

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: P177347

Luminaire Tested: **VAL-E04-LED-E-U-WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177347
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-E04-LED-E-U-WQ-7030
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11296.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 97.2
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

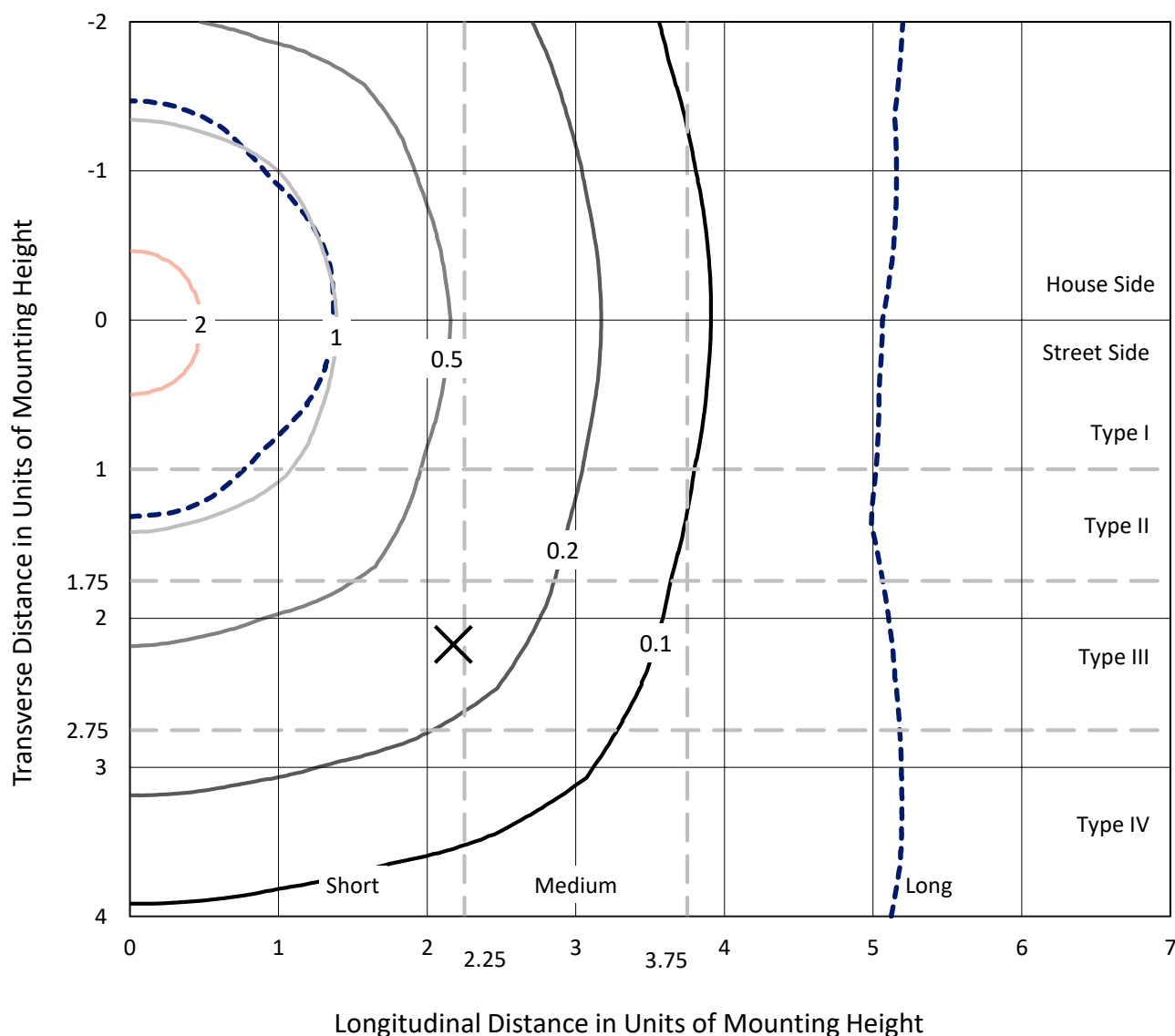


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

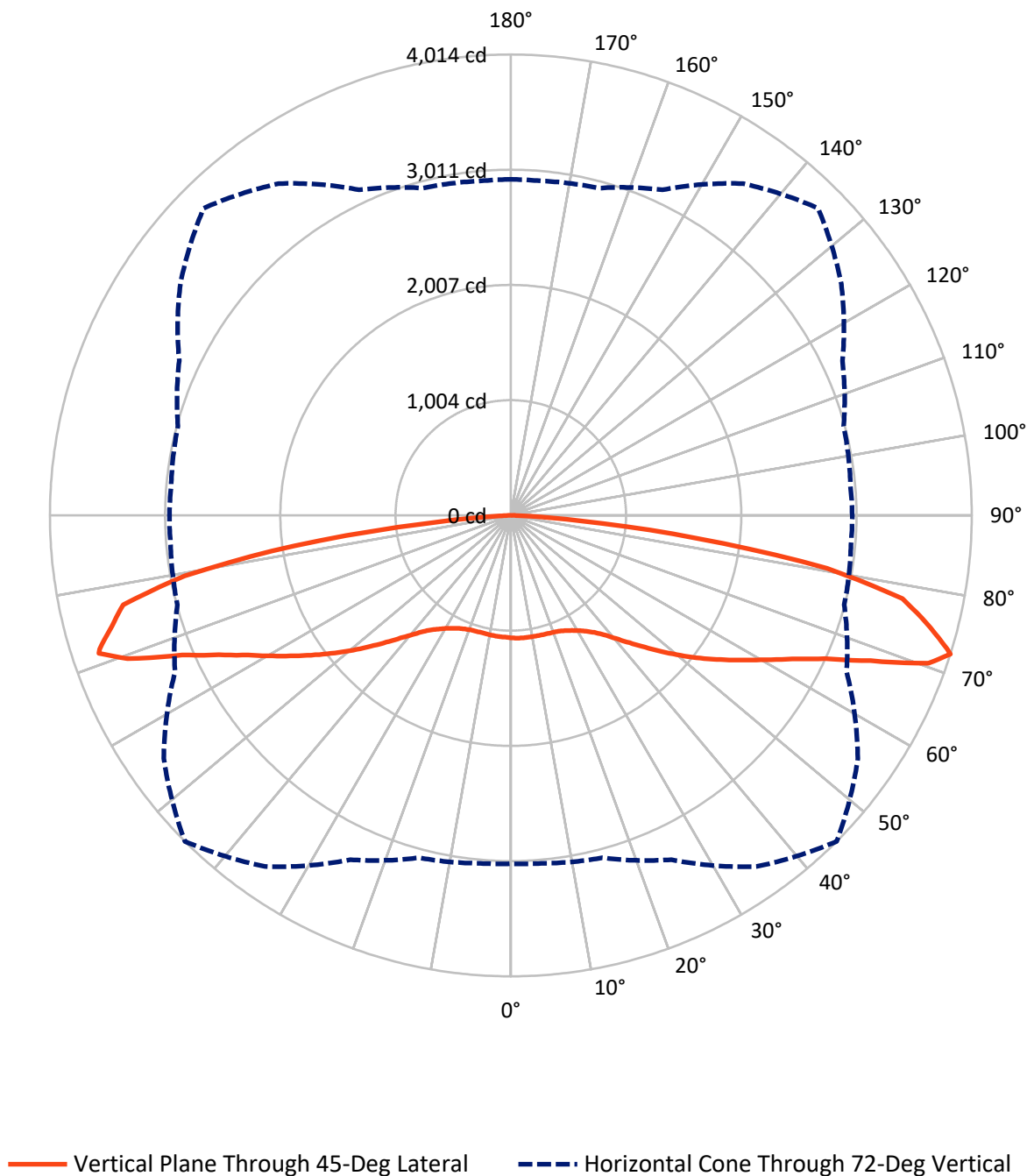


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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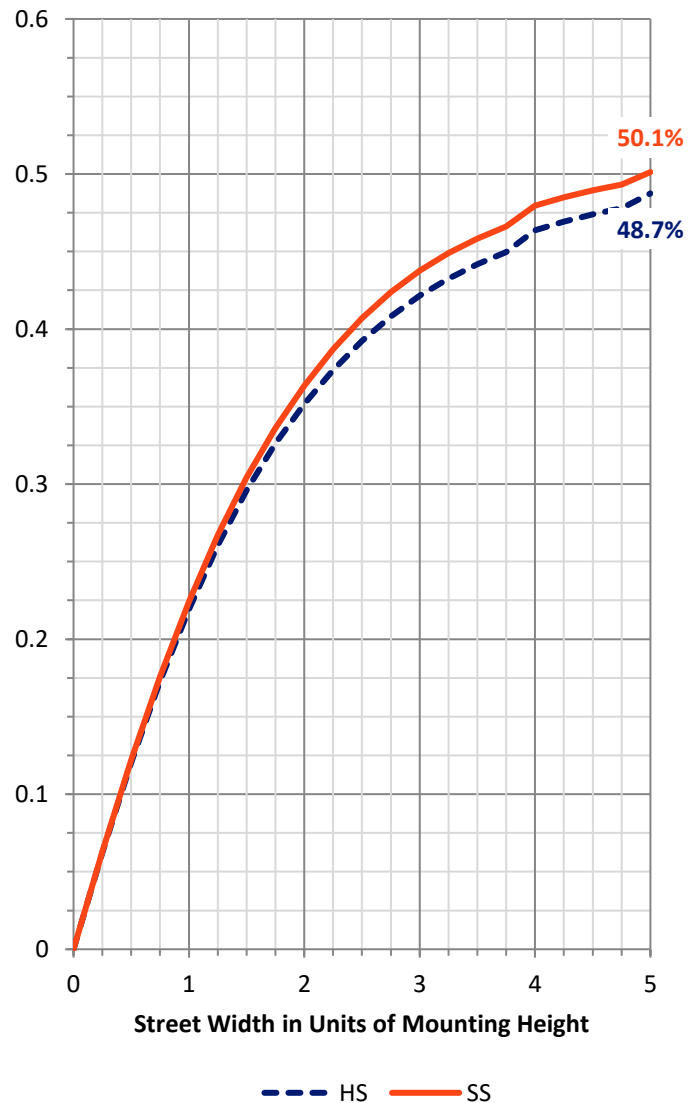
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5570.9	0.0	5570.9
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	5725.8	0.0	5725.8
	% Fixture	50.7	0.0	50.7
Total	Lumens	11296.7	0.0	11296.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	0.9
10°-20°	302.5	2.7
20°-30°	508.1	4.5
30°-40°	773.3	6.8
40°-50°	1222.4	10.8
50°-60°	1867.1	16.5
60°-70°	2735.3	24.2
70°-80°	3107.5	27.5
80°-90°	678.8	6.0
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°	11296.7	100.0
0°-180°	11296.7	100.0

Coefficient of Utilization



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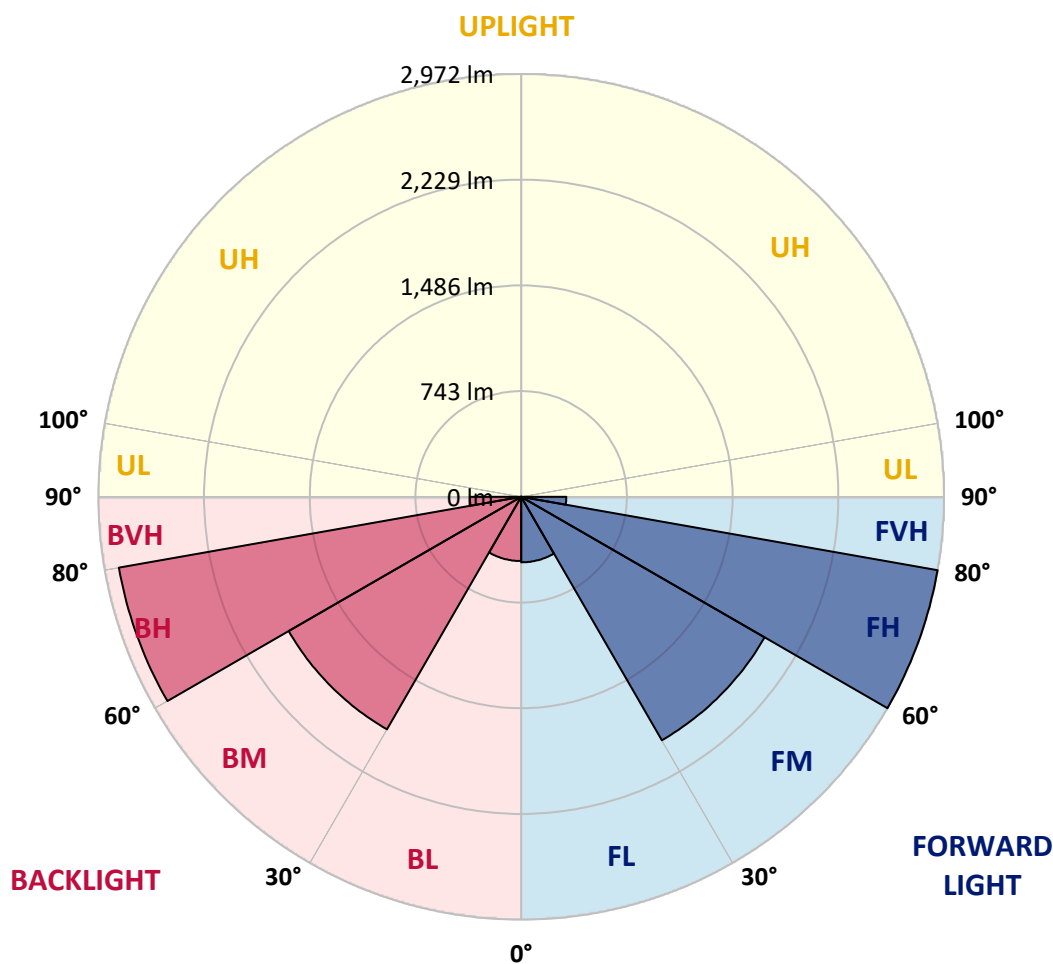
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.7	4.1			
FM	(30°-60°)	1975.8	17.5			
FH	(60°-80°)	2971.8	26.3			G2/5000
FVH	(80°-90°)	317.5	2.8			G3/500
BL	(0°-30°)	451.6	4.0	B1/500		
BM	(30°-60°)	1887.0	16.7	B2/2500		
BH	(60°-80°)	2871.0	25.4	B4/5000		G2/5000
BVH	(80°-90°)	361.3	3.2			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°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8
2.5°	1075.6	1075.6	1072.6	1071.2	1071.2	1070.4	1069.7	1069.7	1069.0	1069.7	1067.5
5°	1077.0	1077.0	1074.1	1072.6	1071.9	1071.2	1071.2	1069.7	1069.0	1069.7	1067.5
7.5°	1077.0	1077.8	1076.3	1074.8	1072.6	1071.9	1071.2	1069.0	1069.0	1067.5	1066.8
10°	1079.9	1082.1	1079.2	1077.0	1074.1	1072.6	1070.4	1069.0	1068.3	1066.8	1066.8
12.5°	1082.1	1084.3	1081.4	1079.2	1076.3	1074.1	1071.2	1069.0	1067.5	1065.3	1066.1
15°	1085.1	1087.3	1084.3	1081.4	1078.5	1075.6	1072.6	1069.7	1067.5	1066.1	1066.1
17.5°	1086.5	1088.7	1085.8	1082.9	1080.7	1079.2	1075.6	1071.2	1068.3	1066.8	1066.8
20°	1088.7	1090.9	1088.7	1087.3	1085.1	1084.3	1080.7	1075.6	1071.9	1069.7	1069.0
22.5°	1093.8	1095.3	1094.6	1094.6	1094.6	1093.8	1090.9	1082.9	1078.5	1074.8	1074.1
25°	1106.2	1105.5	1107.0	1108.4	1109.2	1110.6	1106.2	1097.5	1091.6	1085.8	1085.1
27.5°	1126.7	1127.4	1128.2	1131.1	1134.0	1134.7	1130.4	1120.9	1112.1	1104.1	1103.3
30°	1150.1	1150.1	1153.0	1158.9	1161.8	1164.0	1159.6	1147.9	1136.9	1128.9	1127.4
32.5°	1183.7	1186.6	1188.1	1194.7	1200.5	1202.7	1196.1	1183.7	1171.3	1161.1	1158.9
35°	1231.9	1236.3	1237.8	1243.6	1250.2	1250.9	1245.1	1231.2	1218.0	1204.2	1204.9
37.5°	1299.9	1300.6	1304.3	1305.7	1318.1	1318.1	1308.6	1296.2	1283.1	1270.7	1267.0
40°	1390.5	1391.2	1392.7	1390.5	1405.1	1409.5	1397.1	1378.1	1365.6	1349.6	1347.4
42.5°	1489.1	1496.4	1495.7	1492.0	1506.7	1516.2	1500.8	1478.9	1465.7	1448.9	1446.0
45°	1611.2	1609.7	1603.1	1611.2	1628.0	1638.2	1619.2	1591.4	1577.5	1556.3	1555.6
47.5°	1729.5	1728.1	1717.8	1723.7	1755.1	1771.9	1744.1	1712.7	1694.4	1682.0	1672.5
50°	1842.0	1852.3	1839.1	1851.5	1892.5	1915.1	1889.5	1839.9	1817.9	1798.9	1793.8
52.5°	1974.3	1980.1	1968.5	1988.2	2033.5	2066.4	2031.3	1967.0	1945.1	1923.9	1917.3
55°	2109.5	2106.6	2100.7	2122.6	2178.2	2216.9	2178.9	2101.4	2069.3	2053.2	2053.2
57.5°	2242.5	2243.9	2230.0	2256.3	2326.5	2377.6	2330.1	2235.2	2195.7	2177.4	2183.3
60°	2384.9	2384.9	2363.8	2387.9	2485.8	2550.8	2479.2	2370.3	2327.2	2316.3	2317.0
62.5°	2545.0	2539.1	2515.7	2545.7	2664.8	2751.0	2661.1	2525.2	2469.0	2469.0	2474.1
65°	2729.8	2720.3	2712.3	2746.6	2900.8	3006.0	2887.6	2715.9	2666.3	2660.4	2669.9
67.5°	2995.8	3006.0	2985.6	3030.9	3241.3	3378.7	3198.9	2977.5	2924.9	2919.8	2943.2
70°	3235.5	3225.2	3251.5	3379.4	3665.8	3857.3	3607.4	3266.9	3116.4	3085.7	3095.2
72°	3033.8	3041.8	3086.4	3308.5	3733.0	4014.4	3689.9	3226.7	3006.0	2973.9	2973.1
72.5°	2987.0	2992.9	3030.9	3244.2	3684.8	3972.7	3648.3	3175.5	2967.3	2939.5	2938.1
75°	2741.5	2753.2	2813.1	3020.6	3467.8	3738.9	3434.2	2992.1	2763.4	2710.8	2721.8
77.5°	2335.3	2359.4	2420.0	2658.9	3183.6	3486.8	3160.9	2652.4	2395.9	2357.2	2344.8
80°	1713.4	1681.3	1790.9	2002.8	2376.2	2793.4	2410.5	1998.4	1732.4	1661.6	1679.1
82.5°	583.1	597.0	770.1	1028.1	1304.3	1630.9	1384.6	1001.0	737.3	648.1	608.7
85°	70.9	76.7	119.8	218.5	410.6	593.3	419.4	222.1	138.1	84.8	74.5
87.5°	34.3	36.5	51.1	54.8	68.0	57.7	68.7	43.8	41.6	25.6	21.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8	1066.8
2.5°	1066.8	1065.3	1064.6	1063.1	1061.7	1061.7	1061.7	1061.7	1061.7	1062.4
5°	1066.8	1065.3	1064.6	1062.4	1060.9	1060.9	1060.2	1060.9	1060.2	1060.9
7.5°	1066.8	1064.6	1062.4	1060.2	1058.8	1059.5	1058.0	1057.3	1058.0	1058.0
10°	1066.1	1062.4	1059.5	1057.3	1056.6	1055.8	1055.8	1055.1	1056.6	1055.8
12.5°	1065.3	1060.9	1057.3	1054.4	1053.6	1053.6	1053.6	1053.6	1055.8	1055.1
15°	1064.6	1060.2	1056.6	1052.9	1052.2	1053.6	1053.6	1055.1	1056.6	1056.6
17.5°	1065.3	1060.2	1055.8	1052.9	1052.9	1054.4	1055.1	1057.3	1059.5	1058.0
20°	1068.3	1062.4	1058.8	1055.8	1057.3	1058.8	1058.8	1060.2	1062.4	1060.9
22.5°	1072.6	1068.3	1065.3	1064.6	1066.8	1067.5	1066.8	1066.1	1066.8	1065.3
25°	1082.9	1078.5	1076.3	1079.2	1081.4	1080.7	1077.8	1074.8	1073.4	1072.6
27.5°	1101.9	1098.2	1097.5	1101.1	1103.3	1099.7	1094.6	1090.2	1088.7	1086.5
30°	1125.2	1123.1	1125.2	1128.9	1129.6	1123.8	1116.5	1109.9	1107.7	1107.7
32.5°	1155.9	1153.7	1158.9	1164.7	1166.2	1158.1	1146.4	1137.7	1131.8	1131.1
35°	1200.5	1199.0	1200.5	1207.8	1207.1	1199.0	1185.9	1175.7	1169.8	1169.8
37.5°	1262.6	1261.2	1257.5	1264.8	1264.1	1253.1	1239.2	1230.5	1223.9	1224.6
40°	1343.7	1341.5	1337.1	1338.6	1344.5	1329.8	1312.3	1300.6	1299.9	1299.9
42.5°	1440.9	1430.7	1432.1	1440.9	1436.5	1419.0	1402.9	1392.7	1392.7	1391.9
45°	1546.9	1543.2	1541.7	1544.7	1548.3	1534.4	1507.4	1495.7	1495.0	1495.0
47.5°	1669.6	1651.3	1655.0	1662.3	1671.1	1653.5	1619.2	1605.3	1603.1	1603.8
50°	1789.4	1770.4	1774.1	1789.4	1806.2	1778.5	1736.1	1719.3	1716.4	1717.8
52.5°	1913.7	1897.6	1897.6	1923.2	1945.1	1910.7	1857.4	1836.9	1836.9	1836.2
55°	2045.2	2023.3	2032.0	2064.9	2091.2	2049.6	1983.8	1967.7	1955.3	1960.4
57.5°	2176.0	2154.0	2161.4	2211.8	2244.6	2195.0	2112.4	2078.8	2071.5	2070.0
60°	2309.7	2284.8	2293.6	2372.5	2411.2	2345.5	2224.2	2183.3	2176.7	2176.0
62.5°	2458.0	2440.5	2453.6	2545.0	2589.5	2496.0	2343.3	2296.5	2298.7	2293.6
65°	2642.9	2629.0	2651.6	2763.4	2818.2	2680.9	2497.5	2443.4	2450.0	2449.2
67.5°	2907.4	2890.6	2904.5	3060.8	3109.8	2933.7	2711.6	2658.2	2668.4	2685.2
70°	3073.2	3085.7	3210.6	3429.8	3564.3	3384.5	3090.8	2990.7	2995.8	2998.0
72°	2969.5	3000.9	3186.5	3513.8	3783.5	3527.7	3128.0	2950.5	2924.2	2927.1
72.5°	2941.7	2965.8	3152.2	3478.8	3765.2	3497.0	3087.9	2919.8	2877.4	2878.9
75°	2732.7	2778.8	2957.8	3297.6	3604.4	3342.9	2933.0	2753.9	2721.1	2721.1
77.5°	2372.5	2436.8	2620.2	3097.4	3465.6	3180.7	2736.4	2515.0	2481.4	2469.0
80°	1745.6	1839.9	2020.3	2491.6	2889.1	2629.0	2252.7	2024.7	1972.1	1953.1
82.5°	687.6	768.7	1071.9	1500.8	1904.2	1620.6	1225.4	1022.2	859.3	841.7
85°	85.5	138.1	270.4	494.7	756.3	537.8	320.8	168.1	90.6	76.0
87.5°	24.8	46.8	51.1	83.3	98.6	90.6	57.0	51.1	28.5	24.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)