

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: P177354

Luminaire Tested: **VAL-F04-LED-E-U-WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177354
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-F04-LED-E-U-WQ-7050
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10477 lumens
Efficiency: N/A
Efficacy: 102.5 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): 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



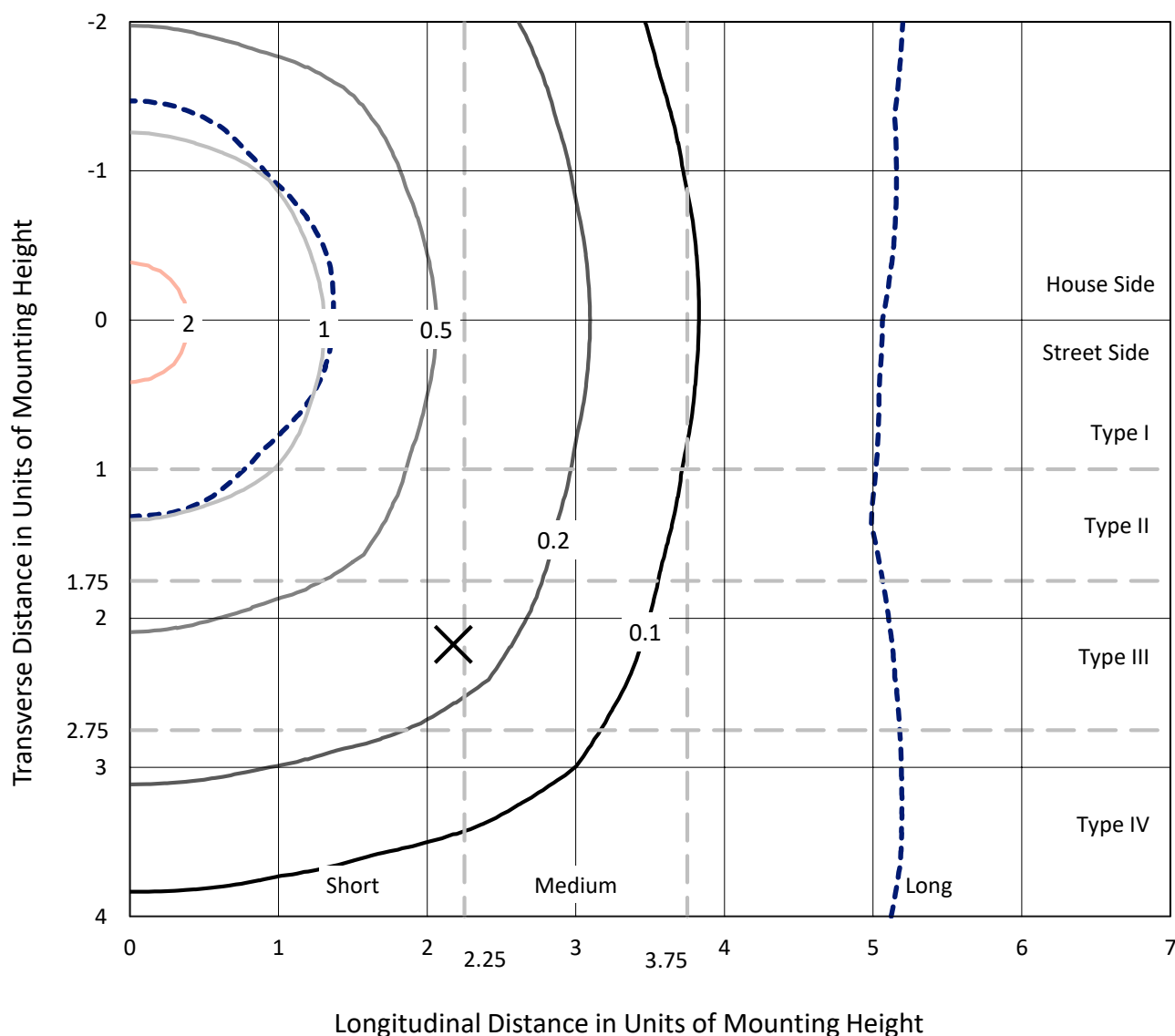
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

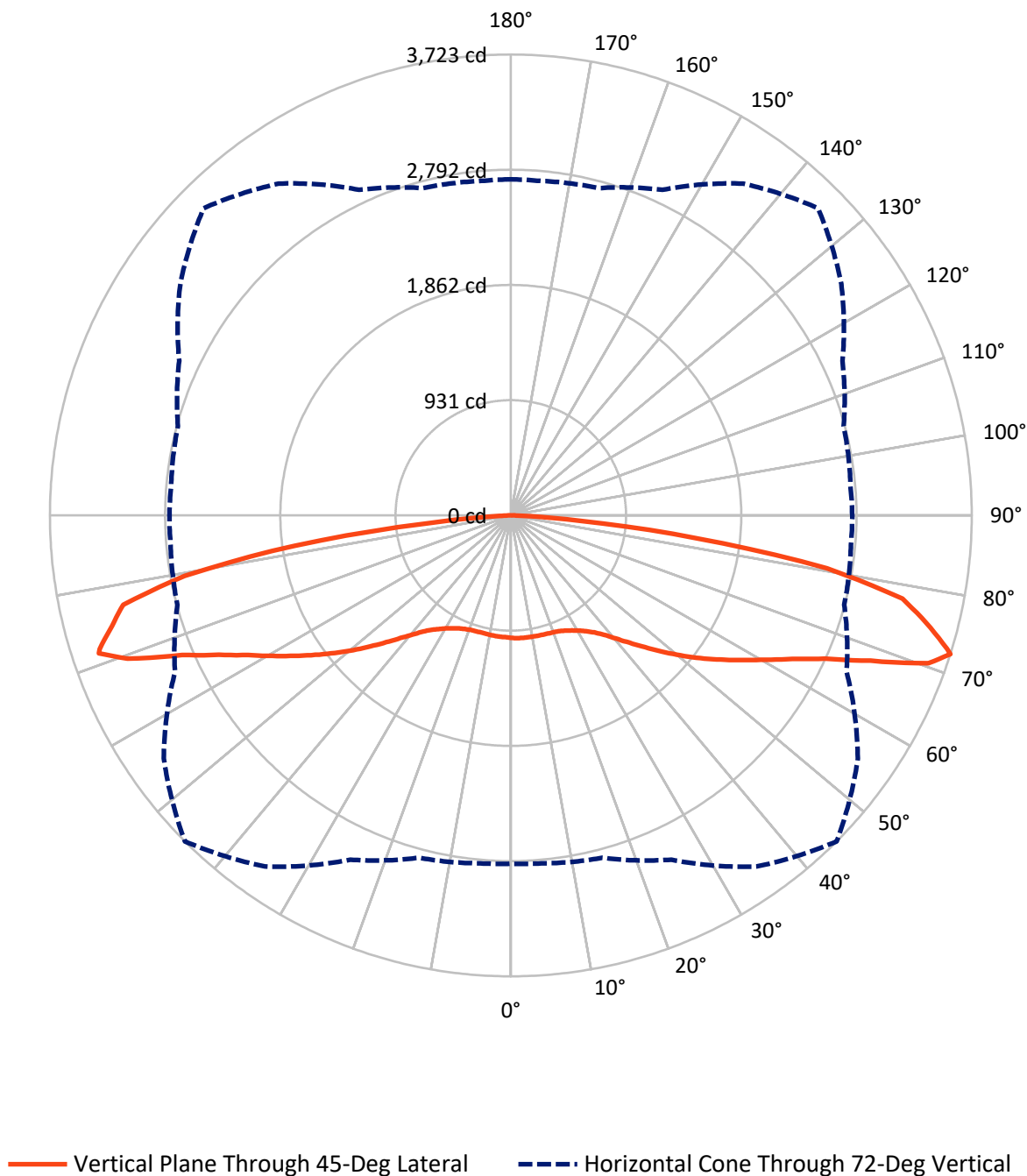


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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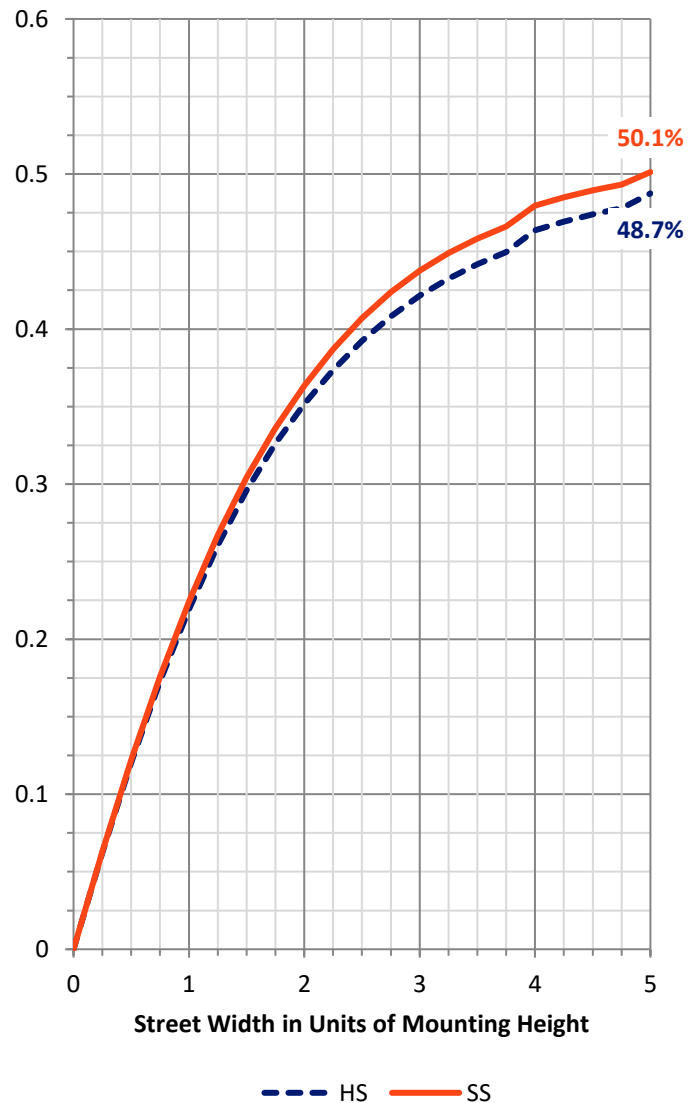
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5166.7	0.0	5166.7
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	5310.3	0.0	5310.3
	% Fixture	50.7	0.0	50.7
Total	Lumens	10477.0	0.0	10477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	0.9
10°-20°	280.5	2.7
20°-30°	471.2	4.5
30°-40°	717.2	6.8
40°-50°	1133.7	10.8
50°-60°	1731.6	16.5
60°-70°	2536.8	24.2
70°-80°	2882.0	27.5
80°-90°	629.5	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°	10477.0	100.0
0°-180°	10477.0	100.0

Coefficient of Utilization



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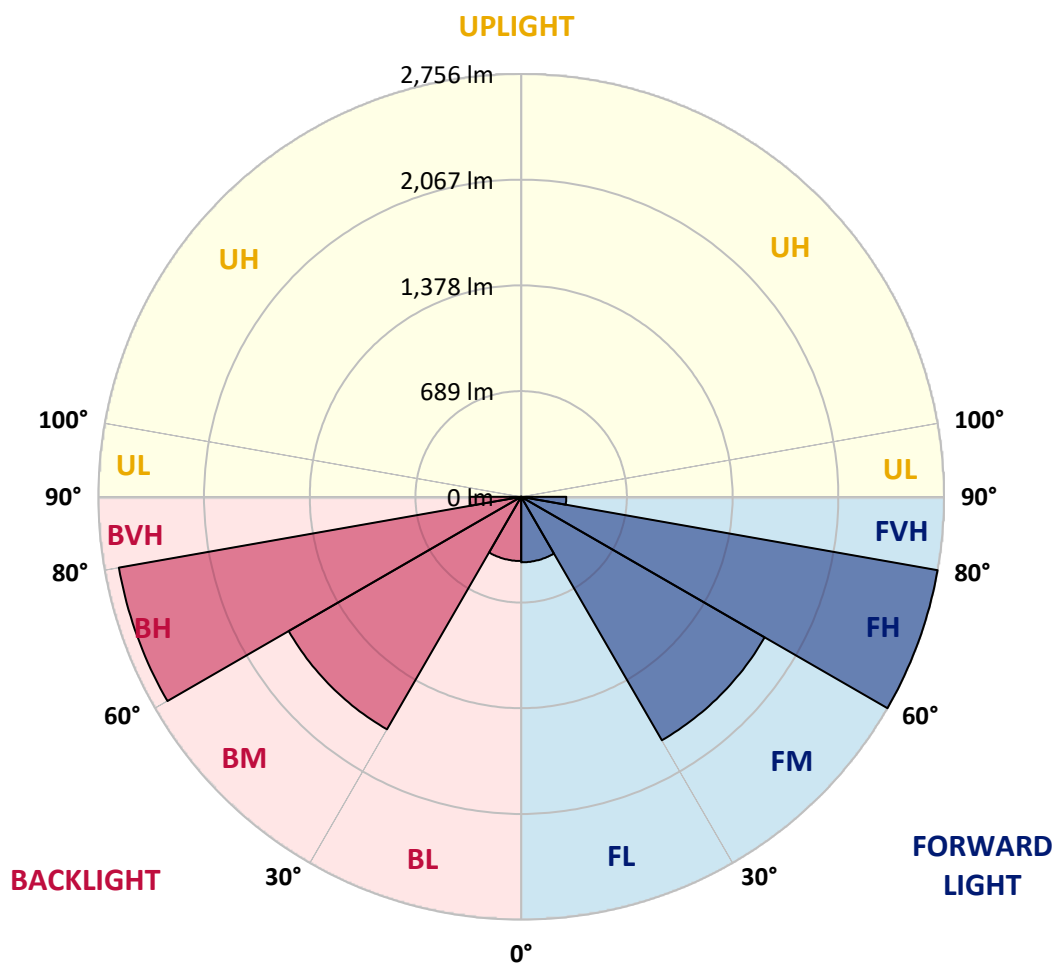
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	427.3	4.1			
FM	(30°-60°)	1832.4	17.5			
FH	(60°-80°)	2756.2	26.3			G2/5000
FVH	(80°-90°)	294.4	2.8			G3/500
BL	(0°-30°)	418.9	4.0	B1/500		
BM	(30°-60°)	1750.1	16.7	B2/2500		
BH	(60°-80°)	2662.7	25.4	B4/5000		G2/5000
BVH	(80°-90°)	335.1	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°	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4
2.5°	997.5	997.5	994.8	993.5	993.5	992.8	992.1	992.1	991.4	992.1	990.1
5°	998.9	998.9	996.2	994.8	994.1	993.5	993.5	992.1	991.4	992.1	990.1
7.5°	998.9	999.5	998.2	996.8	994.8	994.1	993.5	991.4	991.4	990.1	989.4
10°	1001.6	1003.6	1000.9	998.9	996.2	994.8	992.8	991.4	990.7	989.4	989.4
12.5°	1003.6	1005.6	1002.9	1000.9	998.2	996.2	993.5	991.4	990.1	988.0	988.7
15°	1006.3	1008.4	1005.6	1002.9	1000.2	997.5	994.8	992.1	990.1	988.7	988.7
17.5°	1007.7	1009.7	1007.0	1004.3	1002.3	1000.9	997.5	993.5	990.7	989.4	989.4
20°	1009.7	1011.7	1009.7	1008.4	1006.3	1005.6	1002.3	997.5	994.1	992.1	991.4
22.5°	1014.5	1015.8	1015.1	1015.1	1015.1	1014.5	1011.7	1004.3	1000.2	996.8	996.2
25°	1026.0	1025.3	1026.7	1028.0	1028.7	1030.0	1026.0	1017.8	1012.4	1007.0	1006.3
27.5°	1045.0	1045.6	1046.3	1049.0	1051.7	1052.4	1048.3	1039.5	1031.4	1023.9	1023.3
30°	1066.6	1066.6	1069.3	1074.8	1077.5	1079.5	1075.4	1064.6	1054.4	1047.0	1045.6
32.5°	1097.8	1100.5	1101.9	1108.0	1113.4	1115.4	1109.3	1097.8	1086.3	1076.8	1074.8
35°	1142.5	1146.6	1148.0	1153.4	1159.5	1160.2	1154.7	1141.9	1129.7	1116.8	1117.5
37.5°	1205.6	1206.2	1209.6	1211.0	1222.5	1222.5	1213.7	1202.2	1190.0	1178.5	1175.1
40°	1289.6	1290.3	1291.6	1289.6	1303.1	1307.2	1295.7	1278.1	1266.5	1251.6	1249.6
42.5°	1381.1	1387.8	1387.2	1383.8	1397.3	1406.1	1391.9	1371.6	1359.4	1343.8	1341.1
45°	1494.2	1492.9	1486.8	1494.2	1509.8	1519.3	1501.7	1475.9	1463.1	1443.4	1442.7
47.5°	1604.0	1602.7	1593.2	1598.6	1627.7	1643.3	1617.6	1588.4	1571.5	1560.0	1551.2
50°	1708.4	1717.9	1705.7	1717.2	1755.1	1776.1	1752.4	1706.3	1686.0	1668.4	1663.7
52.5°	1831.0	1836.5	1825.6	1843.9	1885.9	1916.4	1883.9	1824.3	1803.9	1784.3	1778.2
55°	1956.4	1953.7	1948.3	1968.6	2020.1	2056.0	2020.8	1949.0	1919.1	1904.2	1904.2
57.5°	2079.7	2081.1	2068.2	2092.6	2157.7	2205.1	2161.1	2073.0	2036.4	2019.4	2024.8
60°	2211.9	2211.9	2192.2	2214.6	2305.4	2365.7	2299.3	2198.3	2158.3	2148.2	2148.9
62.5°	2360.3	2354.9	2333.2	2361.0	2471.4	2551.4	2468.0	2342.0	2289.8	2289.8	2294.6
65°	2531.7	2522.9	2515.5	2547.3	2690.3	2787.9	2678.1	2518.9	2472.8	2467.4	2476.2
67.5°	2778.4	2787.9	2768.9	2810.9	3006.1	3133.5	2966.8	2761.5	2712.7	2707.9	2729.6
70°	3000.7	2991.2	3015.6	3134.2	3399.8	3577.4	3345.6	3029.8	2890.2	2861.8	2870.6
72°	2813.6	2821.1	2862.4	3068.4	3462.2	3723.1	3422.2	2992.5	2787.9	2758.1	2757.4
72.5°	2770.3	2775.7	2810.9	3008.8	3417.4	3684.4	3383.6	2945.1	2752.0	2726.2	2724.9
75°	2542.6	2553.4	2609.0	2801.4	3216.2	3467.6	3185.0	2775.0	2562.9	2514.1	2524.3
77.5°	2165.8	2188.2	2244.4	2466.0	2952.6	3233.8	2931.6	2459.9	2222.0	2186.1	2174.6
80°	1589.1	1559.3	1660.9	1857.5	2203.8	2590.7	2235.6	1853.4	1606.7	1541.0	1557.3
82.5°	540.8	553.6	714.3	953.5	1209.6	1512.5	1284.2	928.4	683.8	601.1	564.5
85°	65.7	71.2	111.1	202.6	380.8	550.3	389.0	206.0	128.1	78.6	69.1
87.5°	31.9	33.9	47.4	50.8	63.0	53.5	63.7	40.7	38.6	23.7	19.7
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°	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4
2.5°	989.4	988.0	987.4	986.0	984.6	984.6	984.6	984.6	984.6	985.3
5°	989.4	988.0	987.4	985.3	984.0	984.0	983.3	984.0	983.3	984.0
7.5°	989.4	987.4	985.3	983.3	981.9	982.6	981.3	980.6	981.3	981.3
10°	988.7	985.3	982.6	980.6	979.9	979.2	979.2	978.5	979.9	979.2
12.5°	988.0	984.0	980.6	977.9	977.2	977.2	977.2	977.2	979.2	978.5
15°	987.4	983.3	979.9	976.5	975.8	977.2	977.2	978.5	979.9	979.9
17.5°	988.0	983.3	979.2	976.5	976.5	977.9	978.5	980.6	982.6	981.3
20°	990.7	985.3	981.9	979.2	980.6	981.9	981.9	983.3	985.3	984.0
22.5°	994.8	990.7	988.0	987.4	989.4	990.1	989.4	988.7	989.4	988.0
25°	1004.3	1000.2	998.2	1000.9	1002.9	1002.3	999.5	996.8	995.5	994.8
27.5°	1021.9	1018.5	1017.8	1021.2	1023.3	1019.9	1015.1	1011.1	1009.7	1007.7
30°	1043.6	1041.6	1043.6	1047.0	1047.7	1042.2	1035.5	1029.4	1027.3	1027.3
32.5°	1072.1	1070.0	1074.8	1080.2	1081.5	1074.1	1063.2	1055.1	1049.7	1049.0
35°	1113.4	1112.0	1113.4	1120.2	1119.5	1112.0	1099.8	1090.4	1084.9	1084.9
37.5°	1171.0	1169.6	1166.3	1173.0	1172.4	1162.2	1149.3	1141.2	1135.1	1135.8
40°	1246.2	1244.2	1240.1	1241.5	1246.9	1233.3	1217.1	1206.2	1205.6	1205.6
42.5°	1336.3	1326.9	1328.2	1336.3	1332.3	1316.0	1301.1	1291.6	1291.6	1290.9
45°	1434.6	1431.2	1429.9	1432.6	1436.0	1423.1	1398.0	1387.2	1386.5	1386.5
47.5°	1548.5	1531.5	1534.9	1541.7	1549.8	1533.5	1501.7	1488.8	1486.8	1487.5
50°	1659.6	1642.0	1645.4	1659.6	1675.2	1649.4	1610.1	1594.5	1591.8	1593.2
52.5°	1774.8	1759.9	1759.9	1783.6	1803.9	1772.1	1722.6	1703.6	1703.6	1703.0
55°	1896.8	1876.4	1884.6	1915.1	1939.5	1900.8	1839.8	1824.9	1813.4	1818.2
57.5°	2018.1	1997.7	2004.5	2051.3	2081.8	2035.7	1959.1	1927.9	1921.2	1919.8
60°	2142.1	2119.0	2127.2	2200.4	2236.3	2175.3	2062.8	2024.8	2018.8	2018.1
62.5°	2279.6	2263.4	2275.6	2360.3	2401.6	2314.9	2173.3	2129.9	2131.9	2127.2
65°	2451.1	2438.2	2459.2	2562.9	2613.7	2486.3	2316.2	2266.1	2272.2	2271.5
67.5°	2696.4	2680.8	2693.7	2838.7	2884.1	2720.8	2514.8	2465.3	2474.8	2490.4
70°	2850.2	2861.8	2977.6	3180.9	3305.6	3138.9	2866.5	2773.7	2778.4	2780.4
72°	2754.0	2783.2	2955.3	3258.9	3508.9	3271.7	2901.1	2736.4	2712.0	2714.7
72.5°	2728.3	2750.6	2923.4	3226.3	3492.0	3243.3	2863.8	2707.9	2668.6	2670.0
75°	2534.5	2577.1	2743.2	3058.3	3342.9	3100.3	2720.1	2554.1	2523.6	2523.6
77.5°	2200.4	2260.0	2430.1	2872.6	3214.1	2949.9	2537.8	2332.5	2301.3	2289.8
80°	1618.9	1706.3	1873.7	2310.8	2679.5	2438.2	2089.2	1877.8	1829.0	1811.4
82.5°	637.7	712.9	994.1	1391.9	1766.0	1503.1	1136.4	948.0	796.9	780.7
85°	79.3	128.1	250.7	458.8	701.4	498.8	297.5	155.9	84.0	70.5
87.5°	23.0	43.4	47.4	77.3	91.5	84.0	52.9	47.4	26.4	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)