

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: P177346

Luminaire Tested: **VAL-E04-LED-E-U-WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177346
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-8030
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10438.8 lumens
Efficiency: N/A
Efficacy: 107.4 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



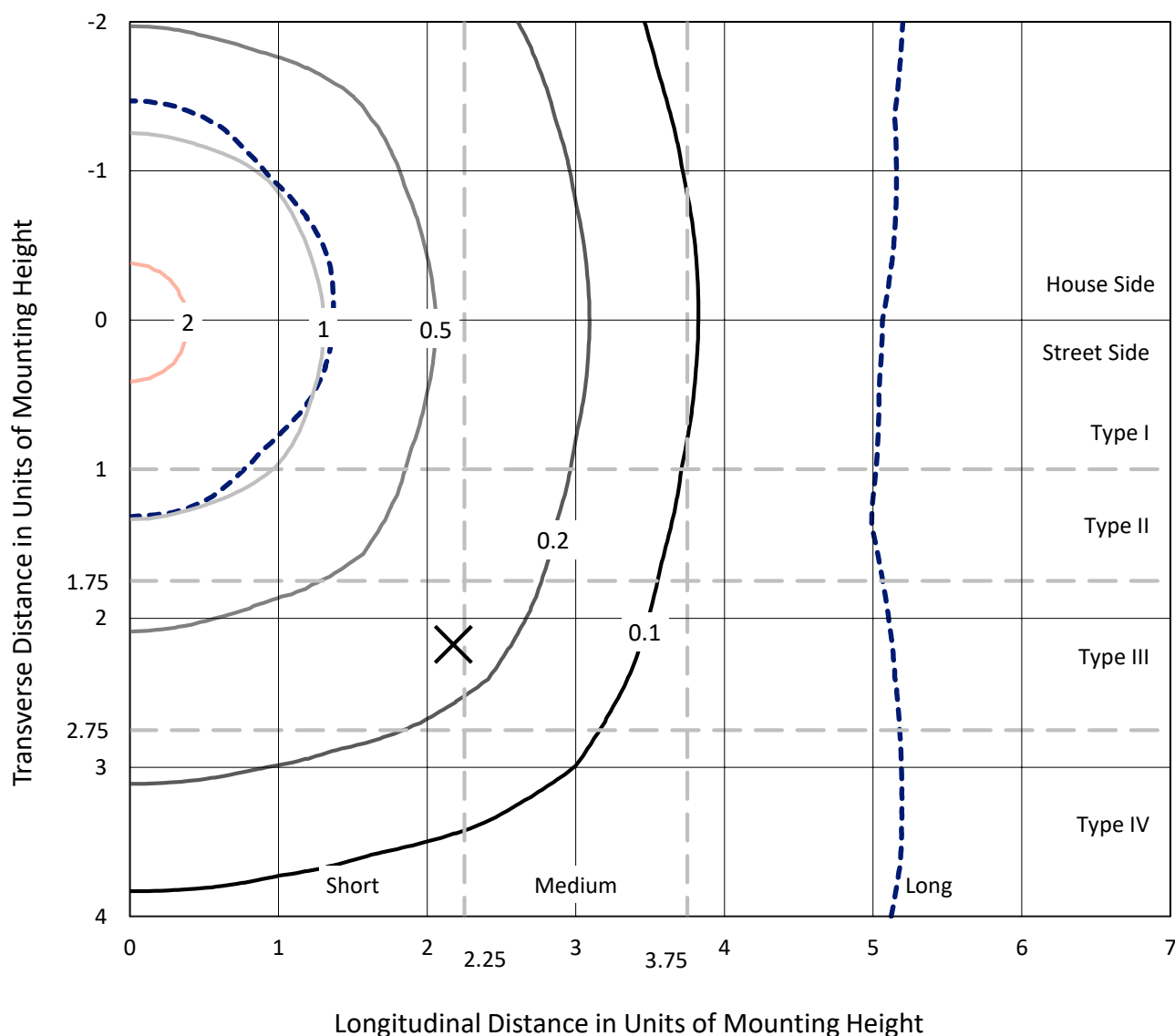
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

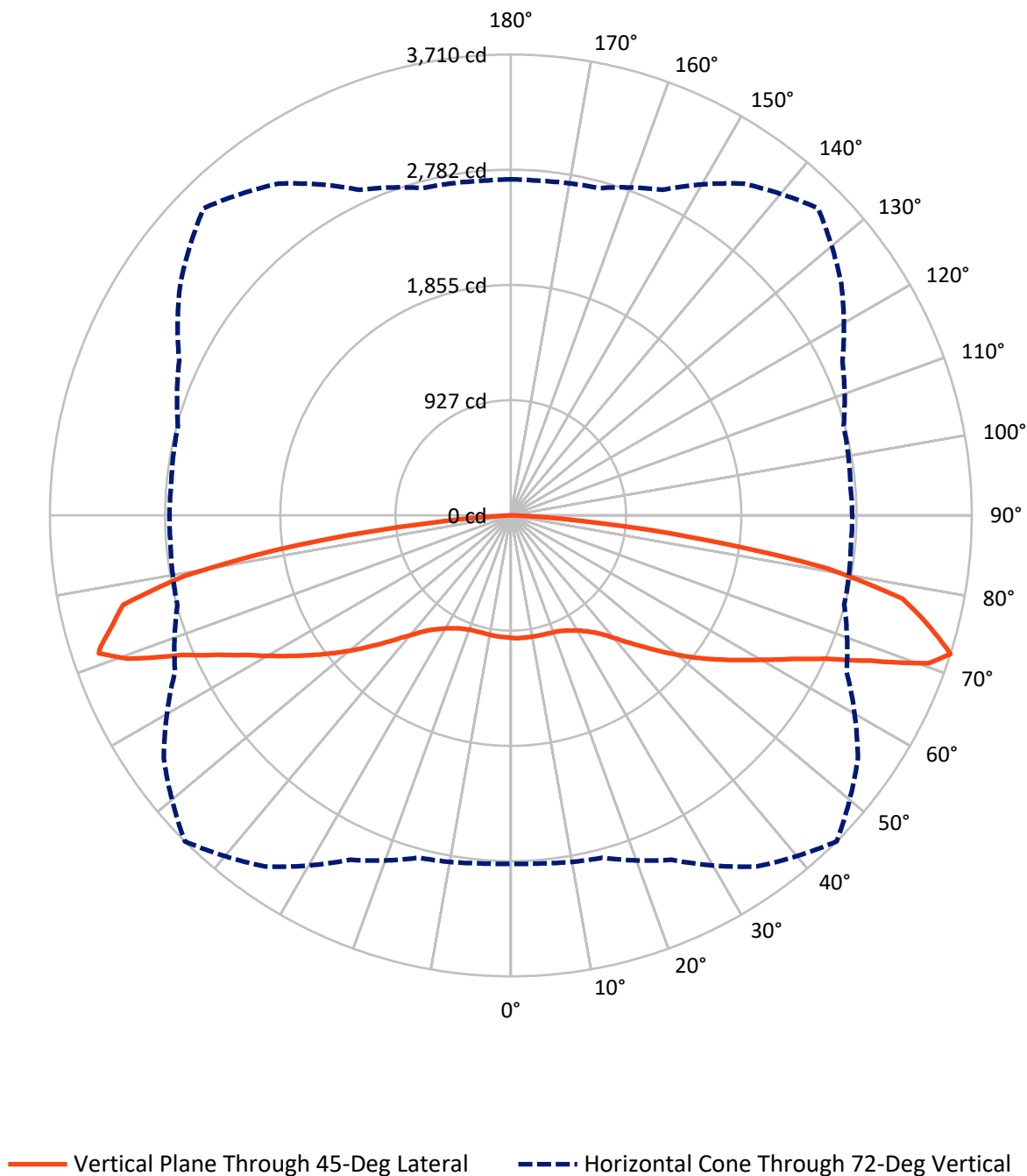


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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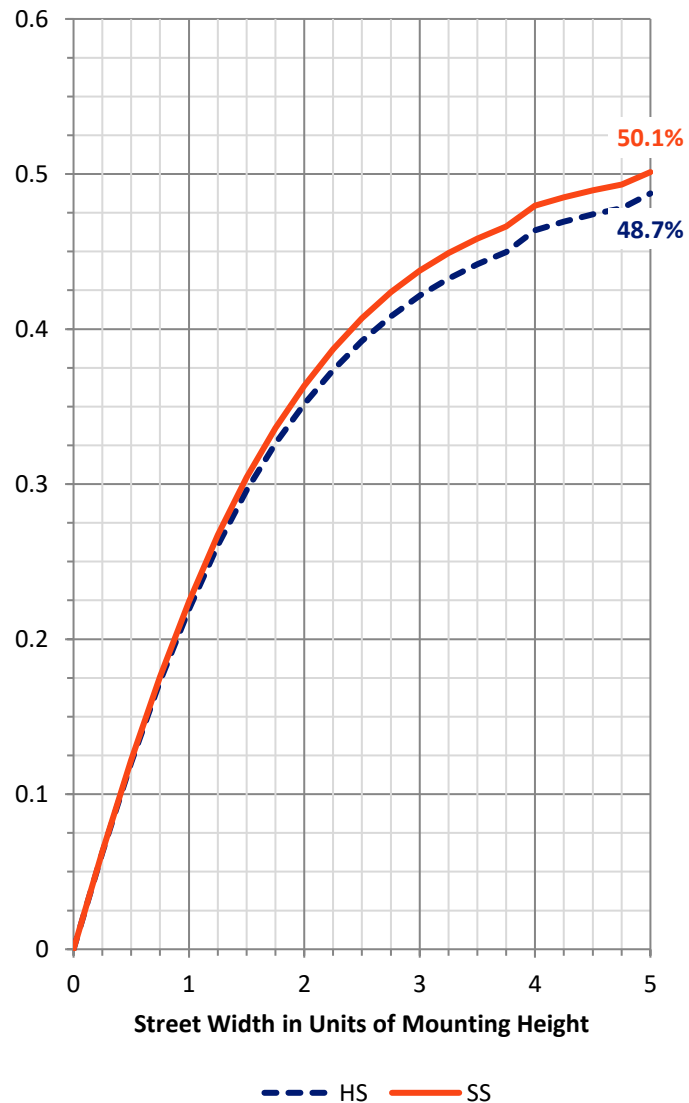
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5147.9	0.0	5147.9
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	5291.0	0.0	5291.0
	% Fixture	50.7	0.0	50.7
Total	Lumens	10438.8	0.0	10438.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	0.9
10°-20°	279.5	2.7
20°-30°	469.5	4.5
30°-40°	714.5	6.8
40°-50°	1129.6	10.8
50°-60°	1725.3	16.5
60°-70°	2527.6	24.2
70°-80°	2871.5	27.5
80°-90°	627.2	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°	10438.8	100.0
0°-180°	10438.8	100.0

Coefficient of Utilization



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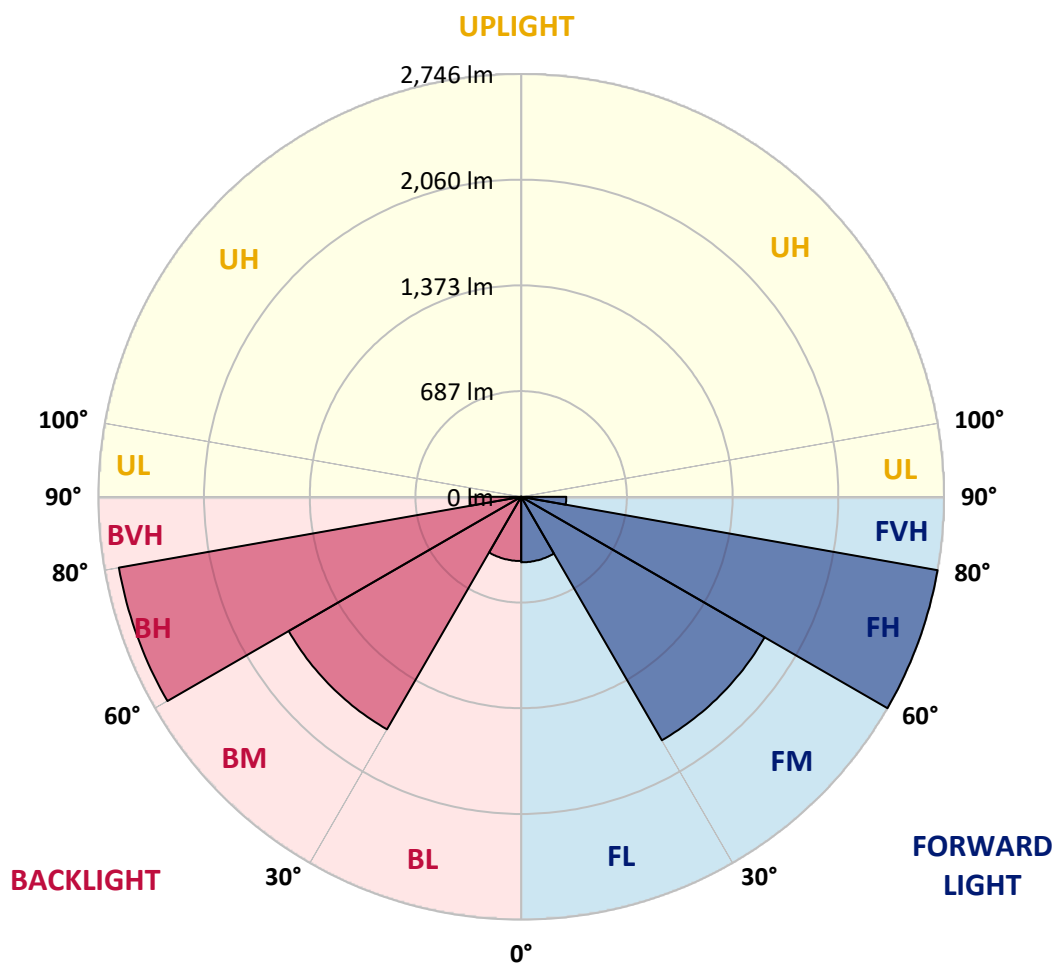
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.7	4.1			
FM	(30°-60°)	1825.7	17.5			
FH	(60°-80°)	2746.2	26.3			G2/5000
FVH	(80°-90°)	293.4	2.8			G3/500
BL	(0°-30°)	417.3	4.0	B1/500		
BM	(30°-60°)	1743.7	16.7	B2/2500		
BH	(60°-80°)	2653.0	25.4	B4/5000		G2/5000
BVH	(80°-90°)	333.9	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°	985.8	985.8	985.8	985.8	985.8	985.8	985.8	985.8	985.8	985.8	985.8
2.5°	993.9	993.9	991.2	989.8	989.8	989.2	988.5	988.5	987.8	988.5	986.5
5°	995.2	995.2	992.5	991.2	990.5	989.8	989.8	988.5	987.8	988.5	986.5
7.5°	995.2	995.9	994.6	993.2	991.2	990.5	989.8	987.8	987.8	986.5	985.8
10°	997.9	1000.0	997.3	995.2	992.5	991.2	989.2	987.8	987.1	985.8	985.8
12.5°	1000.0	1002.0	999.3	997.3	994.6	992.5	989.8	987.8	986.5	984.4	985.1
15°	1002.7	1004.7	1002.0	999.3	996.6	993.9	991.2	988.5	986.5	985.1	985.1
17.5°	1004.0	1006.0	1003.3	1000.6	998.6	997.3	993.9	989.8	987.1	985.8	985.8
20°	1006.0	1008.1	1006.0	1004.7	1002.7	1002.0	998.6	993.9	990.5	988.5	987.8
22.5°	1010.8	1012.1	1011.4	1011.4	1011.4	1010.8	1008.1	1000.6	996.6	993.2	992.5
25°	1022.2	1021.6	1022.9	1024.3	1024.9	1026.3	1022.2	1014.1	1008.7	1003.3	1002.7
27.5°	1041.1	1041.8	1042.5	1045.2	1047.9	1048.6	1044.5	1035.7	1027.6	1020.2	1019.5
30°	1062.8	1062.8	1065.5	1070.9	1073.6	1075.6	1071.5	1060.7	1050.6	1043.2	1041.8
32.5°	1093.8	1096.5	1097.9	1103.9	1109.3	1111.4	1105.3	1093.8	1082.3	1072.9	1070.9
35°	1138.4	1142.4	1143.8	1149.2	1155.3	1155.9	1150.5	1137.7	1125.5	1112.7	1113.4
37.5°	1201.2	1201.8	1205.2	1206.6	1218.0	1218.0	1209.3	1197.8	1185.6	1174.2	1170.8
40°	1284.9	1285.6	1286.9	1284.9	1298.4	1302.4	1291.0	1273.4	1261.9	1247.1	1245.1
42.5°	1376.0	1382.8	1382.1	1378.7	1392.2	1401.0	1386.8	1366.6	1354.4	1338.9	1336.2
45°	1488.8	1487.4	1481.4	1488.8	1504.3	1513.8	1496.2	1470.6	1457.7	1438.2	1437.5
47.5°	1598.2	1596.8	1587.4	1592.8	1621.8	1637.3	1611.7	1582.7	1565.8	1554.3	1545.5
50°	1702.2	1711.6	1699.5	1710.9	1748.7	1769.7	1746.0	1700.1	1679.9	1662.3	1657.6
52.5°	1824.4	1829.8	1819.0	1837.2	1879.1	1909.4	1877.0	1817.6	1797.4	1777.8	1771.7
55°	1949.3	1946.6	1941.2	1961.4	2012.7	2048.5	2013.4	1941.9	1912.1	1897.3	1897.3
57.5°	2072.2	2073.5	2060.7	2085.0	2149.8	2197.1	2153.2	2065.4	2029.0	2012.1	2017.5
60°	2203.8	2203.8	2184.2	2206.5	2297.0	2357.1	2290.9	2190.3	2150.5	2140.4	2141.0
62.5°	2351.7	2346.3	2324.7	2352.4	2462.4	2542.1	2459.1	2333.5	2281.5	2281.5	2286.2
65°	2522.5	2513.7	2506.3	2538.0	2680.5	2777.7	2668.4	2509.7	2463.8	2458.4	2467.2
67.5°	2768.3	2777.7	2758.8	2800.7	2995.2	3122.1	2956.0	2751.4	2702.8	2698.1	2719.7
70°	2989.8	2980.3	3004.6	3122.8	3387.4	3564.3	3333.4	3018.8	2879.7	2851.3	2860.1
72°	2803.4	2810.8	2852.0	3057.3	3449.6	3709.5	3409.7	2981.7	2777.7	2748.0	2747.4
72.5°	2760.2	2765.6	2800.7	2997.9	3405.0	3671.0	3371.2	2934.4	2742.0	2716.3	2715.0
75°	2533.3	2544.1	2599.5	2791.2	3204.5	3455.0	3173.4	2764.9	2553.6	2505.0	2515.1
77.5°	2157.9	2180.2	2236.2	2457.0	2941.8	3222.0	2920.9	2450.9	2214.0	2178.2	2166.7
80°	1583.3	1553.6	1654.9	1850.7	2195.7	2581.3	2227.5	1846.7	1600.9	1535.4	1551.6
82.5°	538.8	551.6	711.7	950.0	1205.2	1507.0	1279.5	925.0	681.3	598.9	562.4
85°	65.5	70.9	110.7	201.9	379.5	548.3	387.6	205.3	127.6	78.3	68.9
87.5°	31.7	33.8	47.3	50.6	62.8	53.3	63.5	40.5	38.5	23.6	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	985.8	985.8	985.8	985.8	985.8	985.8	985.8	985.8	985.8	985.8
2.5°	985.8	984.4	983.8	982.4	981.1	981.1	981.1	981.1	981.1	981.7
5°	985.8	984.4	983.8	981.7	980.4	980.4	979.7	980.4	979.7	980.4
7.5°	985.8	983.8	981.7	979.7	978.4	979.0	977.7	977.0	977.7	977.7
10°	985.1	981.7	979.0	977.0	976.3	975.7	975.7	975.0	976.3	975.7
12.5°	984.4	980.4	977.0	974.3	973.6	973.6	973.6	973.6	975.7	975.0
15°	983.8	979.7	976.3	973.0	972.3	973.6	973.6	975.0	976.3	976.3
17.5°	984.4	979.7	975.7	973.0	973.0	974.3	975.0	977.0	979.0	977.7
20°	987.1	981.7	978.4	975.7	977.0	978.4	978.4	979.7	981.7	980.4
22.5°	991.2	987.1	984.4	983.8	985.8	986.5	985.8	985.1	985.8	984.4
25°	1000.6	996.6	994.6	997.3	999.3	998.6	995.9	993.2	991.9	991.2
27.5°	1018.2	1014.8	1014.1	1017.5	1019.5	1016.2	1011.4	1007.4	1006.0	1004.0
30°	1039.8	1037.8	1039.8	1043.2	1043.8	1038.4	1031.7	1025.6	1023.6	1023.6
32.5°	1068.2	1066.1	1070.9	1076.3	1077.6	1070.2	1059.4	1051.3	1045.9	1045.2
35°	1109.3	1108.0	1109.3	1116.1	1115.4	1108.0	1095.8	1086.4	1081.0	1081.0
37.5°	1166.7	1165.4	1162.0	1168.8	1168.1	1158.0	1145.1	1137.0	1130.9	1131.6
40°	1241.7	1239.7	1235.6	1237.0	1242.4	1228.9	1212.6	1201.8	1201.2	1201.2
42.5°	1331.5	1322.0	1323.4	1331.5	1327.4	1311.2	1296.4	1286.9	1286.9	1286.2
45°	1429.4	1426.0	1424.7	1427.4	1430.7	1417.9	1392.9	1382.1	1381.4	1381.4
47.5°	1542.8	1525.9	1529.3	1536.1	1544.2	1528.0	1496.2	1483.4	1481.4	1482.0
50°	1653.5	1636.0	1639.4	1653.5	1669.1	1643.4	1604.3	1588.7	1586.0	1587.4
52.5°	1768.3	1753.5	1753.5	1777.1	1797.4	1765.6	1716.3	1697.4	1697.4	1696.8
55°	1889.9	1869.6	1877.7	1908.1	1932.4	1893.9	1833.1	1818.3	1806.8	1811.5
57.5°	2010.7	1990.5	1997.2	2043.8	2074.2	2028.3	1952.0	1920.9	1914.2	1912.8
60°	2134.3	2111.3	2119.4	2192.4	2228.1	2167.4	2055.3	2017.5	2011.4	2010.7
62.5°	2271.3	2255.1	2267.3	2351.7	2392.9	2306.5	2165.3	2122.1	2124.2	2119.4
65°	2442.2	2429.3	2450.3	2553.6	2604.2	2477.3	2307.8	2257.8	2263.9	2263.2
67.5°	2686.6	2671.1	2683.9	2828.4	2873.6	2710.9	2505.6	2456.4	2465.8	2481.3
70°	2839.9	2851.3	2966.8	3169.4	3293.6	3127.5	2856.1	2763.6	2768.3	2770.3
72°	2744.0	2773.0	2944.5	3247.0	3496.1	3259.8	2890.5	2726.4	2702.1	2704.8
72.5°	2718.3	2740.6	2912.8	3214.6	3479.3	3231.5	2853.4	2698.1	2658.9	2660.3
75°	2525.2	2567.8	2733.2	3047.1	3330.7	3089.0	2710.2	2544.8	2514.4	2514.4
77.5°	2192.4	2251.8	2421.2	2862.1	3202.4	2939.1	2528.6	2324.0	2293.0	2281.5
80°	1613.0	1700.1	1866.9	2302.4	2669.7	2429.3	2081.6	1871.0	1822.3	1804.8
82.5°	635.4	710.3	990.5	1386.8	1759.6	1497.6	1132.3	944.6	794.0	777.8
85°	79.0	127.6	249.8	457.1	698.8	496.9	296.4	155.3	83.7	70.2
87.5°	23.0	43.2	47.3	77.0	91.2	83.7	52.7	47.3	26.3	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)