

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: P148636

Luminaire Tested: **AVS-F04-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148636
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-F04-LED-E-U-5XQ-7050
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10776.1 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 102.2
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



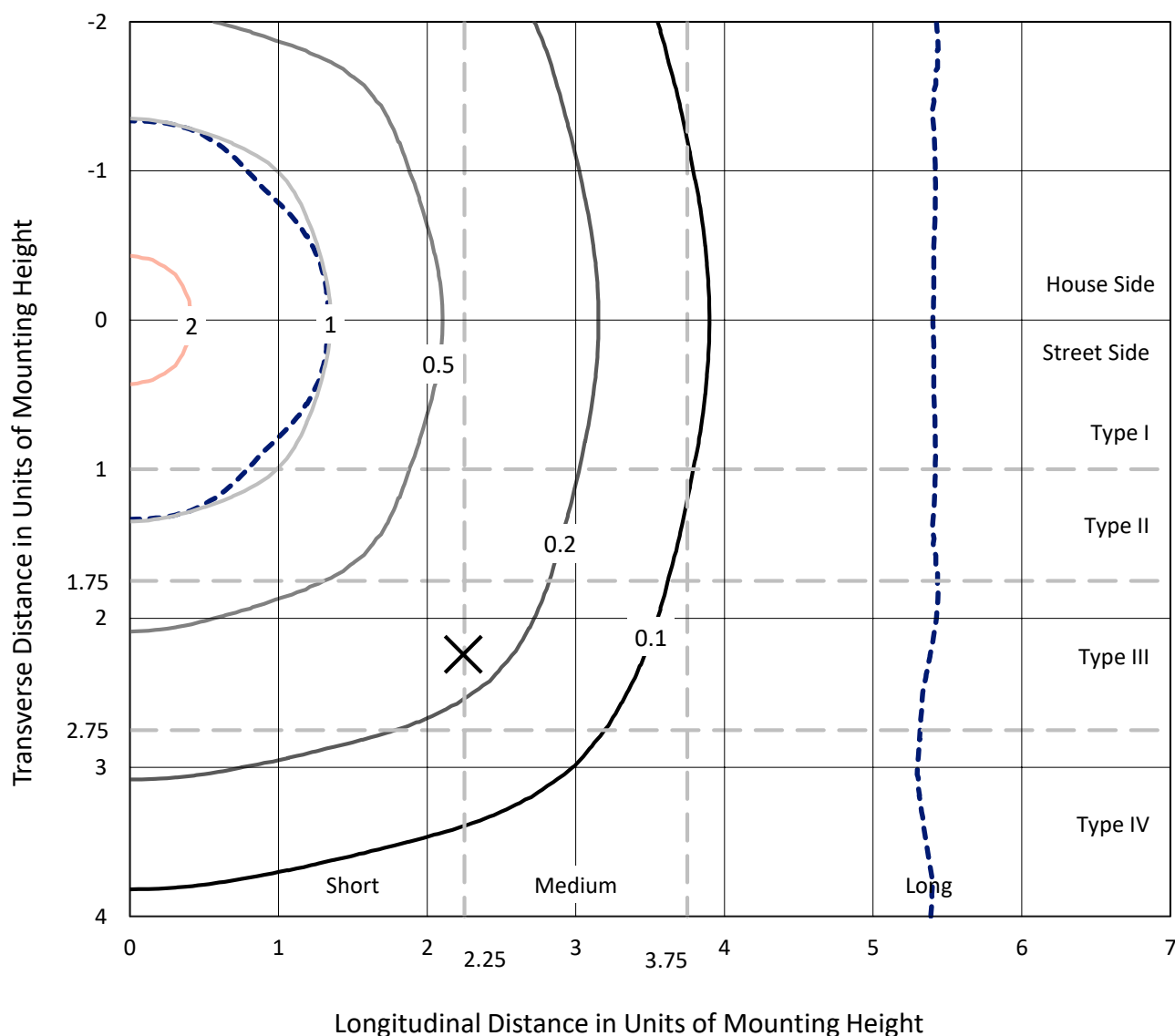
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

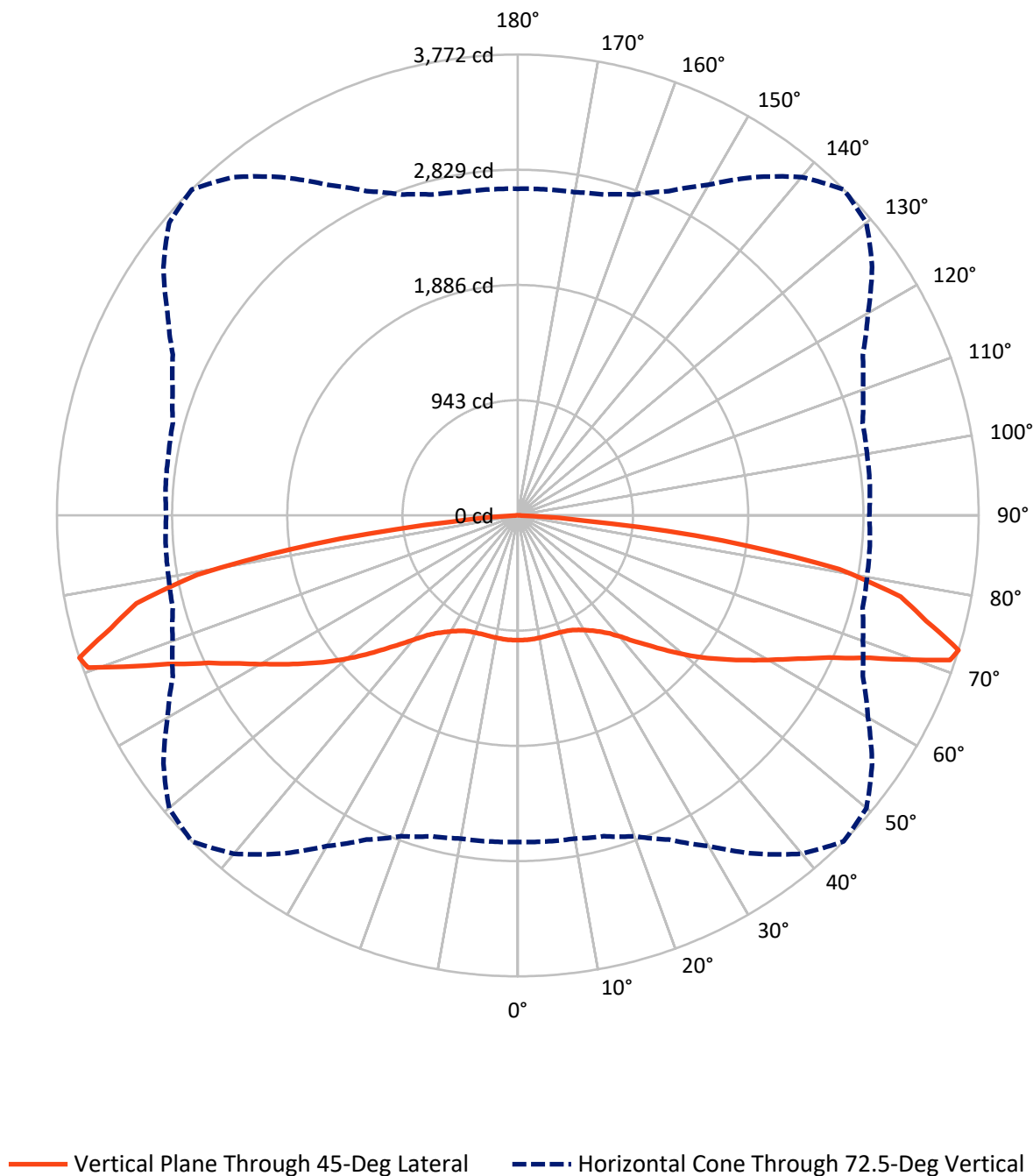


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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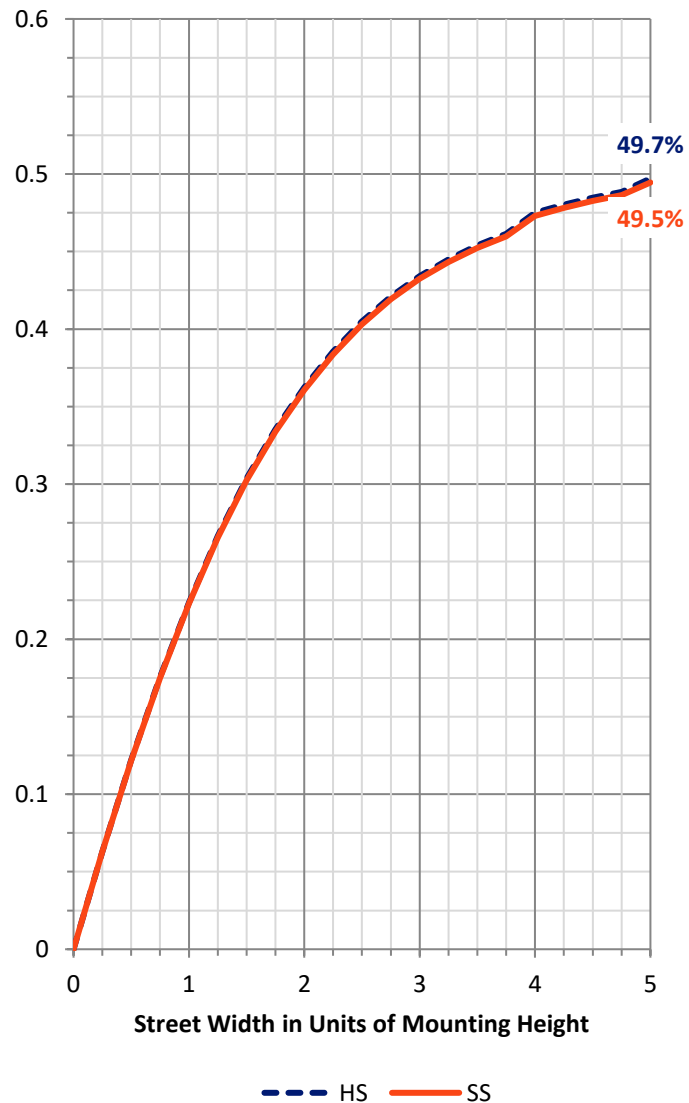
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5388.0	0.0	5388.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5388.0	0.0	5388.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10776.1	0.0	10776.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	0.9
10°-20°	287.8	2.7
20°-30°	482.0	4.5
30°-40°	734.8	6.8
40°-50°	1173.3	10.9
50°-60°	1804.1	16.7
60°-70°	2626.8	24.4
70°-80°	2959.1	27.5
80°-90°	610.9	5.7
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°	10776.1	100.0
0°-180°	10776.1	100.0

Coefficient of Utilization



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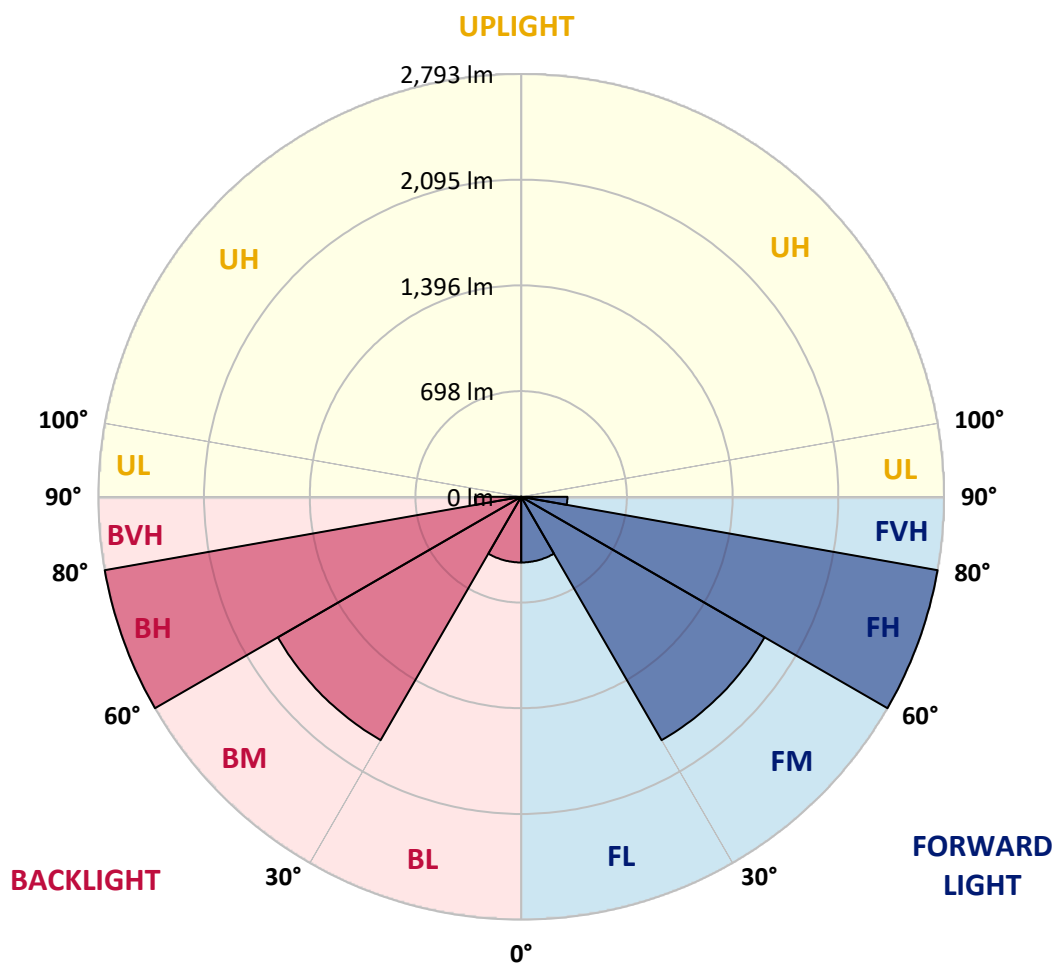
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.6	4.0			
FM	(30°-60°)	1856.1	17.2			
FH	(60°-80°)	2792.9	25.9			G2/5000
FVH	(80°-90°)	305.4	2.8			G3/500
BL	(0°-30°)	433.6	4.0	B1/500		
BM	(30°-60°)	1856.1	17.2	B2/2500		
BH	(60°-80°)	2792.9	25.9	B4/5000		G2/5000
BVH	(80°-90°)	305.4	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0
2.5°	1022.7	1023.2	1023.0	1022.4	1022.7	1022.4	1021.9	1021.6	1019.6	1020.7	1022.4
5°	1022.7	1022.2	1021.9	1021.6	1021.6	1022.4	1021.6	1020.7	1020.4	1021.0	1020.2
7.5°	1022.2	1021.0	1020.4	1020.1	1020.4	1020.7	1019.9	1018.8	1019.6	1018.8	1017.6
10°	1020.5	1019.6	1019.9	1018.8	1019.1	1018.8	1017.6	1016.8	1017.3	1016.5	1015.1
12.5°	1021.0	1019.6	1019.3	1018.8	1018.4	1018.1	1016.8	1015.3	1015.6	1015.0	1013.7
15°	1021.0	1020.1	1019.9	1018.8	1018.4	1017.8	1016.2	1015.6	1015.6	1014.8	1013.1
17.5°	1021.6	1021.0	1021.0	1019.6	1019.1	1018.8	1016.8	1016.0	1016.8	1015.1	1013.9
20°	1023.2	1022.7	1023.0	1022.2	1021.0	1021.0	1019.6	1019.1	1019.3	1019.1	1016.0
22.5°	1026.6	1026.6	1027.3	1026.9	1026.6	1026.9	1025.8	1025.8	1026.1	1026.1	1023.6
25°	1036.3	1036.0	1036.6	1036.5	1036.8	1038.8	1037.9	1037.6	1039.1	1039.1	1036.6
27.5°	1054.3	1053.8	1054.3	1054.9	1056.4	1058.9	1058.2	1059.2	1061.3	1060.8	1058.5
30°	1075.2	1074.6	1076.1	1077.7	1078.9	1082.9	1081.1	1085.4	1087.4	1089.0	1087.4
32.5°	1105.8	1105.7	1108.2	1109.4	1111.9	1115.9	1116.5	1119.8	1122.4	1125.2	1123.2
35°	1146.3	1145.8	1147.8	1149.7	1152.8	1156.6	1157.9	1162.5	1166.4	1168.4	1164.8
37.5°	1208.5	1205.4	1209.1	1210.2	1212.7	1213.6	1217.5	1223.2	1227.4	1226.8	1224.2
40°	1292.6	1292.0	1290.7	1288.9	1292.8	1294.3	1294.3	1302.0	1308.8	1307.6	1307.4
42.5°	1390.9	1388.4	1386.6	1386.6	1388.9	1389.4	1398.2	1403.9	1408.7	1409.8	1408.7
45°	1496.5	1493.9	1494.5	1493.5	1494.2	1497.9	1503.0	1513.5	1522.5	1522.8	1517.9
47.5°	1610.1	1602.2	1608.3	1599.6	1604.9	1607.8	1620.5	1635.8	1651.5	1654.3	1650.1
50°	1725.2	1724.4	1723.7	1722.1	1724.7	1730.9	1746.4	1770.4	1785.6	1795.9	1789.0
52.5°	1851.2	1846.9	1845.0	1842.1	1844.7	1856.8	1878.5	1899.5	1926.8	1938.4	1929.1
55°	1973.7	1972.2	1965.0	1964.7	1969.9	1988.9	2012.6	2038.3	2068.0	2081.0	2077.6
57.5°	2099.6	2091.4	2089.1	2085.8	2096.5	2114.3	2143.4	2189.6	2220.5	2235.1	2226.7
60°	2222.8	2216.5	2211.7	2210.6	2217.9	2242.8	2284.6	2340.2	2378.2	2397.5	2383.9
62.5°	2354.8	2350.9	2345.3	2338.8	2354.3	2386.2	2438.1	2499.7	2555.9	2579.7	2559.0
65°	2519.2	2511.0	2504.9	2496.6	2509.3	2549.4	2614.6	2701.3	2776.7	2804.4	2789.6
67.5°	2692.6	2685.0	2685.6	2680.4	2703.0	2758.7	2842.8	2960.5	3061.6	3108.8	3081.0
70°	2843.9	2848.2	2849.3	2869.8	2908.8	2993.6	3133.7	3318.0	3471.3	3543.3	3513.7
71°	2799.3	2808.6	2823.0	2844.5	2911.7	3011.9	3203.1	3426.4	3609.3	3731.4	3690.5
72.5°	2672.7	2678.4	2685.8	2718.5	2794.5	2927.3	3124.0	3379.3	3614.5	3772.3	3724.9
75°	2489.8	2495.2	2497.7	2520.6	2589.8	2705.6	2885.7	3112.1	3319.7	3454.1	3440.8
77.5°	2213.7	2214.5	2234.3	2269.6	2347.3	2479.7	2669.4	2904.4	3099.5	3203.9	3137.6
80°	1589.7	1579.0	1599.3	1644.8	1740.7	1892.6	2086.9	2355.1	2571.7	2669.4	2566.6
82.5°	604.8	637.5	689.2	764.4	796.9	965.7	1146.9	1304.5	1486.9	1690.8	1639.7
85°	64.9	73.2	91.8	113.8	143.6	198.8	274.7	374.9	462.2	543.2	482.3
87.5°	24.2	24.9	27.7	31.9	32.5	33.9	36.2	42.1	39.3	33.9	27.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0
2.5°	1021.0	1021.3	1021.0	1021.3	1021.3	1020.1	1020.4	1019.9
5°	1020.7	1019.9	1020.1	1020.4	1020.1	1020.7	1019.9	1020.4
7.5°	1019.3	1017.6	1018.2	1018.1	1017.6	1018.4	1017.8	1017.6
10°	1016.5	1014.3	1015.3	1014.8	1014.5	1014.8	1014.8	1014.8
12.5°	1014.0	1012.5	1012.8	1012.5	1012.2	1013.1	1012.8	1013.1
15°	1013.4	1011.1	1010.8	1010.3	1010.6	1011.1	1011.1	1012.0
17.5°	1012.8	1010.1	1009.7	1009.1	1009.4	1010.6	1010.8	1010.3
20°	1014.5	1012.2	1011.7	1011.1	1010.8	1012.2	1012.0	1012.0
22.5°	1022.4	1019.6	1019.3	1017.0	1016.2	1017.1	1016.5	1016.6
25°	1035.1	1031.7	1030.7	1027.6	1025.3	1025.3	1024.5	1023.8
27.5°	1058.0	1053.0	1051.8	1049.2	1046.1	1046.7	1045.0	1044.8
30°	1084.6	1080.0	1076.1	1072.3	1068.8	1067.4	1065.4	1065.1
32.5°	1119.3	1114.2	1109.4	1104.9	1099.8	1097.8	1094.4	1092.6
35°	1161.9	1155.1	1149.4	1146.3	1141.3	1138.8	1136.5	1139.1
37.5°	1221.5	1213.3	1210.5	1206.8	1203.4	1199.5	1200.3	1199.4
40°	1303.9	1296.6	1293.8	1287.3	1286.4	1281.9	1284.8	1282.0
42.5°	1405.9	1392.3	1390.4	1385.3	1383.5	1381.0	1382.2	1380.1
45°	1516.8	1504.7	1502.4	1494.2	1494.5	1488.6	1490.9	1490.8
47.5°	1641.7	1628.9	1618.4	1612.5	1610.3	1606.6	1608.6	1608.4
50°	1770.4	1753.2	1741.6	1730.1	1725.0	1726.3	1722.4	1729.1
52.5°	1908.7	1883.0	1866.6	1855.6	1846.0	1848.1	1848.6	1850.6
55°	2051.9	2019.2	1995.4	1981.0	1972.2	1972.8	1975.3	1977.6
57.5°	2195.9	2155.0	2122.8	2101.2	2095.6	2098.2	2098.2	2097.9
60°	2345.3	2296.2	2254.6	2230.4	2225.3	2223.8	2234.9	2231.2
62.5°	2505.7	2446.6	2403.7	2372.6	2365.3	2370.4	2380.3	2378.0
65°	2718.3	2636.7	2581.3	2550.6	2538.1	2543.2	2556.5	2555.9
67.5°	2992.4	2878.3	2805.3	2765.7	2756.7	2762.9	2770.2	2777.3
70°	3402.4	3239.5	3135.0	3049.4	3012.7	3005.7	3013.1	3013.4
71°	3546.7	3359.6	3193.2	3088.7	3028.6	3003.2	3005.2	2992.4
72.5°	3540.7	3310.1	3115.5	3006.2	2922.7	2902.4	2892.5	2877.3
75°	3302.2	3094.3	2925.5	2806.3	2725.9	2701.9	2684.4	2683.5
77.5°	2994.7	2841.5	2655.3	2529.1	2431.1	2391.3	2373.5	2373.0
80°	2407.4	2177.8	2041.8	1965.8	1847.5	1813.3	1777.2	1763.6
82.5°	1455.9	1137.6	925.0	822.0	765.0	629.9	565.3	534.7
85°	339.2	240.8	166.0	109.0	78.5	62.4	48.0	42.4
87.5°	22.9	18.0	16.2	13.0	9.9	9.5	5.9	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)