

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: P177351

Luminaire Tested: **VAL-F04-LED-E-U-WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177351
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-8030
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8617.5 lumens
Efficiency: N/A
Efficacy: 84.3 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: B3 - 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



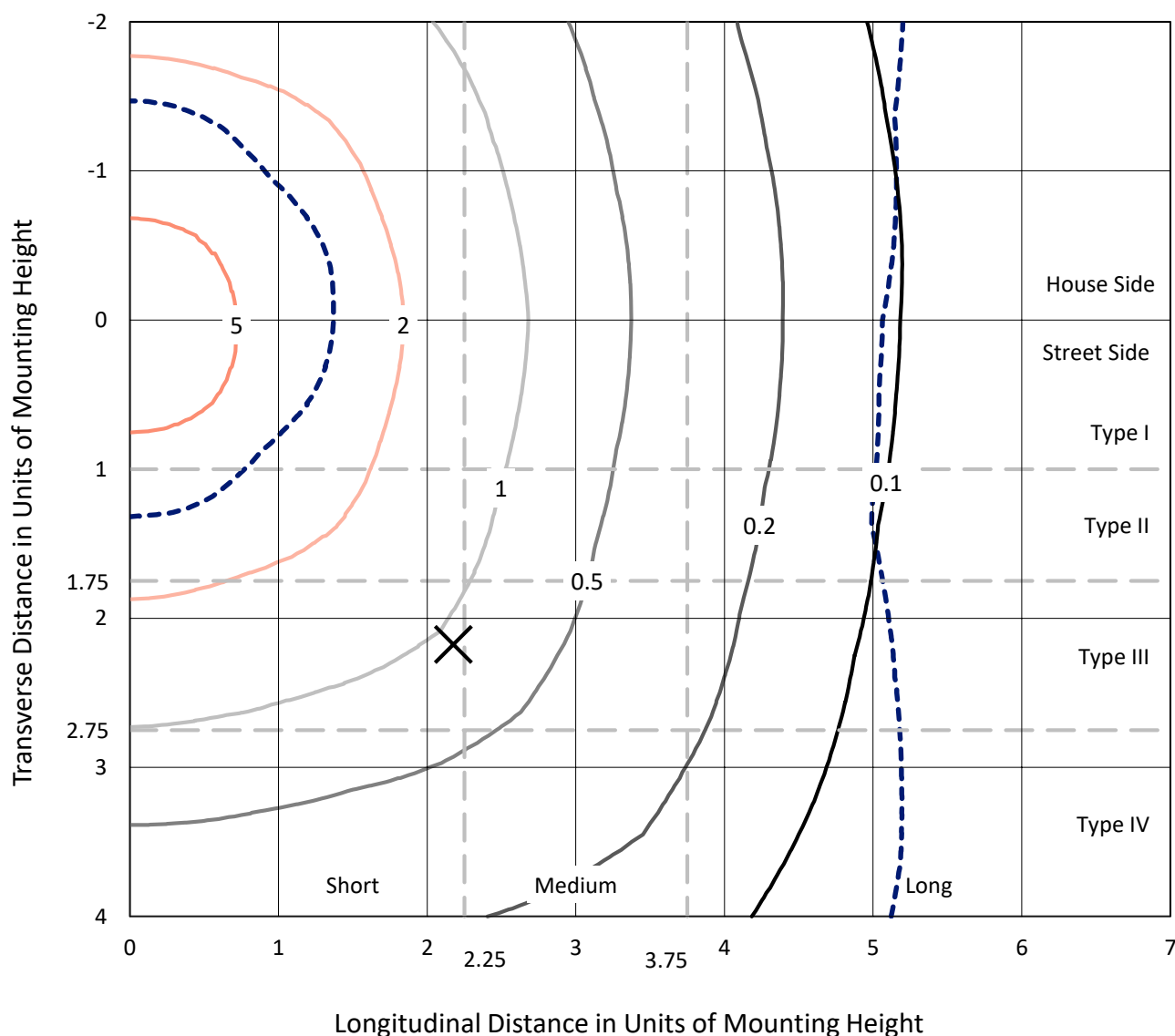
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

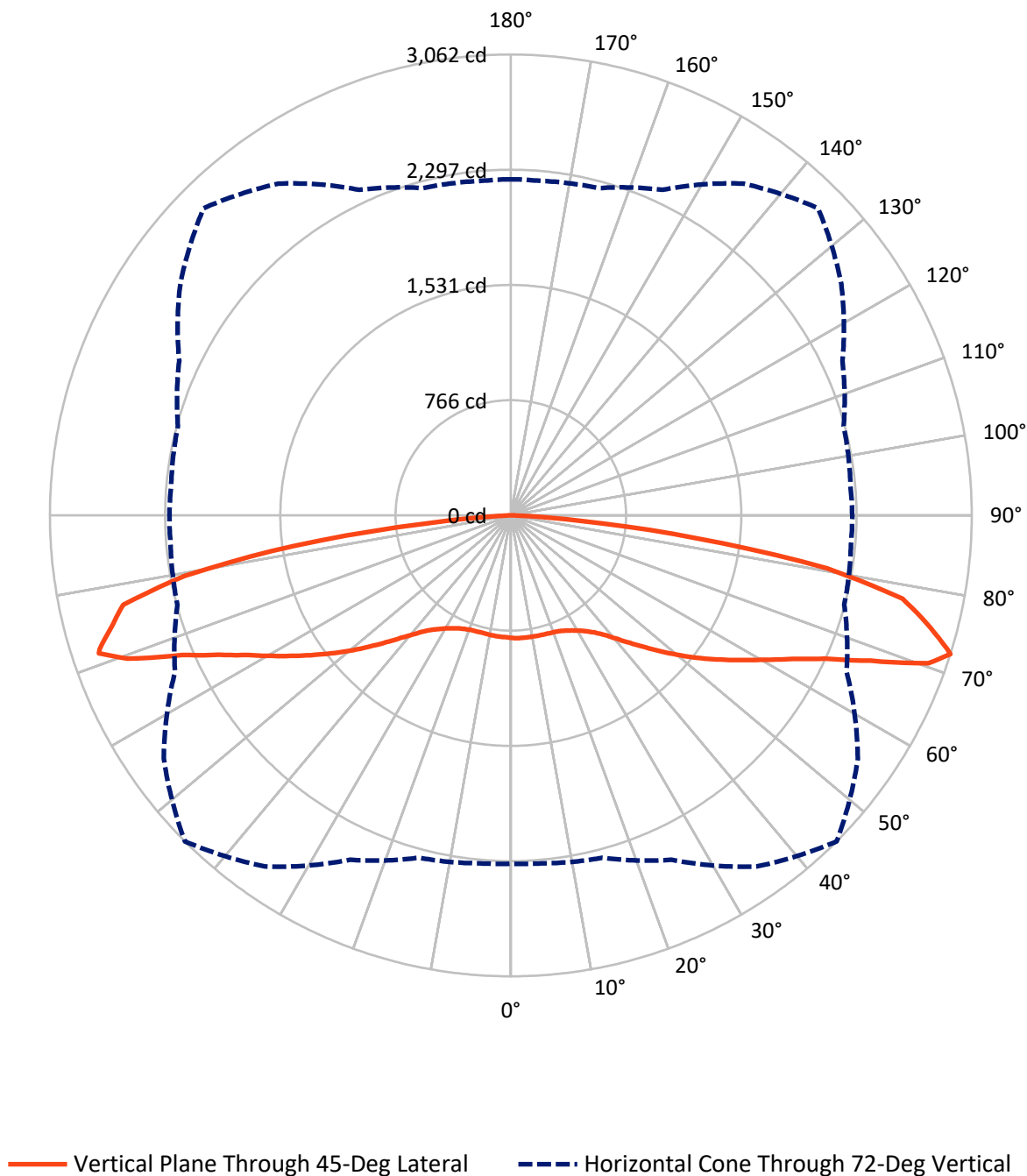


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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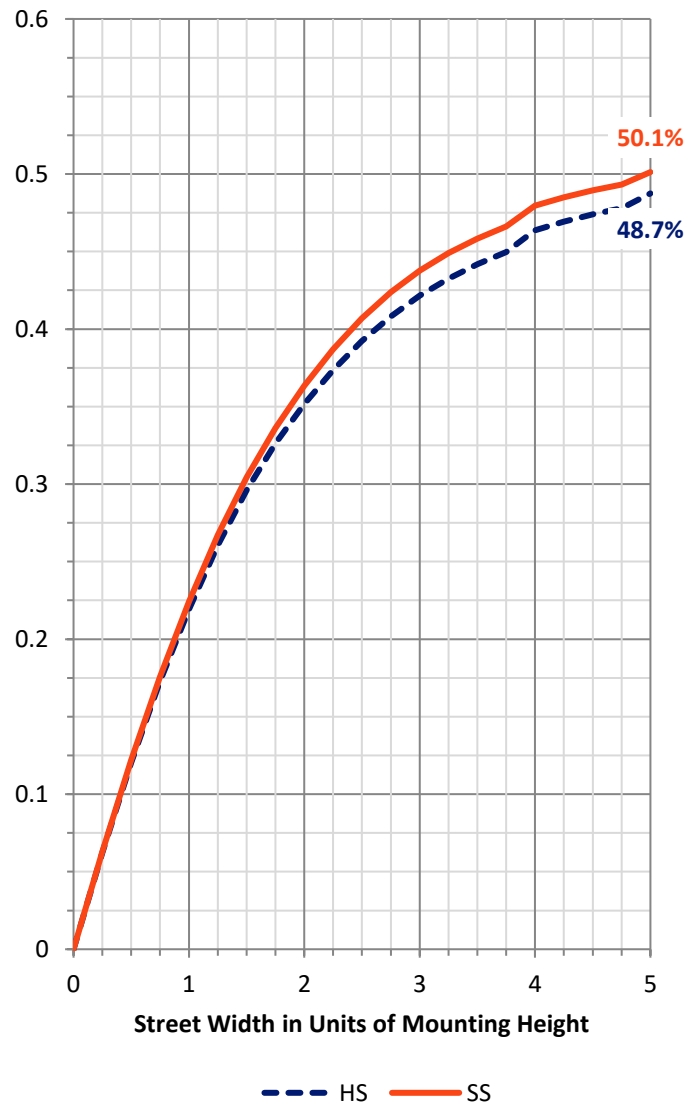
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4249.7	0.0	4249.7
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	4367.8	0.0	4367.8
	% Fixture	50.7	0.0	50.7
Total	Lumens	8617.5	0.0	8617.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	0.9
10°-20°	230.7	2.7
20°-30°	387.6	4.5
30°-40°	589.9	6.8
40°-50°	932.5	10.8
50°-60°	1424.3	16.5
60°-70°	2086.6	24.2
70°-80°	2370.5	27.5
80°-90°	517.8	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°	8617.5	100.0
0°-180°	8617.5	100.0

Coefficient of Utilization



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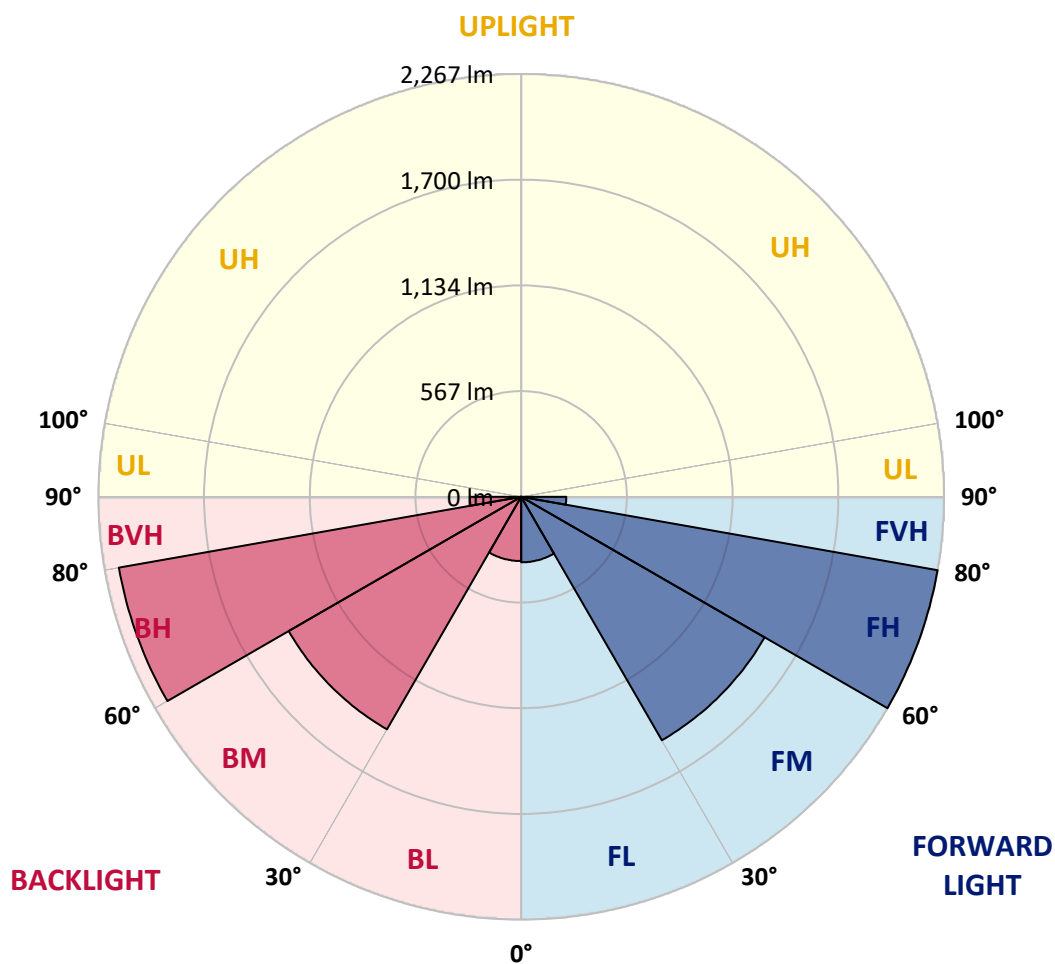
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.4	4.1			
FM	(30°-60°)	1507.2	17.5			
FH	(60°-80°)	2267.0	26.3			G2/5000
FVH	(80°-90°)	242.2	2.8			G3/500
BL	(0°-30°)	344.5	4.0	B1/500		
BM	(30°-60°)	1439.5	16.7	B2/2500		
BH	(60°-80°)	2190.1	25.4	B3/2500		G2/5000
BVH	(80°-90°)	275.6	3.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	820.5	820.5	818.2	817.1	817.1	816.6	816.0	816.0	815.5	816.0	814.3
5°	821.6	821.6	819.4	818.2	817.7	817.1	817.1	816.0	815.5	816.0	814.3
7.5°	821.6	822.1	821.0	819.9	818.2	817.7	817.1	815.5	815.5	814.3	813.8
10°	823.8	825.5	823.3	821.6	819.4	818.2	816.6	815.5	814.9	813.8	813.8
12.5°	825.5	827.2	824.9	823.3	821.0	819.4	817.1	815.5	814.3	812.7	813.2
15°	827.7	829.4	827.2	824.9	822.7	820.5	818.2	816.0	814.3	813.2	813.2
17.5°	828.8	830.5	828.3	826.0	824.4	823.3	820.5	817.1	814.9	813.8	813.8
20°	830.5	832.2	830.5	829.4	827.7	827.2	824.4	820.5	817.7	816.0	815.5
22.5°	834.4	835.5	835.0	835.0	835.0	834.4	832.2	826.0	822.7	819.9	819.4
25°	843.9	843.3	844.4	845.6	846.1	847.2	843.9	837.2	832.7	828.3	827.7
27.5°	859.5	860.1	860.6	862.8	865.1	865.6	862.3	855.0	848.3	842.2	841.7
30°	877.3	877.3	879.6	884.0	886.2	887.9	884.6	875.7	867.3	861.2	860.1
32.5°	903.0	905.2	906.3	911.3	915.8	917.5	912.4	903.0	893.5	885.7	884.0
35°	939.8	943.1	944.2	948.7	953.7	954.2	949.8	939.2	929.2	918.6	919.1
37.5°	991.6	992.2	994.9	996.1	1005.5	1005.5	998.3	988.8	978.8	969.3	966.5
40°	1060.7	1061.3	1062.4	1060.7	1071.9	1075.2	1065.7	1051.2	1041.8	1029.5	1027.8
42.5°	1136.0	1141.5	1141.0	1138.2	1149.3	1156.6	1144.9	1128.2	1118.1	1105.3	1103.1
45°	1229.0	1227.9	1222.9	1229.0	1241.9	1249.7	1235.2	1214.0	1203.4	1187.2	1186.7
47.5°	1319.3	1318.2	1310.4	1314.9	1338.8	1351.7	1330.5	1306.5	1292.6	1283.1	1275.9
50°	1405.2	1413.0	1402.9	1412.4	1443.6	1460.9	1441.4	1403.5	1386.8	1372.3	1368.4
52.5°	1506.1	1510.5	1501.6	1516.7	1551.2	1576.3	1549.5	1500.5	1483.8	1467.6	1462.6
55°	1609.2	1607.0	1602.5	1619.2	1661.6	1691.1	1662.1	1603.0	1578.5	1566.3	1566.3
57.5°	1710.6	1711.7	1701.1	1721.2	1774.7	1813.7	1777.5	1705.1	1675.0	1661.0	1665.5
60°	1819.3	1819.3	1803.2	1821.5	1896.2	1945.8	1891.2	1808.2	1775.3	1766.9	1767.5
62.5°	1941.4	1936.9	1919.1	1941.9	2032.8	2098.6	2030.0	1926.3	1883.4	1883.4	1887.3
65°	2082.4	2075.2	2069.0	2095.2	2212.8	2293.1	2202.8	2071.8	2033.9	2029.5	2036.7
67.5°	2285.3	2293.1	2277.5	2312.0	2472.6	2577.4	2440.2	2271.4	2231.2	2227.3	2245.2
70°	2468.1	2460.3	2480.4	2577.9	2796.4	2942.5	2751.8	2492.1	2377.3	2353.9	2361.1
72°	2314.3	2320.4	2354.4	2523.9	2847.7	3062.3	2814.8	2461.4	2293.1	2268.6	2268.0
72.5°	2278.6	2283.1	2312.0	2474.8	2810.9	3030.5	2783.0	2422.4	2263.6	2242.4	2241.3
75°	2091.3	2100.2	2145.9	2304.2	2645.4	2852.2	2619.7	2282.5	2108.0	2067.9	2076.3
77.5°	1781.4	1799.8	1846.1	2028.3	2428.5	2659.9	2411.3	2023.3	1827.7	1798.1	1788.7
80°	1307.1	1282.6	1366.2	1527.8	1812.6	2130.9	1838.8	1524.5	1321.6	1267.5	1280.9
82.5°	444.8	455.4	587.5	784.2	994.9	1244.1	1056.3	763.6	562.4	494.4	464.3
85°	54.1	58.5	91.4	166.7	313.3	452.6	319.9	169.4	105.3	64.7	56.9
87.5°	26.2	27.9	39.0	41.8	51.8	44.0	52.4	33.4	31.8	19.5	16.2
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°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	813.8	812.7	812.1	811.0	809.9	809.9	809.9	809.9	809.9	810.4
5°	813.8	812.7	812.1	810.4	809.3	809.3	808.8	809.3	808.8	809.3
7.5°	813.8	812.1	810.4	808.8	807.7	808.2	807.1	806.5	807.1	807.1
10°	813.2	810.4	808.2	806.5	806.0	805.4	805.4	804.9	806.0	805.4
12.5°	812.7	809.3	806.5	804.3	803.8	803.8	803.8	803.8	805.4	804.9
15°	812.1	808.8	806.0	803.2	802.6	803.8	803.8	804.9	806.0	806.0
17.5°	812.7	808.8	805.4	803.2	803.2	804.3	804.9	806.5	808.2	807.1
20°	814.9	810.4	807.7	805.4	806.5	807.7	807.7	808.8	810.4	809.3
22.5°	818.2	814.9	812.7	812.1	813.8	814.3	813.8	813.2	813.8	812.7
25°	826.0	822.7	821.0	823.3	824.9	824.4	822.1	819.9	818.8	818.2
27.5°	840.5	837.8	837.2	840.0	841.7	838.9	835.0	831.6	830.5	828.8
30°	858.4	856.7	858.4	861.2	861.7	857.3	851.7	846.7	845.0	845.0
32.5°	881.8	880.1	884.0	888.5	889.6	883.5	874.5	867.9	863.4	862.8
35°	915.8	914.7	915.8	921.4	920.8	914.7	904.6	896.8	892.4	892.4
37.5°	963.2	962.1	959.3	964.8	964.3	955.9	945.3	938.6	933.6	934.2
40°	1025.0	1023.4	1020.0	1021.1	1025.6	1014.4	1001.1	992.2	991.6	991.6
42.5°	1099.2	1091.4	1092.5	1099.2	1095.8	1082.4	1070.2	1062.4	1062.4	1061.8
45°	1180.0	1177.2	1176.1	1178.3	1181.1	1170.5	1149.9	1141.0	1140.4	1140.4
47.5°	1273.6	1259.7	1262.5	1268.1	1274.7	1261.4	1235.2	1224.6	1222.9	1223.5
50°	1365.0	1350.6	1353.3	1365.0	1377.9	1356.7	1324.4	1311.5	1309.3	1310.4
52.5°	1459.8	1447.5	1447.5	1467.0	1483.8	1457.6	1416.9	1401.3	1401.3	1400.7
55°	1560.1	1543.4	1550.1	1575.2	1595.2	1563.5	1513.3	1501.0	1491.6	1495.5
57.5°	1659.9	1643.2	1648.8	1687.2	1712.3	1674.4	1611.4	1585.8	1580.2	1579.1
60°	1761.9	1743.0	1749.6	1809.8	1839.4	1789.2	1696.7	1665.5	1660.5	1659.9
62.5°	1875.1	1861.7	1871.7	1941.4	1975.4	1904.0	1787.5	1751.9	1753.5	1749.6
65°	2016.1	2005.5	2022.8	2108.0	2149.8	2045.1	1905.2	1863.9	1868.9	1868.4
67.5°	2217.8	2205.0	2215.6	2334.9	2372.2	2237.9	2068.5	2027.8	2035.6	2048.4
70°	2344.4	2353.9	2449.2	2616.4	2718.9	2581.8	2357.8	2281.4	2285.3	2287.0
72°	2265.2	2289.2	2430.8	2680.5	2886.2	2691.1	2386.2	2250.7	2230.7	2232.9
72.5°	2244.0	2262.4	2404.6	2653.7	2872.2	2667.7	2355.5	2227.3	2195.0	2196.1
75°	2084.6	2119.7	2256.3	2515.5	2749.6	2550.1	2237.4	2100.8	2075.7	2075.7
77.5°	1809.8	1858.9	1998.8	2362.8	2643.7	2426.3	2087.4	1918.5	1892.9	1883.4
80°	1331.6	1403.5	1541.2	1900.7	2203.9	2005.5	1718.4	1544.5	1504.4	1489.9
82.5°	524.5	586.4	817.7	1144.9	1452.6	1236.3	934.7	779.8	655.5	642.1
85°	65.2	105.3	206.2	377.4	576.9	410.2	244.7	128.2	69.1	58.0
87.5°	19.0	35.7	39.0	63.5	75.2	69.1	43.5	39.0	21.7	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)