

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: P157333

Luminaire Tested: **VST-F03-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157333
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6686.3 lumens
Efficiency: N/A
Efficacy: 85.4 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

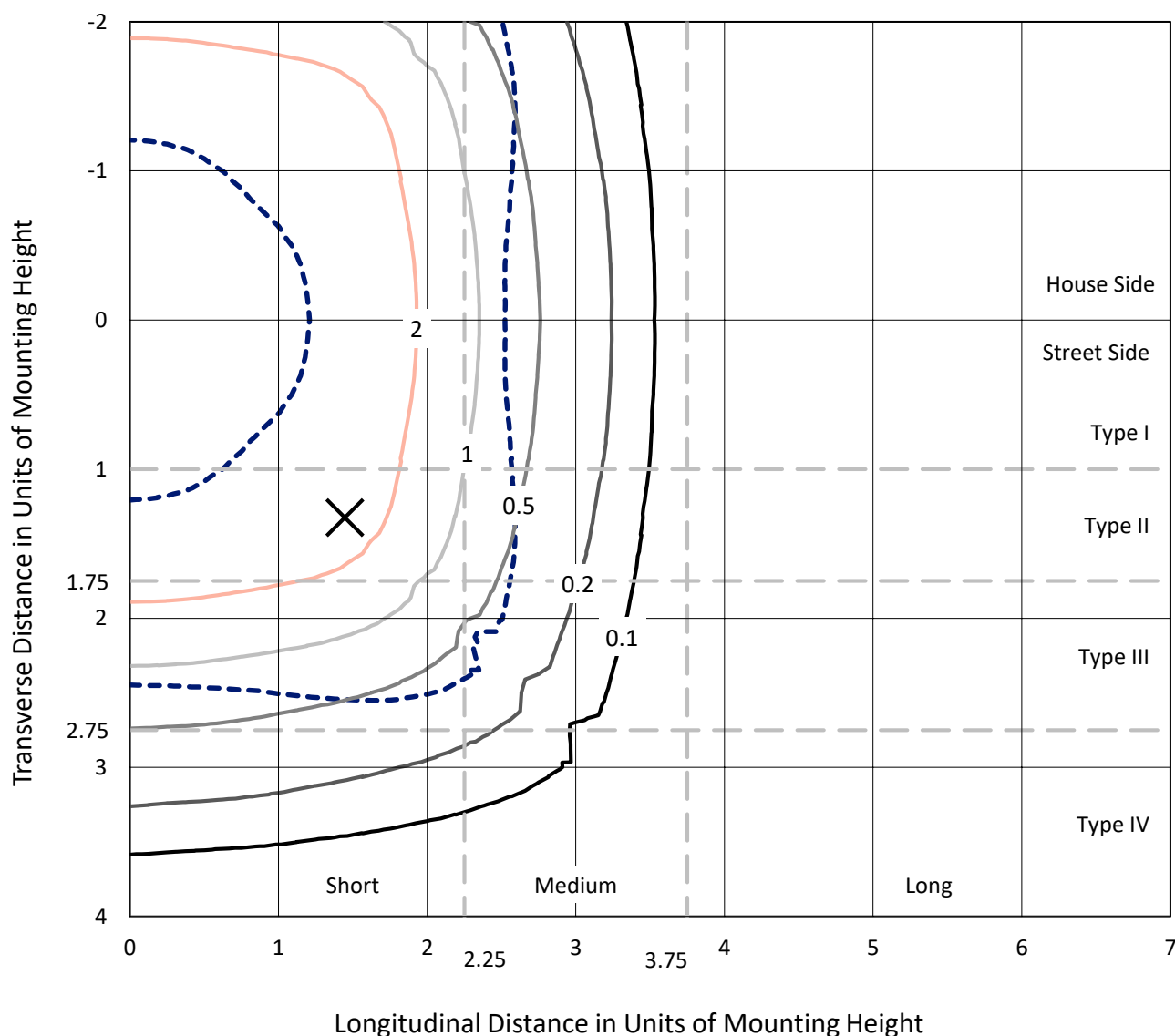


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

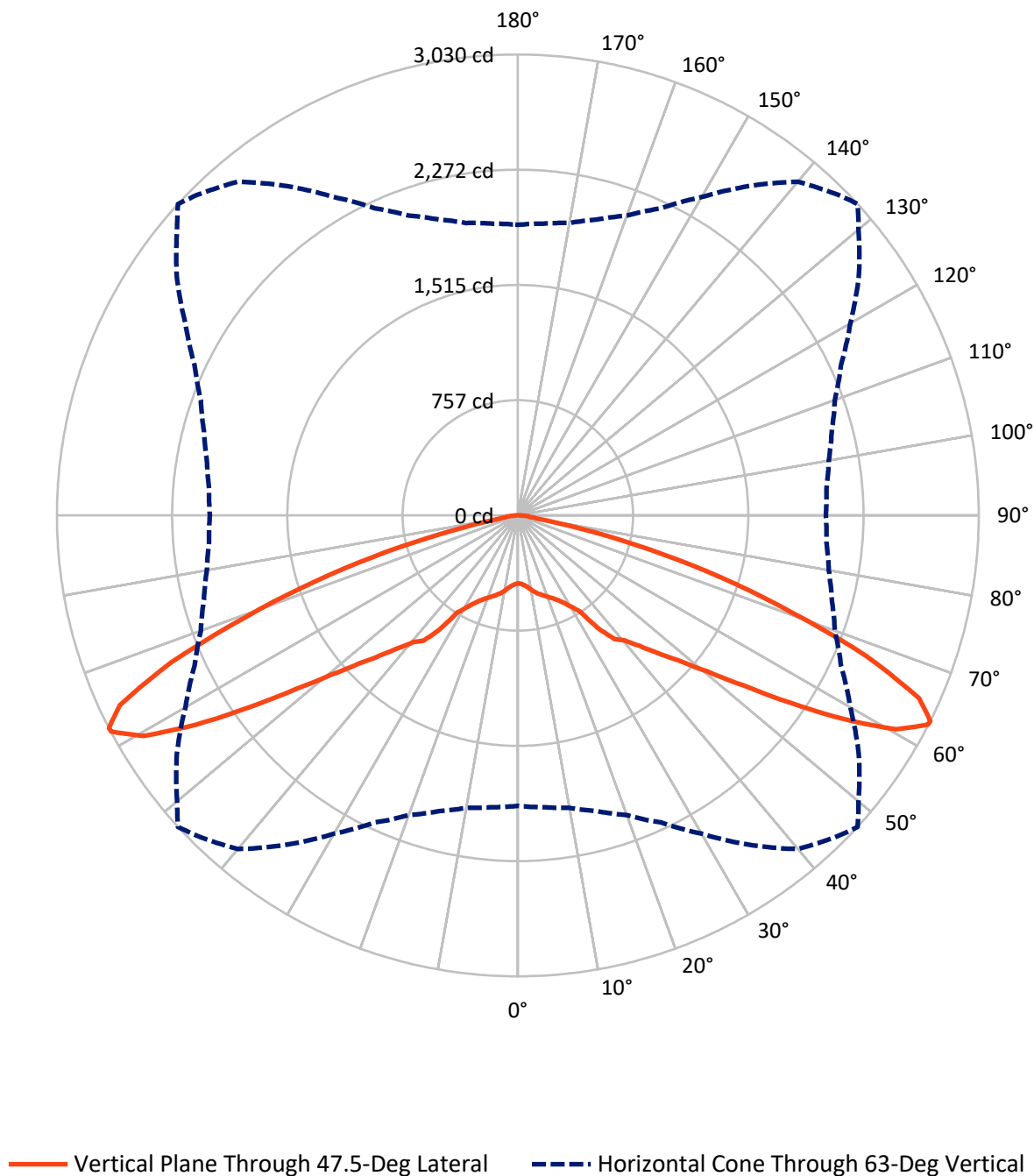


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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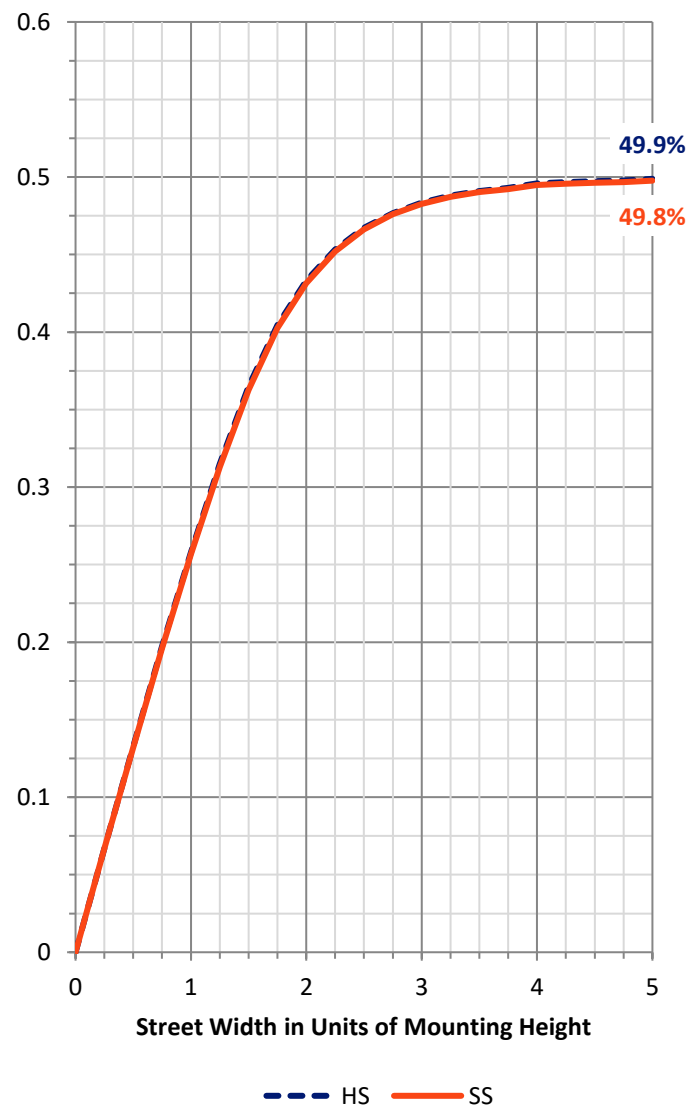
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3343.1	0.0	3343.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3343.1	0.0	3343.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6686.3	0.0	6686.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	0.7
10°-20°	152.4	2.3
20°-30°	291.5	4.4
30°-40°	557.5	8.3
40°-50°	964.7	14.4
50°-60°	1732.5	25.9
60°-70°	2106.8	31.5
70°-80°	760.9	11.4
80°-90°	75.4	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°	6686.3	100.0
0°-180°	6686.3	100.0

Coefficient of Utilization



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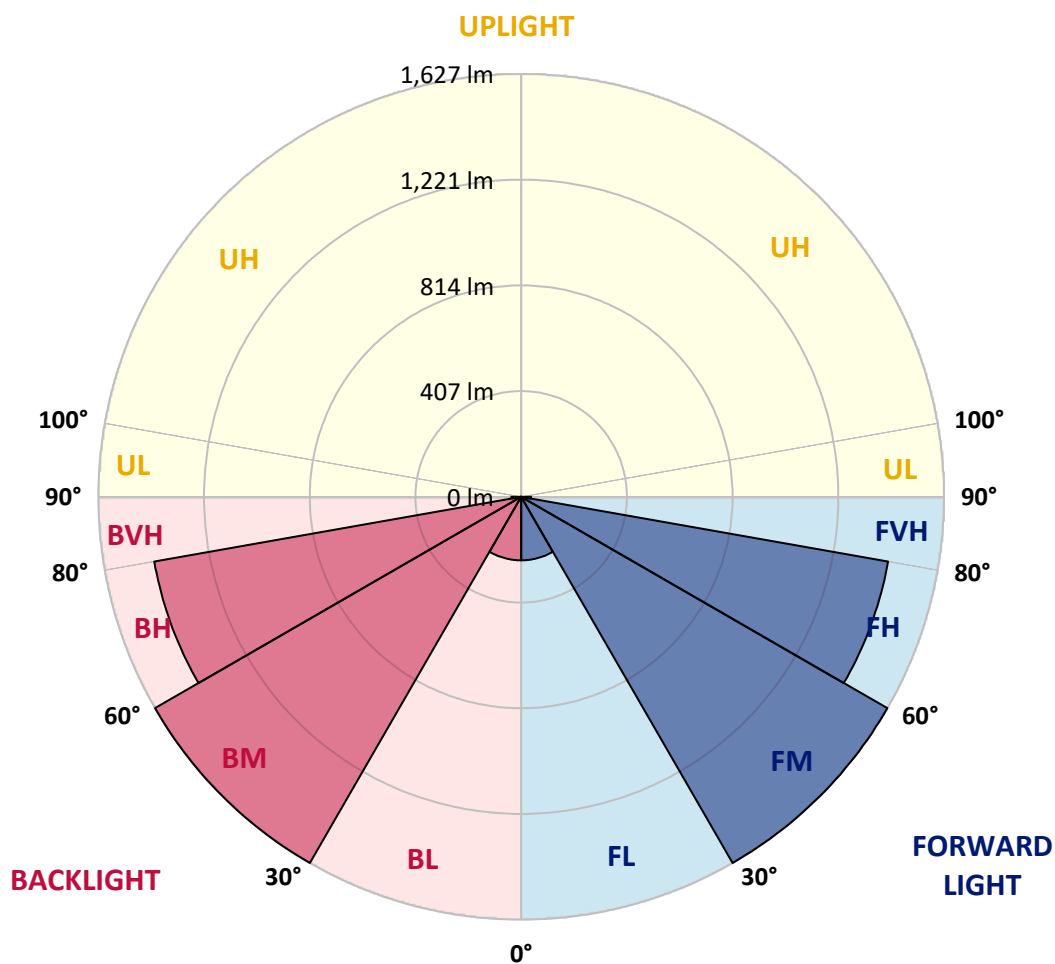
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.3	3.7			
FM	(30°-60°)	1627.3	24.3			
FH	(60°-80°)	1433.8	21.4			G1/1800
FVH	(80°-90°)	37.7	0.6			G1/100
BL	(0°-30°)	244.3	3.7	B1/500		
BM	(30°-60°)	1627.3	24.3	B2/2500		
BH	(60°-80°)	1433.8	21.4	B3/2500		G1/1800
BVH	(80°-90°)	37.7	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°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	449.4	448.6	449.0	449.4	449.0	448.6	448.6	448.6	449.4	448.6	450.7
5°	458.2	457.3	457.7	457.7	457.7	456.9	456.9	456.9	456.5	456.9	461.5
7.5°	474.9	473.6	473.2	474.1	473.2	472.8	472.4	472.4	471.5	471.5	477.4
10°	494.9	493.3	494.1	494.5	493.3	492.5	492.5	492.5	491.2	490.8	498.3
12.5°	517.1	516.3	516.3	515.5	515.0	514.2	513.8	514.2	512.5	512.5	520.0
15°	538.4	536.8	537.2	535.9	535.1	534.2	533.8	533.4	532.6	532.6	537.2
17.5°	558.1	556.9	556.4	555.2	553.9	552.7	551.8	551.4	550.1	550.1	554.3
20°	578.6	577.3	576.5	574.4	572.3	571.0	569.4	568.6	566.9	567.3	571.9
22.5°	602.0	599.9	598.2	596.5	592.8	590.3	588.2	586.5	585.7	585.7	592.0
25°	633.4	632.1	629.6	624.1	619.6	615.8	612.4	610.7	609.1	608.3	617.9
27.5°	671.8	670.6	667.2	661.7	655.5	649.2	645.5	642.5	640.4	639.2	653.0
30°	722.8	720.7	717.8	709.0	703.6	694.0	689.8	685.6	681.0	682.3	698.5
32.5°	822.7	819.8	810.6	800.9	784.3	771.3	757.9	747.9	738.2	737.0	754.6
35°	913.4	912.2	910.5	903.8	897.5	889.6	883.3	872.9	864.1	862.0	911.3
37.5°	962.3	965.3	962.8	961.9	961.9	965.7	977.4	989.1	997.4	1002.5	1030.1
40°	1037.2	1037.2	1034.2	1032.5	1029.2	1034.2	1039.3	1048.0	1051.8	1052.2	1080.2
42.5°	1122.0	1122.4	1119.5	1114.5	1112.8	1117.4	1124.1	1132.5	1137.5	1138.7	1171.4
45°	1216.5	1215.2	1212.7	1211.0	1212.3	1216.5	1224.4	1240.7	1248.3	1254.1	1289.6
47.5°	1318.9	1327.3	1320.2	1321.4	1321.4	1334.4	1352.3	1365.7	1377.8	1389.2	1426.8
50°	1453.1	1454.3	1455.6	1459.4	1461.9	1479.1	1501.6	1517.5	1535.0	1549.7	1611.1
52.5°	1632.5	1630.0	1636.2	1640.4	1654.6	1663.8	1701.4	1721.5	1745.8	1764.5	1854.4
55°	1846.9	1845.7	1854.8	1858.2	1877.0	1899.6	1941.4	1985.3	2026.7	2049.7	2172.5
57.5°	2000.8	2004.1	2020.0	2042.2	2078.9	2127.0	2189.3	2286.2	2364.8	2389.9	2525.4
60°	2034.6	2045.5	2069.3	2113.6	2176.7	2266.2	2388.7	2537.1	2680.9	2729.0	2856.1
62.5°	1939.7	1952.3	1987.4	2040.5	2122.8	2255.3	2432.2	2641.6	2855.2	2962.3	3026.2
63°	1909.6	1925.1	1951.4	2012.9	2096.5	2227.3	2415.4	2641.2	2862.7	2979.4	3029.5
65°	1768.3	1771.3	1810.6	1872.0	1966.0	2101.9	2291.7	2552.6	2798.3	2933.0	2898.3
67.5°	1521.7	1533.8	1566.8	1628.7	1720.3	1861.6	2067.7	2308.9	2525.0	2632.4	2477.3
70°	1229.5	1228.6	1269.6	1319.3	1400.0	1524.2	1704.8	1922.6	2093.9	2172.1	1912.6
72.5°	878.3	856.6	886.7	941.8	1007.9	1107.0	1249.9	1419.2	1572.7	1640.4	1398.4
75°	400.1	394.2	421.0	475.7	542.6	630.8	748.3	894.6	1041.8	1121.2	890.8
77.5°	134.6	136.3	146.8	166.4	202.3	246.7	319.8	413.5	532.6	611.2	418.0
80°	90.3	92.8	96.1	99.1	103.3	109.9	125.8	150.1	186.8	226.1	132.1
82.5°	74.0	76.9	84.4	87.8	90.3	92.4	93.7	95.3	95.3	96.1	83.6
85°	53.1	58.1	68.2	74.4	76.9	78.6	80.7	83.2	79.4	76.1	64.8
87.5°	18.4	25.1	36.8	40.6	43.5	43.9	46.8	51.8	49.3	40.1	19.6
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°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	448.6	448.1	448.6	449.0	449.0	449.0	449.4	449.8	449.8
5°	456.9	457.3	456.9	457.3	457.3	457.7	457.7	458.6	458.6
7.5°	471.1	472.0	471.5	472.4	472.4	473.2	472.8	474.1	474.1
10°	490.4	491.2	492.1	492.5	492.1	492.9	493.7	494.1	493.7
12.5°	512.1	512.5	512.1	512.9	512.9	513.8	513.8	515.0	515.0
15°	532.1	531.7	531.4	532.6	533.4	533.8	534.7	535.9	534.7
17.5°	550.1	550.6	549.7	551.0	552.7	553.9	554.8	556.4	556.0
20°	568.1	567.3	568.1	570.2	571.9	573.5	575.2	577.7	577.3
22.5°	585.7	586.5	588.6	590.3	593.2	595.7	597.8	601.1	602.4
25°	610.3	610.3	613.7	615.8	620.0	623.3	627.9	631.7	633.8
27.5°	641.7	641.7	645.5	650.0	656.3	662.2	667.2	672.2	671.4
30°	684.4	686.4	689.8	695.6	704.0	711.1	717.8	722.8	723.2
32.5°	740.3	742.9	752.9	767.9	785.5	798.9	808.9	821.0	822.7
35°	867.4	873.7	886.7	898.8	905.9	913.9	918.8	919.3	920.1
37.5°	1001.2	990.4	980.3	971.1	966.9	966.1	966.1	967.7	968.6
40°	1050.1	1044.7	1040.1	1034.2	1035.9	1035.5	1038.4	1040.9	1042.6
42.5°	1133.7	1129.6	1125.4	1117.9	1122.0	1120.7	1124.9	1128.7	1130.8
45°	1250.3	1237.4	1228.2	1216.1	1220.3	1217.8	1217.8	1222.4	1223.2
47.5°	1379.1	1364.0	1345.3	1330.2	1325.2	1320.6	1324.8	1324.8	1320.2
50°	1533.4	1515.4	1493.2	1469.0	1460.6	1456.0	1457.7	1459.8	1446.8
52.5°	1742.8	1722.7	1691.4	1654.6	1646.6	1642.9	1642.1	1639.1	1635.8
55°	2026.7	1989.1	1950.6	1902.1	1887.5	1883.3	1883.7	1880.3	1888.3
57.5°	2361.5	2306.3	2217.7	2158.7	2123.6	2110.3	2098.1	2093.2	2093.6
60°	2693.0	2580.5	2448.1	2345.2	2271.7	2224.8	2188.0	2167.6	2161.7
62.5°	2906.6	2729.8	2530.8	2364.0	2243.2	2165.9	2107.7	2071.0	2059.3
63°	2923.4	2736.1	2523.3	2344.4	2217.3	2136.2	2075.2	2037.1	2024.6
65°	2887.0	2672.9	2425.1	2211.8	2072.6	1982.8	1916.7	1880.8	1871.2
67.5°	2604.4	2426.3	2173.8	1953.5	1813.0	1721.9	1646.2	1612.0	1601.1
70°	2118.7	1996.6	1789.6	1601.5	1470.7	1382.9	1306.4	1277.9	1277.5
72.5°	1570.6	1412.2	1288.8	1150.9	1036.7	966.9	900.5	868.7	852.8
75°	1038.8	869.1	731.2	614.9	501.2	438.5	363.7	331.5	312.7
77.5°	523.4	388.0	278.0	192.7	149.6	122.9	112.4	107.0	106.6
80°	174.3	130.9	112.4	105.4	103.3	103.7	102.4	100.3	97.8
82.5°	96.5	101.6	102.4	99.5	99.5	97.8	96.1	88.2	84.0
85°	82.8	91.1	92.0	90.3	89.9	87.4	84.4	73.6	67.3
87.5°	51.8	59.8	58.5	52.3	57.7	53.9	51.0	33.0	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)