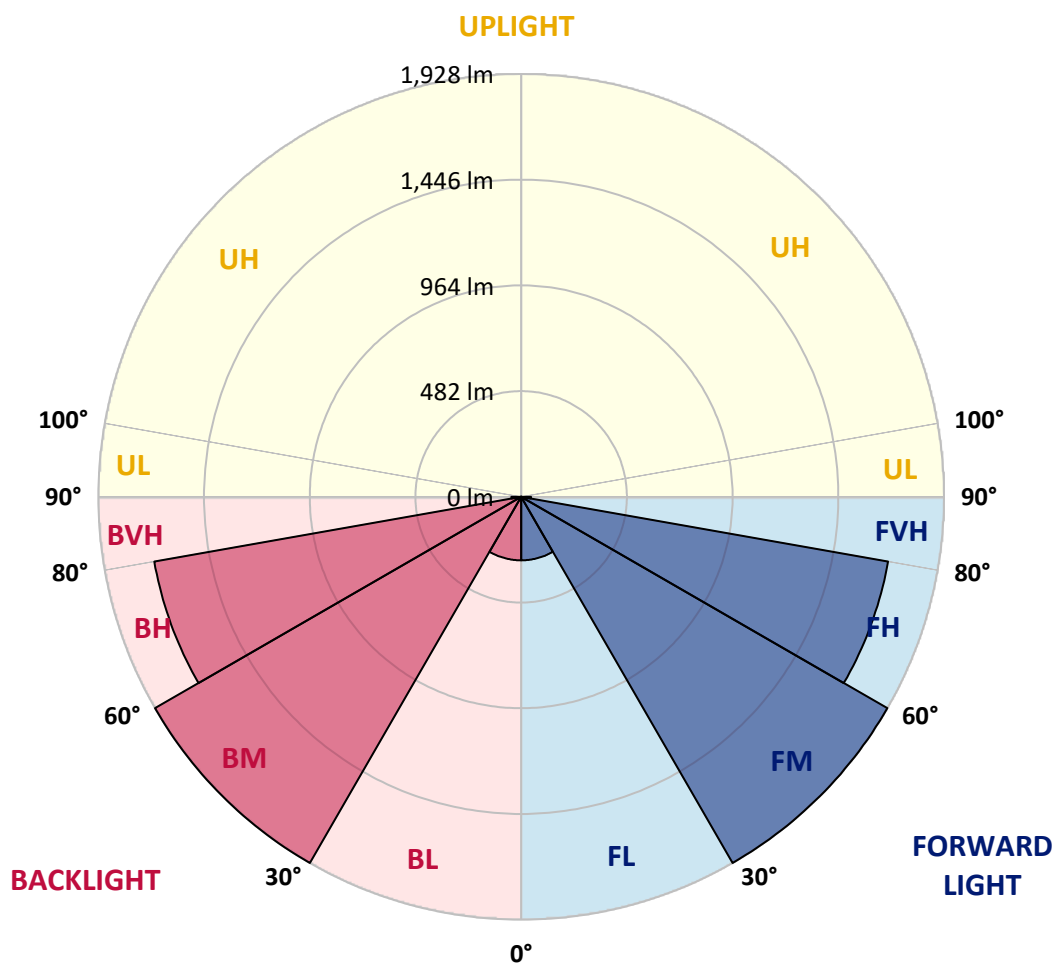
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.5	3.7			
FM	(30°-60°)	1928.2	24.3			
FH	(60°-80°)	1698.8	21.4			G1/1800
FVH	(80°-90°)	44.6	0.6			G1/100
BL	(0°-30°)	289.5	3.7	B1/500		
BM	(30°-60°)	1928.2	24.3	B2/2500		
BH	(60°-80°)	1698.8	21.4	B3/2500		G1/1800
BVH	(80°-90°)	44.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0
2.5°	532.4	531.5	532.0	532.4	532.0	531.5	531.5	531.5	532.4	531.5	533.9
5°	542.9	541.9	542.3	542.3	542.3	541.4	541.4	541.4	540.9	541.4	546.8
7.5°	562.7	561.2	560.7	561.7	560.7	560.2	559.7	559.7	558.7	558.7	565.6
10°	586.4	584.5	585.5	586.0	584.5	583.5	583.5	583.5	582.0	581.5	590.4
12.5°	612.7	611.7	611.7	610.7	610.2	609.2	608.8	609.2	607.3	607.3	616.2
15°	638.0	636.0	636.5	635.0	634.0	633.0	632.5	632.0	631.0	631.0	636.5
17.5°	661.3	659.8	659.3	657.8	656.3	654.8	653.8	653.3	651.8	651.8	656.8
20°	685.5	684.0	683.0	680.6	678.1	676.6	674.6	673.6	671.6	672.1	677.6
22.5°	713.3	710.8	708.8	706.8	702.4	699.4	696.9	694.9	694.0	694.0	701.3
25°	750.4	748.9	745.9	739.5	734.0	729.6	725.6	723.7	721.7	720.7	732.1
27.5°	796.0	794.5	790.5	784.1	776.6	769.2	764.8	761.3	758.8	757.3	773.7
30°	856.4	853.9	850.4	840.1	833.6	822.2	817.3	812.3	806.9	808.4	827.7
32.5°	974.8	971.3	960.4	949.0	929.2	913.9	898.0	886.1	874.7	873.2	894.1
35°	1082.3	1080.8	1078.8	1070.9	1063.4	1054.0	1046.6	1034.2	1023.8	1021.3	1079.8
37.5°	1140.2	1143.7	1140.7	1139.7	1139.7	1144.2	1158.1	1171.9	1181.8	1187.8	1220.5
40°	1228.9	1228.9	1225.4	1223.4	1219.4	1225.4	1231.4	1241.8	1246.2	1246.7	1279.9
42.5°	1329.4	1329.9	1326.5	1320.5	1318.5	1324.0	1331.9	1341.8	1347.8	1349.2	1387.9
45°	1441.4	1439.9	1436.9	1434.9	1436.4	1441.4	1450.8	1470.1	1479.0	1486.0	1528.0
47.5°	1562.7	1572.6	1564.2	1565.7	1565.7	1581.1	1602.4	1618.2	1632.5	1645.9	1690.5
50°	1721.7	1723.2	1724.7	1729.1	1732.1	1752.4	1779.2	1798.0	1818.8	1836.1	1909.0
52.5°	1934.2	1931.2	1938.7	1943.6	1960.4	1971.4	2015.9	2039.7	2068.4	2090.7	2197.2
55°	2188.3	2186.8	2197.7	2201.7	2224.0	2250.7	2300.2	2352.2	2401.3	2428.5	2574.2
57.5°	2370.6	2374.6	2393.3	2419.6	2463.2	2520.2	2594.0	2708.9	2802.0	2831.7	2992.2
60°	2410.7	2423.6	2451.8	2504.3	2579.1	2685.1	2830.2	3006.1	3176.5	3233.4	3384.0
62.5°	2298.2	2313.1	2354.7	2417.6	2515.2	2672.2	2881.7	3129.9	3383.0	3509.8	3585.6
63°	2262.6	2280.9	2312.2	2384.9	2484.0	2639.0	2861.9	3129.4	3391.9	3530.1	3589.6
65°	2095.2	2098.6	2145.2	2218.0	2329.4	2490.4	2715.3	3024.4	3315.7	3475.1	3434.0
67.5°	1802.9	1817.3	1856.5	1929.7	2038.2	2205.7	2449.8	2735.6	2991.7	3119.0	2935.3
70°	1456.7	1455.7	1504.3	1563.2	1658.8	1805.9	2019.9	2278.0	2481.1	2573.6	2266.1
72.5°	1040.6	1014.9	1050.5	1115.9	1194.2	1311.6	1481.0	1681.6	1863.4	1943.6	1656.8
75°	474.0	467.1	498.8	563.6	642.9	747.4	886.6	1060.0	1234.3	1328.5	1055.5
77.5°	159.5	161.5	173.9	197.2	239.8	292.3	378.9	489.8	631.0	724.1	495.3
80°	107.0	110.0	113.9	117.4	122.3	130.3	149.1	177.8	221.4	268.0	156.5
82.5°	87.7	91.1	100.1	104.0	107.0	109.4	110.9	112.9	112.9	113.9	99.1
85°	62.9	68.8	80.8	88.1	91.1	93.1	95.6	98.6	94.1	90.1	76.8
87.5°	21.8	29.7	43.6	48.1	51.5	52.0	55.5	61.4	58.4	47.6	23.3
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°	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0
2.5°	531.5	531.0	531.5	532.0	532.0	532.0	532.4	533.0	533.0
5°	541.4	541.9	541.4	541.9	541.9	542.3	542.3	543.4	543.4
7.5°	558.2	559.2	558.7	559.7	559.7	560.7	560.2	561.7	561.7
10°	581.0	582.0	583.0	583.5	583.0	584.0	584.9	585.5	584.9
12.5°	606.8	607.3	606.8	607.7	607.7	608.8	608.8	610.2	610.2
15°	630.5	630.1	629.5	631.0	632.0	632.5	633.5	635.0	633.5
17.5°	651.8	652.3	651.4	652.8	654.8	656.3	657.3	659.3	658.7
20°	673.1	672.1	673.1	675.6	677.6	679.6	681.5	684.5	684.0
22.5°	694.0	694.9	697.4	699.4	702.8	705.8	708.3	712.3	713.8
25°	723.2	723.2	727.1	729.6	734.6	738.5	743.9	748.4	750.9
27.5°	760.3	760.3	764.8	770.2	777.7	784.6	790.5	796.4	795.5
30°	810.8	813.3	817.3	824.2	834.1	842.5	850.4	856.4	856.9
32.5°	877.2	880.2	892.1	909.9	930.7	946.6	958.4	972.8	974.8
35°	1027.8	1035.2	1050.5	1064.9	1073.3	1082.8	1088.7	1089.2	1090.2
37.5°	1186.3	1173.4	1161.5	1150.6	1145.6	1144.7	1144.7	1146.7	1147.6
40°	1244.2	1237.8	1232.3	1225.4	1227.4	1226.9	1230.4	1233.4	1235.3
42.5°	1343.3	1338.4	1333.4	1324.5	1329.4	1327.9	1332.9	1337.3	1339.8
45°	1481.5	1466.2	1455.2	1440.9	1445.8	1442.9	1442.9	1448.3	1449.3
47.5°	1634.0	1616.2	1593.9	1576.1	1570.1	1564.7	1569.7	1569.7	1564.2
50°	1816.8	1795.5	1769.3	1740.5	1730.6	1725.2	1727.2	1729.6	1714.3
52.5°	2065.0	2041.2	2004.1	1960.4	1951.0	1946.6	1945.6	1942.1	1938.2
55°	2401.3	2356.7	2311.1	2253.7	2236.3	2231.4	2231.9	2227.9	2237.3
57.5°	2798.0	2732.6	2627.6	2557.8	2516.2	2500.3	2486.0	2480.0	2480.5
60°	3190.8	3057.6	2900.6	2778.7	2691.5	2636.0	2592.5	2568.2	2561.3
62.5°	3443.9	3234.4	2998.6	2801.0	2657.9	2566.2	2497.4	2453.8	2439.9
63°	3463.7	3241.9	2989.7	2777.7	2627.2	2531.0	2458.7	2413.7	2398.8
65°	3420.7	3167.0	2873.3	2620.7	2455.8	2349.3	2271.0	2228.4	2217.0
67.5°	3085.8	2874.8	2575.6	2314.6	2148.2	2040.2	1950.5	1909.9	1897.1
70°	2510.3	2365.6	2120.5	1897.6	1742.5	1638.5	1547.9	1514.2	1513.7
72.5°	1860.9	1673.2	1527.1	1363.6	1228.4	1145.6	1066.9	1029.2	1010.5
75°	1230.8	1029.8	866.3	728.6	593.9	519.6	430.9	392.8	370.5
77.5°	620.2	459.7	329.4	228.4	177.3	145.6	133.3	126.8	126.3
80°	206.5	155.0	133.3	124.8	122.3	122.8	121.4	118.9	115.9
82.5°	114.4	120.4	121.4	117.9	117.9	115.9	113.9	104.5	99.5
85°	98.1	108.0	109.0	107.0	106.5	103.5	100.1	87.2	79.7
87.5°	61.4	70.9	69.4	61.9	68.3	63.9	60.4	39.1	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)