

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: P177387

Luminaire Tested: **VAL-E04-LED-E-U-GL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177387
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-GL2-HSS-7030
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE II W/ GLARE CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6497.8 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

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

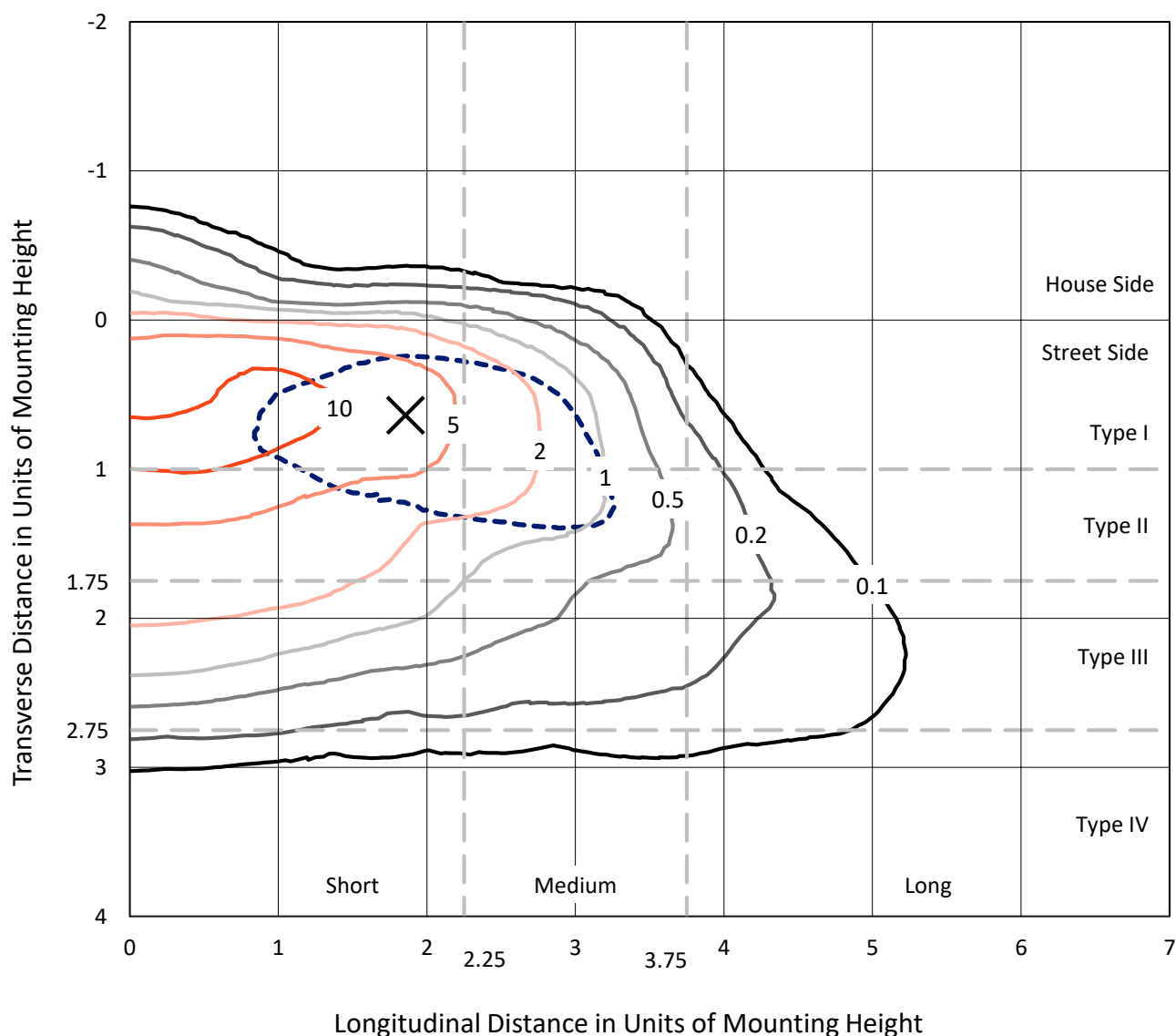


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

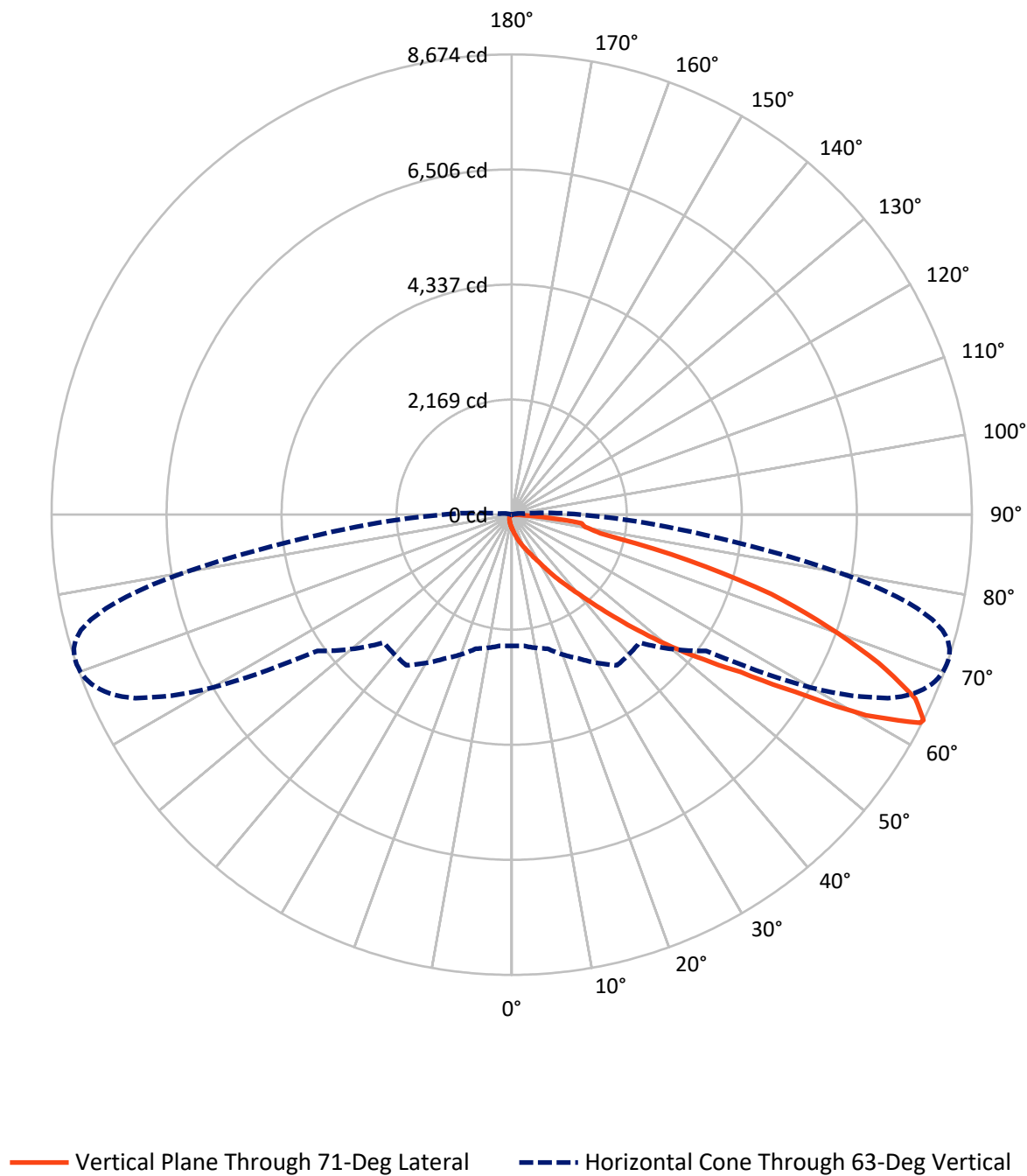


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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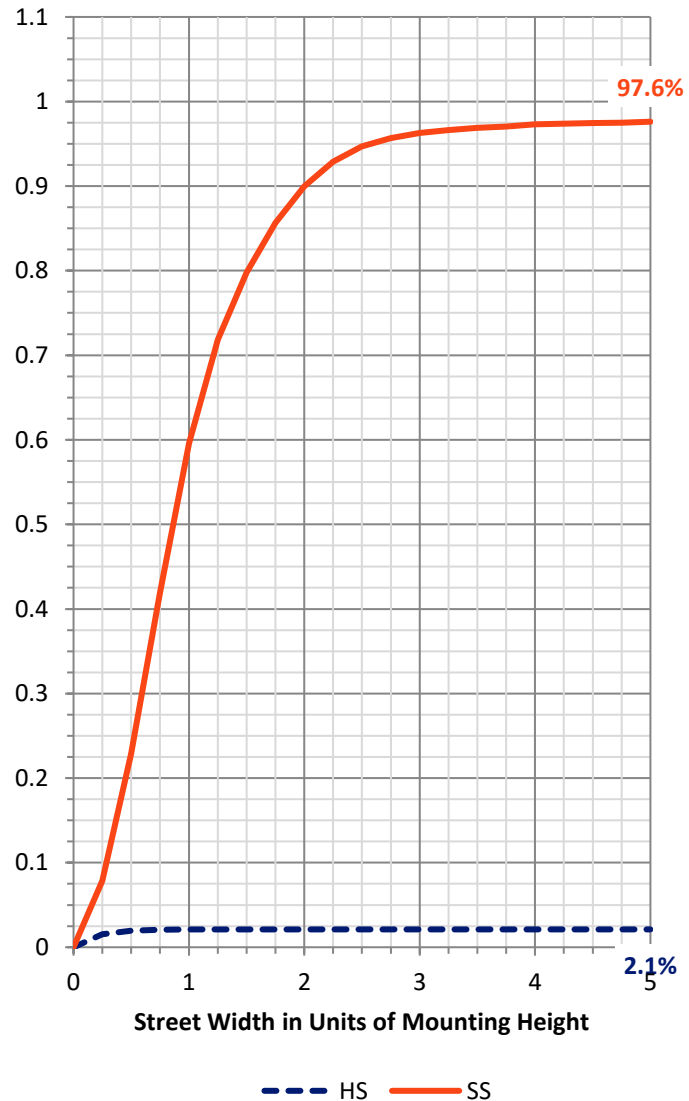
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	138.0	0.0	138.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6359.8	0.0	6359.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	6497.8	0.0	6497.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	0.4
10°-20°	106.8	1.6
20°-30°	217.0	3.3
30°-40°	530.2	8.2
40°-50°	1185.7	18.2
50°-60°	1667.3	25.7
60°-70°	1960.6	30.2
70°-80°	707.9	10.9
80°-90°	94.7	1.5
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°	6497.8	100.0
0°-180°	6497.8	100.0

Coefficient of Utilization



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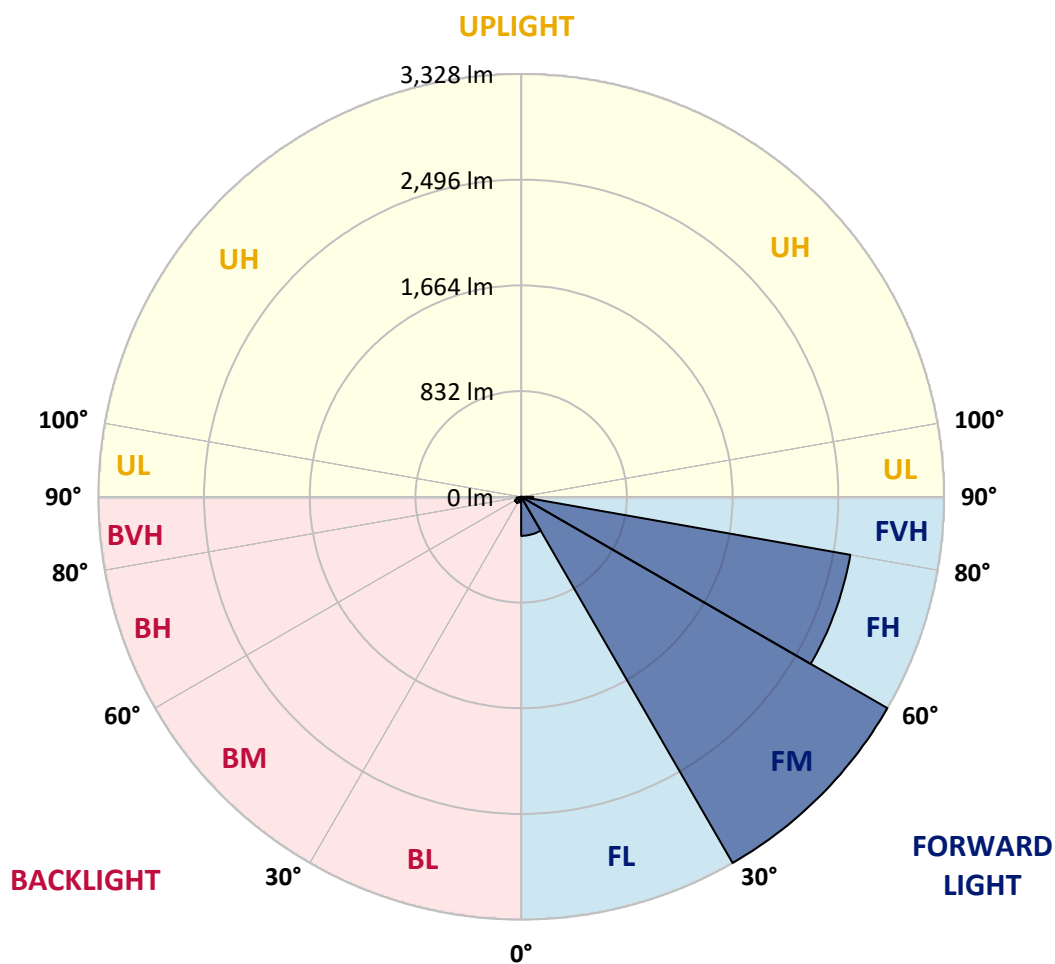
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.0	4.7			
FM	(30°-60°)	3327.6	51.2			
FH	(60°-80°)	2630.7	40.5			G2/5000
FVH	(80°-90°)	94.5	1.5			G1/100
BL	(0°-30°)	44.4	0.7	B0/110		
BM	(30°-60°)	55.6	0.9	B0/220		
BH	(60°-80°)	37.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2
2.5°	326.0	329.5	327.2	321.3	314.2	304.8	296.5	296.5	295.3	291.8	292.9
5°	427.6	428.8	424.1	409.9	396.9	376.8	354.4	352.0	349.6	346.1	345.0
7.5°	526.8	531.6	526.8	511.5	485.5	454.8	419.3	415.8	408.7	408.7	404.0
10°	628.5	628.5	623.7	606.0	582.4	538.7	493.8	487.9	479.6	477.2	470.1
12.5°	700.5	700.5	698.1	688.7	669.7	630.8	576.4	570.5	559.9	556.3	548.1
15°	728.9	728.9	730.0	738.3	739.4	721.8	665.1	660.3	649.7	640.2	636.7
17.5°	746.5	745.4	745.4	757.2	778.5	790.2	753.6	748.9	737.1	732.4	720.6
20°	785.6	783.1	776.1	776.1	796.1	837.5	837.5	836.3	823.3	819.8	813.9
22.5°	843.4	841.1	819.8	802.1	811.5	863.5	912.0	909.6	904.9	900.1	896.5
25°	937.9	929.6	893.0	841.1	832.8	888.3	968.7	974.5	978.1	978.1	980.4
27.5°	1080.8	1070.2	1005.3	908.4	871.8	928.5	1031.2	1043.0	1053.7	1056.1	1066.6
30°	1279.3	1260.4	1167.1	1025.4	941.5	987.5	1123.3	1136.4	1151.7	1156.4	1173.0
32.5°	1605.3	1594.7	1504.9	1292.3	1112.8	1103.3	1252.1	1268.7	1288.8	1297.0	1317.1
35°	2101.4	2103.8	2030.6	1839.2	1591.1	1461.2	1482.5	1496.7	1503.7	1528.5	1539.2
37.5°	2438.1	2444.0	2460.6	2384.9	2207.8	2075.5	1908.9	1924.2	1887.6	1891.2	1892.4
40°	2622.4	2641.3	2738.2	2811.4	2797.2	2720.4	2587.0	2595.2	2526.7	2511.3	2436.9
42.5°	2745.2	2770.0	2924.8	3151.6	3267.4	3337.0	3306.3	3302.8	3249.6	3229.5	3166.9
45°	2822.0	2844.5	3039.3	3373.7	3640.6	3843.8	3927.7	3937.1	3892.3	3872.2	3820.1
47.5°	2818.5	2844.5	3053.5	3456.3	3849.7	4174.5	4410.8	4422.6	4449.8	4432.1	4435.6
50°	2662.5	2687.4	2897.6	3315.8	3788.3	4325.8	4758.1	4795.9	4839.6	4869.1	4883.3
52.5°	2473.6	2491.3	2677.9	3074.8	3526.0	4263.2	4963.7	5028.6	5093.6	5149.1	5188.0
55°	2403.9	2424.0	2570.4	2900.0	3315.8	4000.9	5059.3	5155.0	5247.2	5338.1	5412.5
57.5°	2440.5	2459.4	2564.5	2817.3	3190.6	3724.5	5086.5	5235.3	5386.5	5534.2	5680.7
60°	2575.1	2595.2	2685.0	2894.1	3157.5	3565.0	4980.2	5227.1	5478.6	5736.2	5978.4
62.5°	2521.9	2530.3	2662.5	3028.7	3393.7	3429.2	4593.9	4938.8	5322.7	5719.6	6110.6
63°	2471.2	2480.7	2615.3	2992.1	3465.8	3409.1	4474.6	4838.4	5243.6	5671.2	6096.4
65°	2240.9	2242.0	2344.8	2642.4	3385.5	3444.6	3943.0	4290.3	4755.7	5268.4	5805.8
67.5°	1672.7	1664.4	1763.6	1990.4	2657.8	3445.7	3384.3	3579.2	3902.9	4357.6	4839.6
70°	593.0	580.0	740.6	1054.9	1656.1	2818.5	2908.3	2921.3	3011.0	3256.7	3559.1
72.5°	192.5	196.1	236.2	386.2	763.1	1897.1	2633.0	2592.8	2569.2	2568.0	2608.2
75°	76.8	78.0	94.5	171.3	342.5	914.3	2305.8	2328.2	2336.5	2348.3	2361.3
77.5°	36.6	40.2	53.1	95.6	170.1	452.4	1650.2	1840.4	1949.1	2033.0	2083.8
80°	13.0	15.3	29.5	59.0	79.1	207.9	869.4	1049.0	1208.4	1413.9	1591.1
82.5°	0.0	0.0	5.9	41.4	43.7	83.9	356.7	418.2	478.4	620.1	796.1
85°	0.0	0.0	0.0	11.8	13.0	14.2	120.5	145.3	163.0	190.2	219.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	7.1	17.7	27.2
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2
2.5°	290.6	289.4	289.4	287.0	285.8	283.5	282.3	278.8	277.6	277.6	277.6
5°	343.7	339.0	336.6	330.8	327.2	326.0	320.1	317.8	314.2	315.4	309.5
7.5°	402.8	394.6	391.0	382.7	380.4	372.1	369.7	363.8	360.3	353.2	350.8
10°	467.8	457.1	451.3	438.3	434.7	428.8	421.7	414.6	408.7	401.7	398.1
12.5°	542.2	532.7	528.0	510.3	502.1	493.8	484.3	474.9	465.4	459.5	451.3
15°	629.6	614.3	609.5	593.0	578.8	568.2	555.2	543.4	536.3	524.5	516.2
17.5°	715.8	700.5	696.9	672.2	656.8	649.7	635.5	620.1	607.2	595.4	582.4
20°	802.1	791.5	782.0	758.4	741.9	730.0	711.1	695.8	685.2	668.6	652.1
22.5°	888.3	877.7	870.6	845.8	830.4	813.9	797.3	780.8	765.5	745.4	726.4
25°	976.9	969.8	966.3	943.8	929.6	914.3	897.8	878.9	859.9	837.5	817.4
27.5°	1069.1	1071.4	1064.3	1059.6	1044.2	1033.6	1007.6	994.6	980.4	953.2	928.5
30°	1186.0	1193.1	1190.7	1194.2	1184.8	1177.7	1157.6	1141.1	1124.6	1098.6	1070.2
32.5°	1333.6	1343.1	1347.8	1360.8	1356.1	1353.7	1347.8	1324.2	1312.4	1267.5	1255.7
35°	1561.6	1556.9	1577.0	1587.6	1582.9	1580.5	1573.4	1560.4	1546.3	1514.3	1484.8
37.5°	1858.1	1862.9	1870.0	1848.7	1834.5	1833.3	1812.0	1799.1	1779.0	1743.5	1708.1
40°	2401.5	2371.9	2338.9	2249.1	2210.2	2187.7	2125.1	2107.4	2073.1	2024.6	1988.0
42.5°	3107.9	3078.4	2979.1	2829.1	2748.7	2637.8	2587.0	2524.4	2475.9	2396.8	2354.3
45°	3809.5	3724.5	3712.7	3537.9	3438.7	3292.2	3201.2	3096.0	2986.2	2882.2	2806.7
47.5°	4401.3	4382.5	4324.6	4218.3	4126.2	4003.3	3886.3	3724.5	3611.1	3463.4	3327.6
50°	4875.0	4873.9	4852.6	4791.1	4714.4	4615.2	4512.4	4375.4	4246.6	4065.9	3920.6
52.5°	5229.4	5248.3	5255.4	5236.5	5207.0	5119.6	5067.6	4953.0	4844.3	4690.7	4533.7
55°	5489.3	5559.0	5594.5	5634.6	5626.3	5595.6	5593.2	5518.8	5469.2	5347.6	5236.5
57.5°	5810.6	5925.2	6035.1	6229.9	6237.0	6305.6	6341.0	6376.4	6385.9	6337.4	6300.8
60°	6219.3	6453.2	6661.1	7068.6	7174.9	7342.7	7451.3	7569.5	7669.9	7678.1	7675.8
62.5°	6507.5	6867.8	7203.3	7808.1	8014.8	8208.5	8353.8	8468.4	8538.1	8608.9	8642.0
63°	6515.8	6910.3	7267.1	7890.8	8108.1	8292.4	8430.6	8536.9	8610.2	8652.7	8674.0
65°	6316.1	6794.6	7219.9	7841.1	8045.5	8231.0	8303.0	8372.7	8408.2	8424.7	8362.1
67.5°	5353.5	5821.3	6317.3	7011.9	7186.8	7408.8	7467.9	7503.4	7519.9	7516.3	7463.2
70°	4003.3	4395.5	4947.1	5740.9	5972.4	6189.7	6324.4	6382.3	6401.2	6395.3	6316.1
72.5°	2794.9	3025.2	3480.0	4363.5	4679.0	4957.7	5124.3	5210.5	5228.2	5192.8	5119.6
75°	2347.2	2359.0	2461.7	2944.9	3240.2	3537.9	3725.7	3780.0	3744.6	3637.1	3450.4
77.5°	2095.5	2121.5	2121.5	2193.6	2251.4	2334.2	2351.9	2219.6	2066.0	1867.5	1706.9
80°	1757.7	1848.7	1912.5	1965.6	1971.5	1955.0	1911.2	1836.9	1718.7	1567.5	1399.8
82.5°	1067.9	1247.4	1320.6	1594.7	1729.4	1820.3	1813.3	1714.0	1624.2	1467.1	1324.2
85°	269.3	290.6	315.4	409.9	459.5	561.1	624.9	654.4	665.1	610.7	552.8
87.5°	26.0	17.7	29.5	22.4	31.9	23.6	31.9	29.5	36.6	38.9	42.5
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2
2.5°	275.2	274.1	272.8	271.7	270.5	269.3	267.0	267.0	264.6	263.4	262.2
5°	305.9	303.6	302.4	300.0	296.5	294.1	290.6	285.8	282.3	281.2	278.8
7.5°	345.0	339.0	336.6	333.1	328.4	321.3	316.6	313.0	307.1	303.6	296.5
10°	388.6	382.7	375.6	368.6	361.5	353.2	347.3	342.5	333.1	328.4	320.1
12.5°	444.2	433.5	425.3	415.8	406.3	396.9	389.8	375.6	367.4	356.7	349.6
15°	500.9	491.4	482.0	470.1	455.9	440.6	433.5	420.5	409.9	393.3	383.9
17.5°	569.3	551.7	537.5	523.3	510.3	496.1	482.0	461.9	446.5	432.3	413.4
20°	636.7	615.5	600.1	581.2	562.3	539.8	523.3	509.1	487.9	469.0	448.9
22.5°	708.8	687.5	662.7	643.8	617.8	600.1	577.6	554.0	532.7	508.0	483.1
25°	796.1	773.7	745.4	720.6	691.0	666.2	639.1	611.9	585.9	557.6	525.7
27.5°	903.6	880.0	849.3	819.8	780.8	750.1	724.1	687.5	654.4	619.0	582.4
30°	1039.5	1013.5	975.8	933.2	894.2	859.9	823.3	774.9	738.3	695.8	648.5
32.5°	1216.7	1186.0	1135.2	1095.0	1046.6	1001.7	950.9	902.5	850.5	795.0	740.6
35°	1440.0	1411.6	1352.6	1293.5	1240.3	1187.1	1123.3	1067.9	994.6	927.3	857.6
37.5°	1671.5	1620.6	1566.4	1502.6	1436.4	1372.6	1294.6	1217.9	1134.0	1060.8	973.3
40°	1936.1	1874.6	1829.8	1761.2	1667.9	1577.0	1504.9	1409.3	1304.1	1206.1	1103.3
42.5°	2298.7	2230.2	2149.9	2045.9	1978.6	1872.3	1779.0	1665.6	1527.3	1417.5	1293.5
45°	2718.1	2624.7	2546.8	2446.4	2364.8	2232.6	2123.9	1972.7	1834.5	1690.4	1539.2
47.5°	3196.5	3080.7	2967.3	2868.1	2738.2	2608.2	2470.0	2309.4	2132.2	1973.9	1794.3
50°	3745.8	3581.6	3424.5	3296.9	3118.5	2968.5	2818.5	2637.8	2441.6	2259.8	2055.4
52.5°	4356.5	4166.3	3958.4	3762.3	3555.6	3363.0	3182.3	2974.4	2755.8	2533.8	2305.8
55°	5093.6	4950.7	4706.1	4456.9	4180.4	3922.9	3690.2	3432.7	3166.9	2875.2	2635.3
57.5°	6247.7	6178.0	5973.6	5724.4	5364.1	5051.0	4656.5	4341.1	3956.0	3554.4	3244.9
60°	7811.6	7725.4	7610.8	7408.8	7123.0	6697.7	6263.0	5772.8	5186.9	4630.5	4102.5
62.5°	8645.6	8614.9	8521.6	8382.1	8115.2	7779.8	7341.5	6802.9	6141.4	5465.6	4792.3
63°	8670.4	8631.5	8551.1	8409.3	8174.3	7849.4	7419.5	6896.2	6248.9	5560.2	4872.7
65°	8334.9	8319.6	8238.1	8083.3	7922.7	7674.6	7341.5	6891.4	6348.1	5697.2	5013.3
67.5°	7392.3	7346.2	7221.0	7173.7	7061.5	6889.1	6635.1	6325.6	5937.0	5425.5	4834.8
70°	6252.4	6183.9	6026.7	5942.9	5805.8	5697.2	5542.4	5321.5	5081.7	4725.0	4284.4
72.5°	5044.0	4902.2	4758.1	4539.6	4348.2	4154.5	3983.2	3827.2	3563.8	3419.7	3085.4
75°	3275.6	3018.1	2771.3	2440.5	2142.8	1879.4	1623.1	1493.1	1222.6	1112.8	955.7
77.5°	1554.5	1410.4	1216.7	1066.6	875.3	714.7	583.5	438.3	343.7	269.3	205.5
80°	1254.5	1132.8	1015.9	880.0	735.9	587.1	450.0	336.6	238.6	165.4	116.9
82.5°	1118.7	986.3	842.3	748.9	650.9	532.7	437.1	356.7	263.4	192.5	131.1
85°	434.7	366.2	282.3	230.3	179.5	147.7	133.5	92.1	72.0	56.7	43.7
87.5°	37.8	30.7	24.8	16.5	17.7	9.4	10.6	7.1	5.9	5.9	4.7
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2
2.5°	261.1	259.9	258.7	256.3	256.3	254.0	252.8	251.6	245.7	232.7	222.1
5°	274.1	271.7	269.3	265.7	263.4	259.9	257.5	254.0	241.0	216.1	194.9
7.5°	292.9	288.3	284.7	277.6	274.1	269.3	265.7	259.9	238.6	200.8	171.3
10°	315.4	307.1	301.2	292.9	285.8	279.9	274.1	265.7	236.2	184.3	150.0
12.5°	342.5	333.1	321.3	311.9	302.4	294.1	285.8	275.2	232.7	170.1	133.5
15°	369.7	355.5	347.3	334.3	321.3	309.5	297.7	288.3	233.9	154.8	119.3
17.5°	400.4	386.2	368.6	354.4	340.2	324.9	310.7	291.8	228.0	142.9	108.7
20°	430.0	409.9	393.3	375.6	355.5	336.6	318.9	302.4	223.2	131.1	99.2
22.5°	461.9	438.3	417.0	394.6	369.7	348.5	327.2	305.9	215.0	120.5	91.0
25°	500.9	473.7	442.9	415.8	389.8	363.8	336.6	310.7	206.7	111.1	85.1
27.5°	548.1	512.6	482.0	447.7	411.1	378.0	348.5	320.1	198.5	104.0	79.1
30°	608.4	567.0	523.3	479.6	440.6	402.8	361.5	326.0	190.2	96.9	73.2
32.5°	688.7	636.7	583.5	532.7	480.8	432.3	388.6	342.5	185.4	91.0	67.3
35°	795.0	727.7	662.7	598.9	536.3	477.2	420.5	368.6	185.4	83.9	60.2
37.5°	895.4	817.4	734.8	655.6	581.2	512.6	445.3	382.7	176.0	78.0	54.4
40°	1004.1	910.7	813.9	720.6	630.8	545.7	469.0	396.9	167.8	70.9	48.4
42.5°	1170.6	1052.5	926.1	817.4	709.9	604.8	509.1	424.1	157.1	63.8	42.5
45°	1389.2	1239.2	1090.3	958.0	821.0	692.2	578.8	473.7	154.8	57.9	36.6
47.5°	1623.1	1445.9	1271.0	1102.1	941.5	791.5	655.6	529.2	154.8	52.0	31.9
50°	1855.8	1633.7	1447.0	1250.9	1070.2	893.0	731.2	587.1	155.9	47.3	26.0
52.5°	2066.0	1828.6	1619.5	1392.7	1193.1	987.5	811.5	643.8	153.6	41.4	21.3
55°	2357.8	2079.0	1836.9	1586.5	1352.6	1121.0	921.4	728.9	154.8	36.6	17.7
57.5°	2895.2	2568.0	2276.3	1947.9	1678.6	1379.7	1137.5	903.6	168.9	30.7	13.0
60°	3666.6	3241.4	2831.5	2431.0	2088.4	1732.9	1418.7	1143.4	198.5	24.8	9.4
62.5°	4185.2	3628.8	3139.8	2698.0	2299.9	1927.8	1585.2	1272.2	218.5	20.1	5.9
63°	4238.3	3663.0	3171.7	2715.7	2309.4	1937.3	1592.3	1281.7	219.7	18.9	5.9
65°	4338.8	3722.2	3189.4	2719.2	2299.9	1924.2	1587.6	1280.4	222.1	15.3	4.7
67.5°	4224.1	3631.2	3086.6	2617.7	2217.2	1847.5	1528.5	1233.2	220.9	10.6	3.5
70°	3777.6	3286.2	2807.9	2370.8	2007.0	1672.7	1391.5	1124.6	203.2	7.1	2.3
72.5°	2773.6	2439.3	2068.4	1753.0	1512.0	1255.7	1071.4	844.6	157.1	4.7	1.2
75°	822.2	748.9	629.6	555.2	490.2	405.2	360.3	281.2	80.3	2.3	0.0
77.5°	164.2	148.8	133.5	121.7	114.6	98.1	93.3	76.8	33.1	1.2	0.0
80°	86.2	70.9	60.2	53.1	46.0	37.8	31.9	26.0	5.9	0.0	0.0
82.5°	82.7	55.5	40.2	33.1	28.4	22.4	17.7	13.0	3.5	0.0	0.0
85°	30.7	23.6	17.7	14.2	11.8	10.6	8.3	7.1	0.0	0.0	0.0
87.5°	4.7	3.5	3.5	2.3	2.3	1.2	1.2	1.2	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	249.2	249.2	249.2	249.2	249.2	249.2	249.2
2.5°	211.5	202.0	197.3	191.4	191.4	190.2	192.5
5°	176.0	163.0	153.6	146.5	147.7	144.1	145.3
7.5°	148.8	135.8	127.6	122.8	121.7	120.5	120.5
10°	128.7	116.9	109.8	106.3	105.1	105.1	105.1
12.5°	114.6	102.7	96.9	94.5	94.5	93.3	93.3
15°	102.7	93.3	87.4	85.1	85.1	83.9	85.1
17.5°	93.3	83.9	79.1	76.8	76.8	75.6	75.6
20°	85.1	76.8	72.0	68.5	68.5	67.3	68.5
22.5°	78.0	69.7	63.8	61.5	60.2	59.0	60.2
25°	70.9	62.6	56.7	53.1	52.0	52.0	50.8
27.5°	65.0	56.7	49.6	46.0	44.9	44.9	43.7
30°	59.0	49.6	42.5	38.9	37.8	37.8	37.8
32.5°	53.1	42.5	36.6	33.1	31.9	31.9	31.9
35°	47.3	36.6	30.7	27.2	26.0	26.0	26.0
37.5°	40.2	30.7	23.6	21.3	20.1	18.9	18.9
40°	34.3	23.6	17.7	15.3	13.0	13.0	13.0
42.5°	28.4	18.9	13.0	9.4	8.3	7.1	8.3
45°	23.6	14.2	8.3	4.7	3.5	3.5	3.5
47.5°	18.9	9.4	3.5	1.2	1.2	1.2	1.2
50°	14.2	5.9	1.2	0.0	0.0	1.2	1.2
52.5°	10.6	3.5	0.0	0.0	0.0	0.0	0.0
55°	5.9	1.2	0.0	0.0	0.0	0.0	0.0
57.5°	3.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)