

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: P177349

Luminaire Tested: **VAL-E04-LED-E-U-WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177349
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-7050
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12691.3 lumens
Efficiency: N/A
Efficacy: 130.6 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

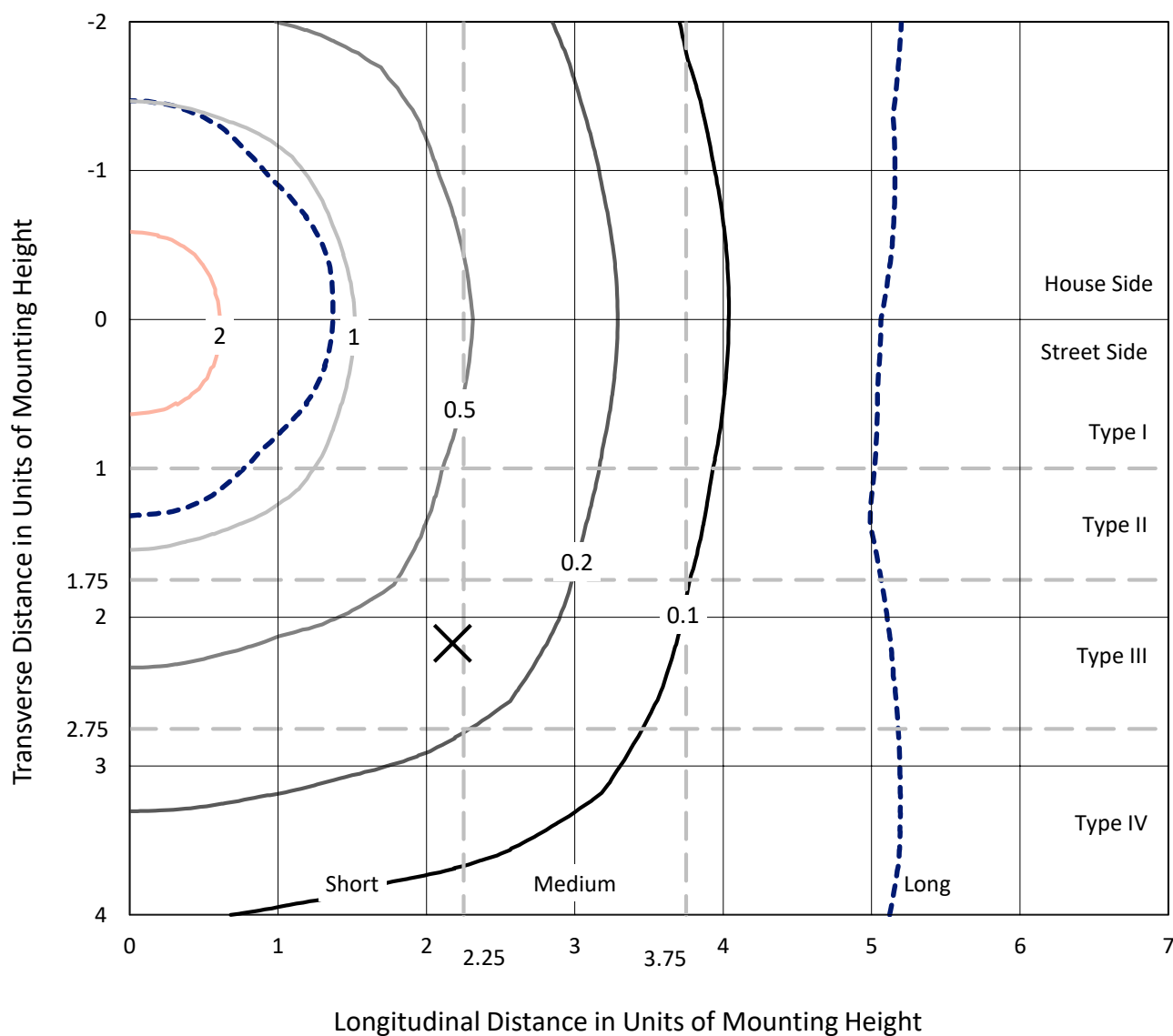


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

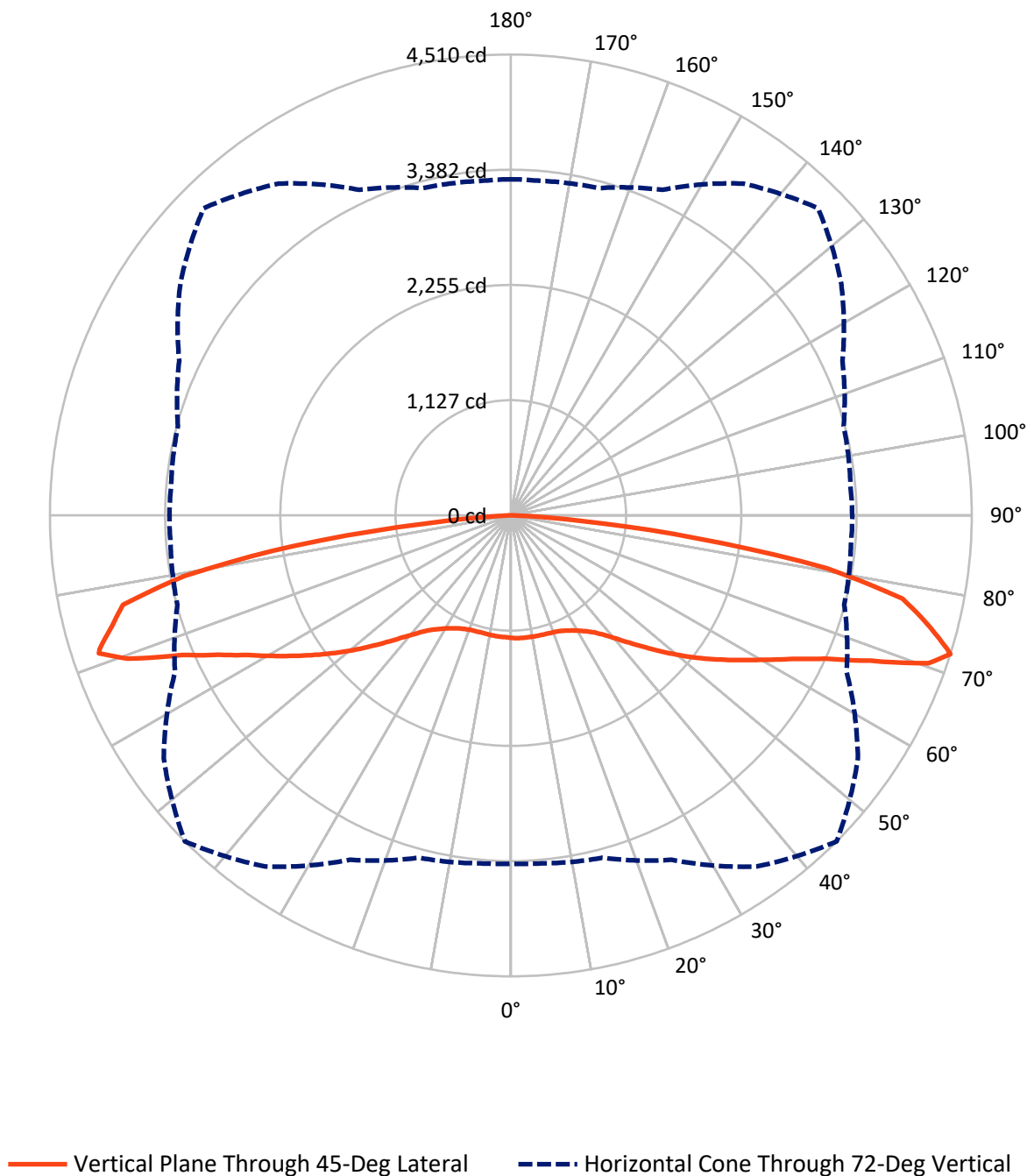


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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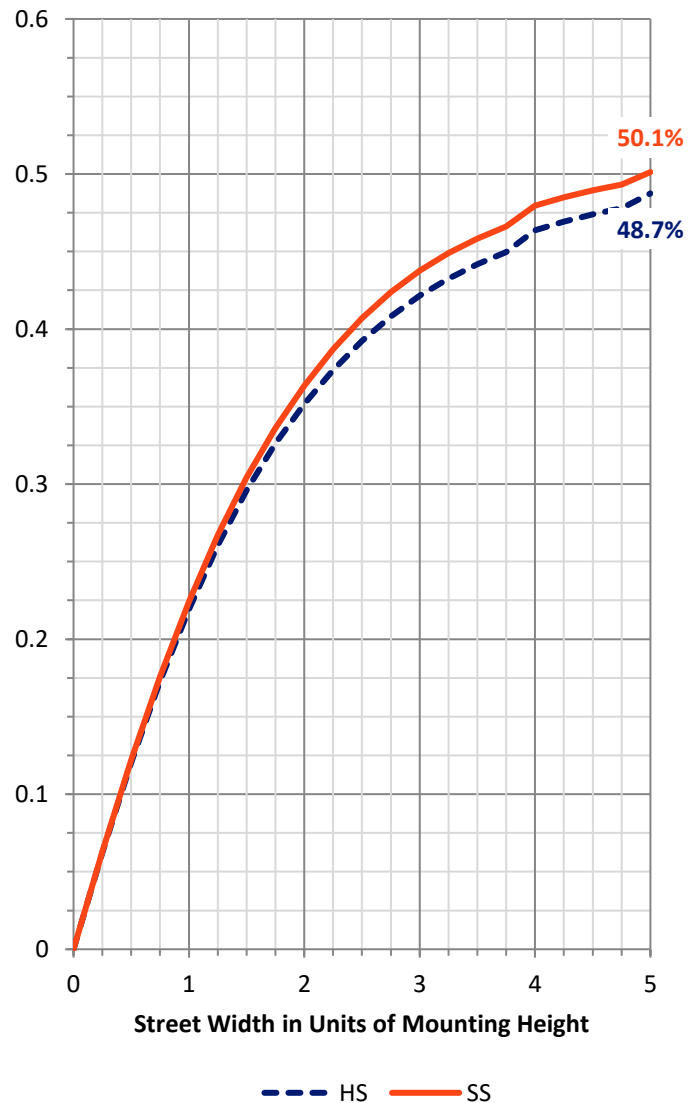
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6258.7	0.0	6258.7
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	6432.7	0.0	6432.7
	% Fixture	50.7	0.0	50.7
Total	Lumens	12691.3	0.0	12691.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	0.9
10°-20°	339.8	2.7
20°-30°	570.8	4.5
30°-40°	868.7	6.8
40°-50°	1373.3	10.8
50°-60°	2097.6	16.5
60°-70°	3073.0	24.2
70°-80°	3491.1	27.5
80°-90°	762.6	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°	12691.3	100.0
0°-180°	12691.3	100.0

Coefficient of Utilization



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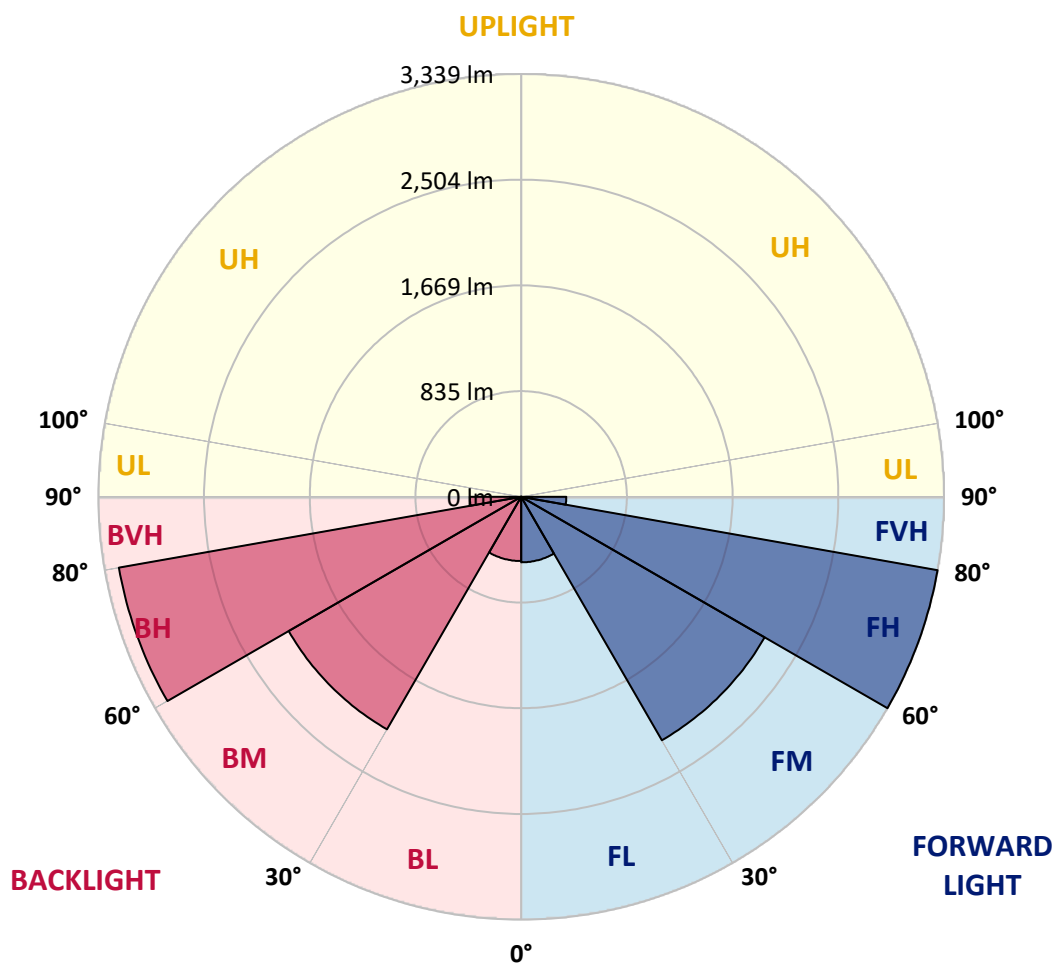
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.6	4.1			
FM	(30°-60°)	2219.7	17.5			
FH	(60°-80°)	3338.7	26.3			G2/5000
FVH	(80°-90°)	356.7	2.8			G3/500
BL	(0°-30°)	507.4	4.0	B2/1000		
BM	(30°-60°)	2119.9	16.7	B2/2500		
BH	(60°-80°)	3225.4	25.4	B4/5000		G2/5000
BVH	(80°-90°)	405.9	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°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1208.3	1208.3	1205.1	1203.4	1203.4	1202.6	1201.8	1201.8	1201.0	1201.8	1199.3
5°	1210.0	1210.0	1206.7	1205.1	1204.2	1203.4	1203.4	1201.8	1201.0	1201.8	1199.3
7.5°	1210.0	1210.8	1209.2	1207.5	1205.1	1204.2	1203.4	1201.0	1201.0	1199.3	1198.5
10°	1213.3	1215.7	1212.4	1210.0	1206.7	1205.1	1202.6	1201.0	1200.1	1198.5	1198.5
12.5°	1215.7	1218.2	1214.9	1212.4	1209.2	1206.7	1203.4	1201.0	1199.3	1196.8	1197.7
15°	1219.0	1221.5	1218.2	1214.9	1211.6	1208.3	1205.1	1201.8	1199.3	1197.7	1197.7
17.5°	1220.7	1223.1	1219.8	1216.6	1214.1	1212.4	1208.3	1203.4	1200.1	1198.5	1198.5
20°	1223.1	1225.6	1223.1	1221.5	1219.0	1218.2	1214.1	1208.3	1204.2	1201.8	1201.0
22.5°	1228.9	1230.5	1229.7	1229.7	1229.7	1228.9	1225.6	1216.6	1211.6	1207.5	1206.7
25°	1242.8	1242.0	1243.6	1245.3	1246.1	1247.7	1242.8	1233.0	1226.4	1219.8	1219.0
27.5°	1265.8	1266.6	1267.4	1270.7	1274.0	1274.8	1269.9	1259.2	1249.4	1240.4	1239.5
30°	1292.1	1292.1	1295.4	1301.9	1305.2	1307.7	1302.7	1289.6	1277.3	1268.3	1266.6
32.5°	1329.8	1333.1	1334.8	1342.1	1348.7	1351.2	1343.8	1329.8	1315.9	1304.4	1301.9
35°	1384.0	1388.9	1390.6	1397.1	1404.5	1405.4	1398.8	1383.2	1368.4	1352.8	1353.6
37.5°	1460.4	1461.2	1465.3	1466.9	1480.9	1480.9	1470.2	1456.2	1441.5	1427.5	1423.4
40°	1562.1	1563.0	1564.6	1562.1	1578.6	1583.5	1569.5	1548.2	1534.2	1516.2	1513.7
42.5°	1673.0	1681.2	1680.4	1676.2	1692.7	1703.3	1686.1	1661.5	1646.7	1627.8	1624.5
45°	1810.0	1808.4	1801.0	1810.0	1828.9	1840.4	1819.1	1787.9	1772.3	1748.5	1747.7
47.5°	1943.0	1941.4	1929.9	1936.5	1971.8	1990.6	1959.5	1924.2	1903.6	1889.7	1879.0
50°	2069.4	2080.9	2066.2	2080.1	2126.1	2151.5	2122.8	2067.0	2042.4	2021.0	2015.3
52.5°	2218.0	2224.6	2211.5	2233.6	2284.5	2321.5	2282.1	2209.8	2185.2	2161.4	2154.0
55°	2369.9	2366.6	2360.0	2384.7	2447.1	2490.6	2447.9	2360.9	2324.7	2306.7	2306.7
57.5°	2519.3	2520.9	2505.3	2534.9	2613.7	2671.2	2617.8	2511.1	2466.8	2446.2	2452.8
60°	2679.4	2679.4	2655.6	2682.7	2792.6	2865.7	2785.3	2662.9	2614.5	2602.2	2603.0
62.5°	2859.1	2852.6	2826.3	2860.0	2993.8	3090.6	2989.7	2837.0	2773.8	2773.8	2779.5
65°	3066.8	3056.2	3047.1	3085.7	3258.9	3377.1	3244.1	3051.2	2995.4	2988.8	2999.5
67.5°	3365.6	3377.1	3354.1	3405.0	3641.4	3795.8	3593.8	3345.1	3286.0	3280.3	3306.5
70°	3634.9	3623.4	3652.9	3796.6	4118.4	4333.4	4052.7	3670.2	3501.1	3466.6	3477.3
72°	3408.3	3417.3	3467.4	3717.0	4193.9	4509.9	4145.5	3625.0	3377.1	3341.0	3340.2
72.5°	3355.8	3362.3	3405.0	3644.7	4139.7	4463.1	4098.7	3567.6	3333.6	3302.4	3300.8
75°	3080.0	3093.1	3160.4	3393.5	3895.9	4200.5	3858.2	3361.5	3104.6	3045.5	3057.8
77.5°	2623.5	2650.6	2718.8	2987.2	3576.6	3917.3	3551.1	2979.8	2691.7	2648.2	2634.2
80°	1925.0	1888.9	2012.0	2250.0	2669.5	3138.2	2708.1	2245.1	1946.3	1866.7	1886.4
82.5°	655.1	670.7	865.2	1155.0	1465.3	1832.2	1555.6	1124.6	828.3	728.1	683.8
85°	79.6	86.2	134.6	245.4	461.3	666.6	471.2	249.5	155.1	95.2	83.7
87.5°	38.6	41.0	57.5	61.6	76.3	64.8	77.2	49.3	46.8	28.7	23.8
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°	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1198.5	1196.8	1196.0	1194.4	1192.7	1192.7	1192.7	1192.7	1192.7	1193.6
5°	1198.5	1196.8	1196.0	1193.6	1191.9	1191.9	1191.1	1191.9	1191.1	1191.9
7.5°	1198.5	1196.0	1193.6	1191.1	1189.5	1190.3	1188.6	1187.8	1188.6	1188.6
10°	1197.7	1193.6	1190.3	1187.8	1187.0	1186.2	1186.2	1185.4	1187.0	1186.2
12.5°	1196.8	1191.9	1187.8	1184.5	1183.7	1183.7	1183.7	1183.7	1186.2	1185.4
15°	1196.0	1191.1	1187.0	1182.9	1182.1	1183.7	1183.7	1185.4	1187.0	1187.0
17.5°	1196.8	1191.1	1186.2	1182.9	1182.9	1184.5	1185.4	1187.8	1190.3	1188.6
20°	1200.1	1193.6	1189.5	1186.2	1187.8	1189.5	1189.5	1191.1	1193.6	1191.9
22.5°	1205.1	1200.1	1196.8	1196.0	1198.5	1199.3	1198.5	1197.7	1198.5	1196.8
25°	1216.6	1211.6	1209.2	1212.4	1214.9	1214.1	1210.8	1207.5	1205.9	1205.1
27.5°	1237.9	1233.8	1233.0	1237.1	1239.5	1235.4	1229.7	1224.8	1223.1	1220.7
30°	1264.2	1261.7	1264.2	1268.3	1269.1	1262.5	1254.3	1246.9	1244.5	1244.5
32.5°	1298.6	1296.2	1301.9	1308.5	1310.1	1301.1	1288.0	1278.1	1271.5	1270.7
35°	1348.7	1347.1	1348.7	1356.9	1356.1	1347.1	1332.3	1320.8	1314.2	1314.2
37.5°	1418.5	1416.8	1412.7	1421.0	1420.1	1407.8	1392.2	1382.4	1375.0	1375.8
40°	1509.6	1507.1	1502.2	1503.9	1510.4	1494.0	1474.3	1461.2	1460.4	1460.4
42.5°	1618.8	1607.3	1608.9	1618.8	1613.9	1594.2	1576.1	1564.6	1564.6	1563.8
45°	1737.8	1733.7	1732.1	1735.3	1739.5	1723.9	1693.5	1680.4	1679.5	1679.5
47.5°	1875.7	1855.2	1859.3	1867.5	1877.4	1857.7	1819.1	1803.5	1801.0	1801.8
50°	2010.3	1989.0	1993.1	2010.3	2029.2	1998.0	1950.4	1931.5	1928.3	1929.9
52.5°	2149.9	2131.8	2131.8	2160.6	2185.2	2146.6	2086.7	2063.7	2063.7	2062.9
55°	2297.7	2273.0	2282.9	2319.8	2349.4	2302.6	2228.7	2210.6	2196.7	2202.4
57.5°	2444.6	2420.0	2428.2	2484.8	2521.8	2465.9	2373.2	2335.4	2327.2	2325.6
60°	2594.8	2566.9	2576.8	2665.4	2708.9	2635.0	2498.8	2452.8	2445.4	2444.6
62.5°	2761.5	2741.8	2756.5	2859.1	2909.2	2804.1	2632.6	2580.0	2582.5	2576.8
65°	2969.1	2953.5	2979.0	3104.6	3166.2	3011.8	2805.8	2745.0	2752.4	2751.6
67.5°	3266.3	3247.4	3263.0	3438.7	3493.7	3295.9	3046.3	2986.4	2997.9	3016.8
70°	3452.6	3466.6	3607.0	3853.2	4004.3	3802.3	3472.3	3359.9	3365.6	3368.1
72°	3336.1	3371.4	3579.9	3947.6	4250.5	3963.2	3514.2	3314.7	3285.2	3288.5
72.5°	3304.9	3332.0	3541.3	3908.2	4230.0	3928.8	3469.1	3280.3	3232.6	3234.3
75°	3070.1	3121.8	3322.9	3704.7	4049.4	3755.5	3295.0	3093.9	3057.0	3057.0
77.5°	2665.4	2737.6	2943.7	3479.7	3893.5	3573.3	3074.2	2825.5	2787.7	2773.8
80°	1961.1	2067.0	2269.7	2799.2	3245.8	2953.5	2530.8	2274.7	2215.6	2194.2
82.5°	772.5	863.6	1204.2	1686.1	2139.2	1820.7	1376.6	1148.4	965.4	945.7
85°	96.0	155.1	303.7	555.7	849.6	604.2	360.4	188.8	101.8	85.4
87.5°	27.9	52.5	57.5	93.6	110.8	101.8	64.0	57.5	32.0	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)