

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: P177486

Luminaire Tested: **VAL-E02-LED-E-U-GL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177486
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-E02-LED-E-U-GL3-8030
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE III W/ GLARE CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5011.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 52.1
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

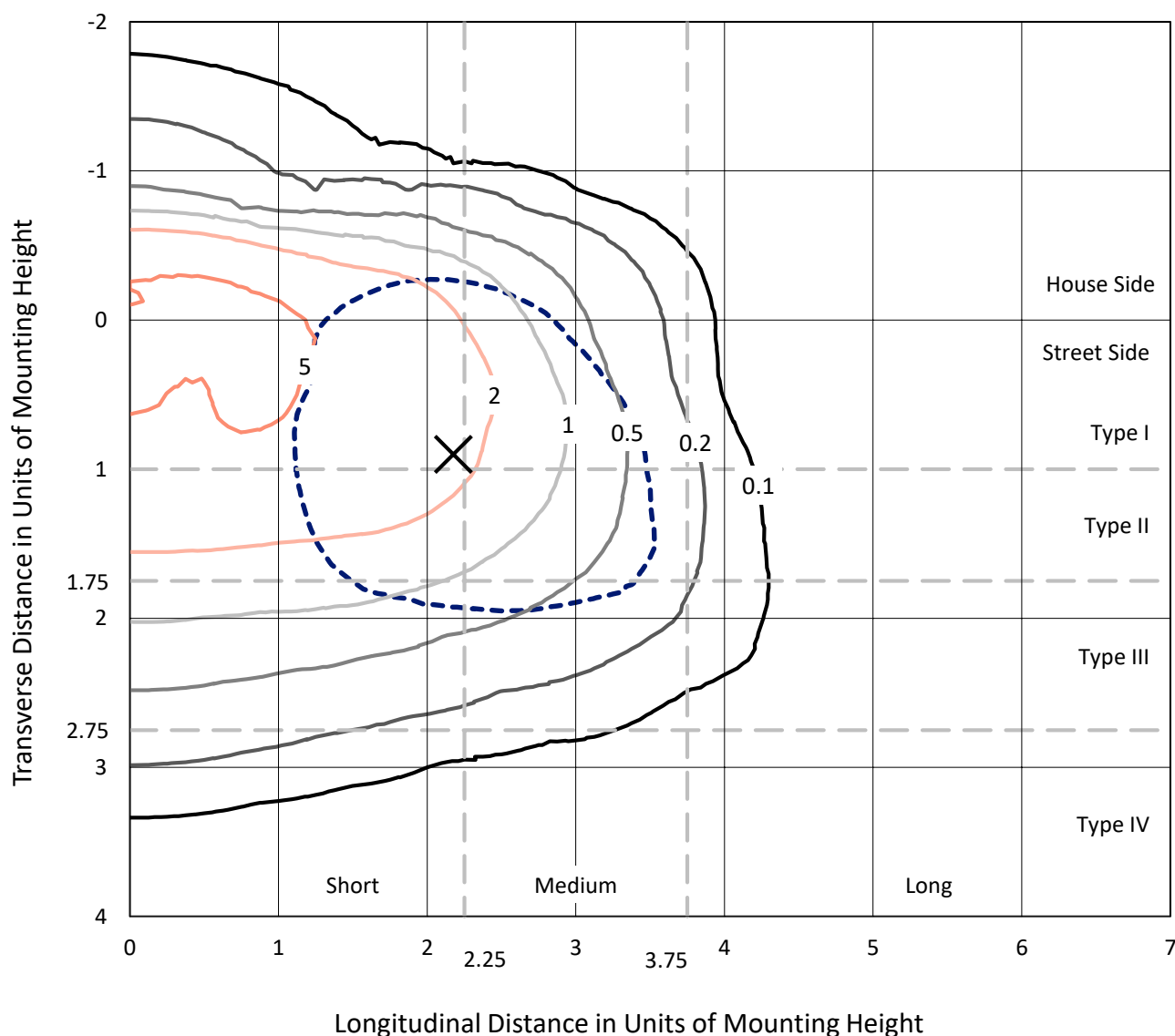


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

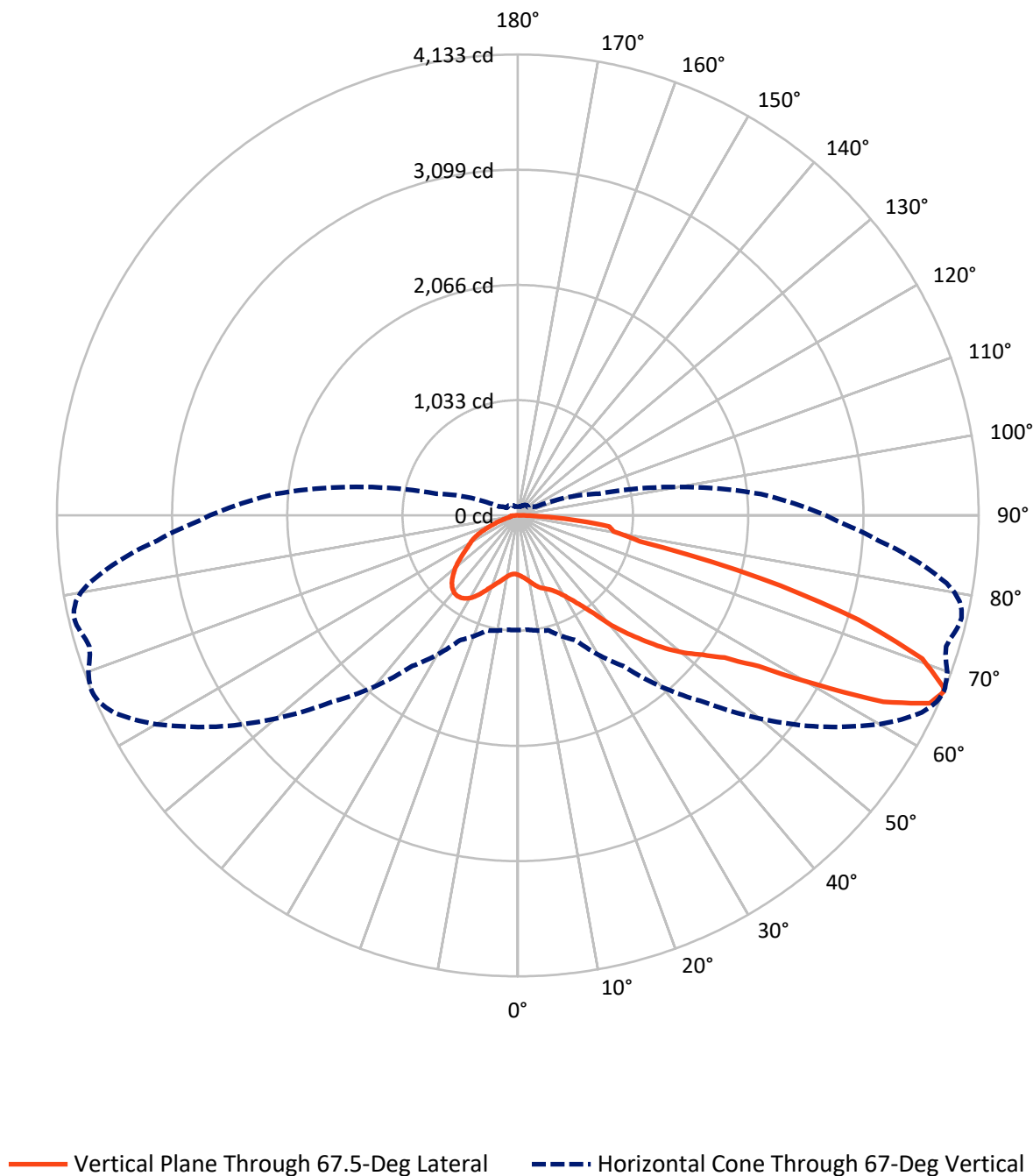


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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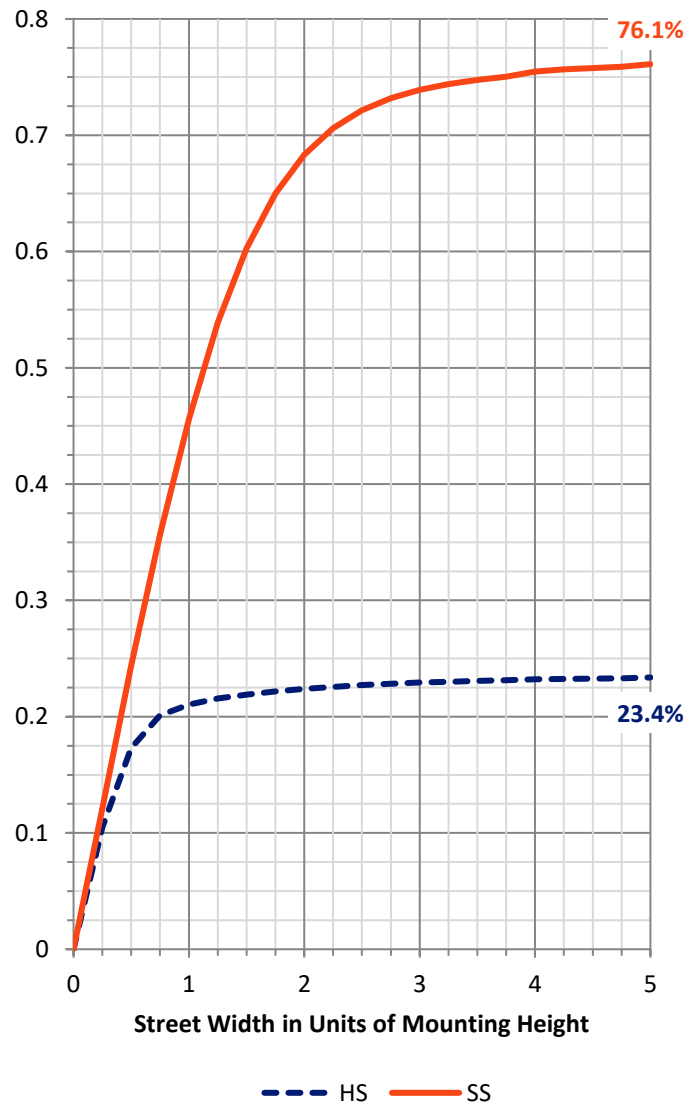
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.6	0.0	1186.6
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	3824.5	0.0	3824.5
	% Fixture	76.3	0.0	76.3
Total	Lumens	5011.1	0.0	5011.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.1
10°-20°	182.2	3.6
20°-30°	324.3	6.5
30°-40°	472.4	9.4
40°-50°	727.9	14.5
50°-60°	1066.1	21.3
60°-70°	1415.6	28.3
70°-80°	667.3	13.3
80°-90°	102.0	2.0
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°	5011.1	100.0
0°-180°	5011.1	100.0

Coefficient of Utilization



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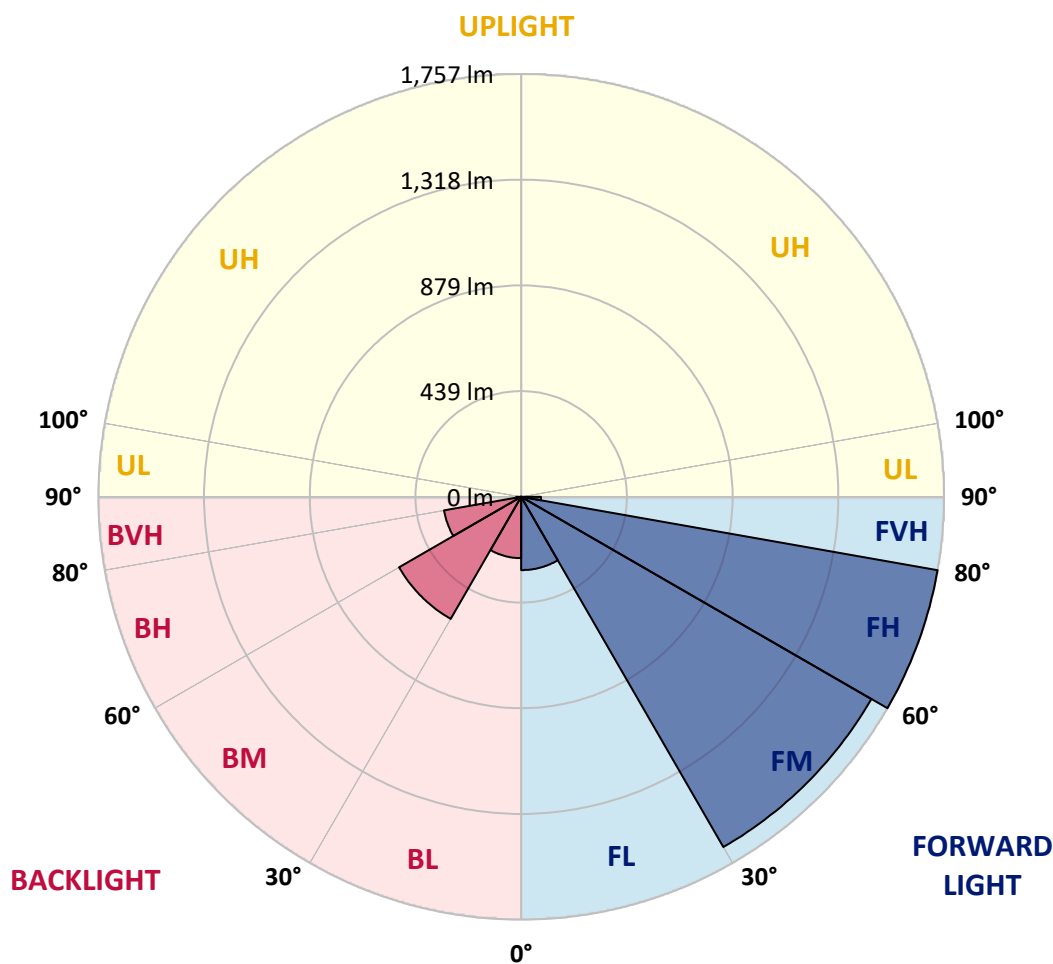
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.6	6.1			
FM	(30°-60°)	1680.5	33.5			
FH	(60°-80°)	1757.2	35.1			G1/1800
FVH	(80°-90°)	82.2	1.6			G1/100
BL	(0°-30°)	255.1	5.1	B1/500		
BM	(30°-60°)	586.0	11.7	B1/1000		
BH	(60°-80°)	325.8	6.5	B1/500		G1/500
BVH	(80°-90°)	19.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1
2.5°	559.7	557.4	557.7	558.7	555.3	553.7	549.9	547.6	547.2	546.9	545.6
5°	592.5	590.1	591.1	588.4	582.0	577.6	569.9	565.8	565.1	564.5	562.8
7.5°	626.6	623.5	620.2	617.1	610.0	602.9	592.8	586.7	586.1	585.1	584.0
10°	667.1	662.7	660.0	650.5	638.4	628.6	618.5	612.1	611.7	610.7	608.7
12.5°	712.7	707.9	702.9	690.4	671.5	657.0	645.1	641.4	638.4	638.7	636.7
15°	757.9	752.8	746.1	730.2	705.2	683.6	668.4	663.0	663.4	661.7	662.7
17.5°	796.1	791.7	781.9	761.6	732.6	702.9	683.6	681.3	681.9	681.6	682.6
20°	821.0	818.3	803.5	779.2	746.4	713.7	694.1	694.1	694.4	695.8	698.1
22.5°	836.2	832.2	812.6	778.5	746.1	718.7	703.6	706.9	709.0	710.0	713.7
25°	844.7	839.6	812.9	767.7	734.6	722.5	717.7	726.2	729.5	731.2	737.3
27.5°	844.7	838.6	808.5	754.2	721.4	733.6	744.7	759.3	761.6	766.7	773.8
30°	835.2	830.5	801.8	744.1	718.1	754.5	788.3	804.8	810.6	816.3	825.4
32.5°	825.1	821.0	798.4	749.5	737.0	798.4	854.8	877.4	880.8	885.5	895.0
35°	824.4	823.1	813.3	783.9	794.0	878.8	955.1	970.6	980.0	982.4	986.5
37.5°	831.5	834.2	842.6	839.6	876.1	998.3	1086.4	1117.4	1124.9	1120.8	1124.5
40°	848.0	854.8	886.2	925.0	1001.3	1142.8	1265.3	1301.1	1309.2	1306.8	1305.8
42.5°	900.4	909.5	955.7	1038.8	1131.6	1292.3	1431.4	1469.9	1472.6	1473.9	1465.2
45°	982.4	987.5	1048.9	1154.9	1272.7	1453.4	1597.2	1640.0	1638.4	1631.6	1625.2
47.5°	1075.6	1086.0	1159.6	1287.9	1418.6	1602.2	1765.0	1806.8	1810.5	1804.5	1792.6
50°	1160.3	1168.4	1251.5	1403.7	1547.2	1726.1	1906.4	1948.6	1947.9	1951.3	1954.7
52.5°	1227.2	1234.6	1313.6	1481.0	1641.7	1830.1	2013.1	2065.1	2073.2	2078.6	2085.3
55°	1261.6	1269.4	1342.3	1513.1	1699.1	1931.7	2136.3	2210.9	2224.8	2236.9	2248.1
57.5°	1262.3	1272.4	1339.2	1510.7	1728.8	2022.5	2299.4	2433.4	2453.0	2484.0	2522.2
60°	1241.7	1255.9	1316.0	1488.8	1762.9	2137.7	2568.1	2824.7	2863.2	2917.5	2966.5
62.5°	1188.0	1202.2	1255.9	1433.1	1802.8	2285.2	2956.3	3332.4	3414.4	3474.5	3571.4
65°	1103.3	1116.8	1162.0	1340.9	1771.0	2401.7	3245.7	3696.7	3780.4	3855.7	3969.5
67°	1027.6	1029.0	1067.1	1235.3	1647.5	2365.5	3303.7	3745.3	3822.6	3898.9	4030.9
67.5°	1001.0	1008.4	1038.1	1200.2	1600.5	2338.9	3280.8	3719.0	3793.9	3875.3	4010.0
70°	809.2	811.2	839.9	957.4	1270.0	1939.2	2946.9	3383.1	3434.4	3553.5	3685.9
72.5°	493.6	490.2	499.3	586.4	835.9	1343.0	2359.5	2785.2	2855.4	2957.0	3046.5
75°	271.8	288.0	299.1	359.5	469.6	789.6	1606.6	2015.1	2118.1	2178.5	2196.4
77.5°	166.1	164.7	169.8	231.9	385.2	540.2	887.5	1182.3	1239.7	1256.9	1190.4
80°	79.0	82.0	81.0	95.5	186.7	455.8	620.5	759.3	788.3	804.8	826.4
82.5°	43.2	44.9	51.0	57.1	73.6	196.1	535.4	700.2	719.8	748.1	779.8
85°	27.0	28.4	39.2	41.2	45.2	60.4	223.2	409.2	425.7	482.1	500.0
87.5°	11.1	12.2	21.3	19.2	23.0	21.3	67.5	104.0	110.4	117.5	130.3
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):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1
2.5°	545.9	545.6	544.2	543.9	544.5	544.5	543.9	542.9	542.5	542.2	541.5
5°	562.1	561.4	560.4	559.7	559.4	559.4	558.4	557.4	556.4	555.0	554.7
7.5°	581.3	581.3	581.0	580.0	579.0	577.6	576.6	575.6	574.6	573.9	572.9
10°	606.7	608.0	605.6	605.0	604.6	602.6	602.3	601.3	600.6	598.9	598.9
12.5°	636.7	635.4	635.0	633.7	633.7	632.7	632.3	632.0	631.3	630.0	629.6
15°	661.7	661.7	661.4	660.7	661.4	660.7	659.7	660.3	659.3	659.7	658.7
17.5°	681.9	683.3	683.0	683.3	683.0	683.0	683.6	683.6	684.3	683.0	683.3
20°	698.8	700.9	701.9	701.2	701.9	702.2	703.9	704.6	705.6	706.3	706.3
22.5°	716.4	719.1	721.1	721.1	722.5	723.8	726.8	727.5	729.9	729.5	731.2
25°	741.0	745.4	746.8	748.8	750.5	752.8	756.6	758.2	759.3	761.6	764.3
27.5°	778.8	784.2	785.2	787.6	792.0	793.4	797.4	799.1	802.8	807.9	808.9
30°	830.5	837.2	837.6	840.3	845.3	847.0	850.4	854.8	857.8	862.9	863.2
32.5°	900.7	907.5	906.4	911.5	911.2	916.2	915.2	922.0	924.7	927.4	934.8
35°	994.2	993.5	998.6	1000.3	999.3	1003.3	1002.7	1005.7	1008.4	1008.4	1016.5
37.5°	1128.9	1127.9	1127.2	1120.1	1118.5	1118.8	1117.4	1120.1	1115.8	1115.8	1124.5
40°	1309.5	1303.5	1298.7	1294.0	1289.3	1282.9	1277.5	1276.1	1268.7	1268.3	1265.0
42.5°	1466.5	1460.8	1457.4	1448.3	1443.6	1442.5	1429.4	1425.7	1423.6	1425.0	1421.6
45°	1631.3	1625.2	1612.4	1608.3	1607.0	1599.9	1597.8	1588.7	1586.0	1590.8	1589.1
47.5°	1801.1	1792.3	1785.2	1780.5	1778.8	1772.7	1763.9	1771.4	1767.7	1765.0	1759.9
50°	1953.7	1943.9	1943.9	1935.4	1936.8	1932.7	1923.6	1925.6	1915.2	1919.2	1916.5
52.5°	2081.6	2082.3	2085.7	2076.2	2077.9	2077.9	2074.9	2065.1	2067.8	2066.4	2072.8
55°	2244.3	2255.5	2249.4	2251.1	2253.1	2262.6	2269.3	2263.6	2254.1	2261.6	2282.2
57.5°	2528.9	2539.1	2545.1	2549.9	2557.6	2562.0	2598.5	2603.5	2592.7	2615.0	2660.9
60°	3023.9	3036.0	3054.2	3078.2	3083.3	3114.0	3132.9	3155.2	3163.3	3182.5	3231.8
62.5°	3619.0	3646.4	3649.8	3680.1	3703.8	3675.1	3682.5	3709.8	3678.8	3721.3	3723.4
65°	4008.6	4048.5	4049.8	4060.9	4069.7	4042.7	4030.6	4018.4	3989.0	3987.4	4016.7
67°	4075.5	4111.9	4127.1	4132.5	4131.2	4117.3	4097.4	4062.3	4033.9	4017.7	4029.9
67.5°	4056.6	4092.3	4113.6	4118.7	4119.0	4105.5	4087.3	4049.1	4022.5	4004.2	4017.1
70°	3746.0	3829.7	3866.2	3847.2	3858.1	3858.1	3857.4	3822.3	3809.1	3791.5	3784.8
72.5°	3114.7	3172.7	3219.0	3194.3	3197.4	3220.3	3214.9	3218.6	3180.8	3176.8	3114.3
75°	2231.2	2249.7	2234.2	2251.8	2157.2	2123.5	2066.1	1982.4	1960.4	1925.6	1821.7
77.5°	1185.3	1164.4	1122.8	1119.5	1080.6	1050.6	1013.5	989.2	927.7	893.6	815.6
80°	837.2	847.4	863.2	872.7	881.5	888.2	874.4	835.6	784.2	726.8	672.5
82.5°	799.8	813.6	823.1	827.8	824.4	813.6	781.9	744.7	676.2	626.6	567.8
85°	504.4	515.5	496.3	492.2	500.7	432.5	395.0	364.6	295.4	274.8	242.7
87.5°	135.4	142.8	143.1	138.8	136.1	119.8	106.0	93.9	77.6	72.9	59.1
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1
2.5°	541.5	541.2	541.2	540.2	539.5	539.1	538.8	537.8	537.1	537.1	536.8
5°	554.3	553.7	552.6	552.3	551.0	550.3	548.9	548.3	547.2	546.6	546.2
7.5°	572.6	570.9	568.8	569.2	567.2	566.1	565.5	564.1	563.1	562.1	561.8
10°	596.9	596.5	594.5	595.2	591.5	593.2	589.8	590.1	588.1	586.1	585.7
12.5°	627.9	627.6	625.6	623.2	622.5	622.9	620.8	621.2	618.8	618.1	617.5
15°	657.6	657.0	655.9	654.3	653.2	652.9	652.2	651.6	649.5	649.5	647.2
17.5°	683.3	683.6	682.3	680.9	680.3	679.2	678.9	678.9	677.2	675.5	675.9
20°	705.9	706.6	706.6	705.6	705.9	705.2	704.9	705.6	703.9	703.2	702.2
22.5°	731.2	731.2	731.6	732.2	733.3	733.6	733.6	732.9	731.9	731.6	729.5
25°	766.3	765.0	766.7	767.4	767.4	769.0	768.4	768.7	769.0	768.0	767.0
27.5°	810.6	809.2	812.6	815.0	814.6	815.6	817.7	815.3	816.6	817.7	815.3
30°	864.9	868.3	870.7	872.3	871.7	874.7	875.7	875.4	874.4	876.1	876.1
32.5°	934.1	932.4	938.5	942.2	942.6	941.9	943.6	945.6	943.9	946.6	945.3
35°	1016.5	1017.5	1018.9	1022.9	1024.6	1021.9	1024.6	1027.0	1026.3	1026.6	1028.0
37.5°	1122.8	1124.5	1123.2	1123.5	1122.8	1135.7	1137.7	1139.7	1137.4	1135.3	1141.4
40°	1270.4	1270.4	1270.0	1274.4	1267.0	1275.1	1272.7	1278.5	1284.6	1281.2	1290.3
42.5°	1415.5	1423.6	1424.3	1417.9	1423.3	1432.1	1432.1	1435.8	1441.2	1435.8	1444.6
45°	1582.0	1592.1	1590.4	1601.2	1593.1	1603.2	1604.9	1600.2	1612.0	1613.4	1610.0
47.5°	1763.6	1765.6	1766.0	1769.7	1771.4	1779.5	1779.1	1787.9	1785.2	1771.7	1776.4
50°	1919.2	1924.3	1927.0	1929.4	1937.8	1943.5	1951.3	1952.7	1950.6	1946.6	1942.9
52.5°	2074.9	2087.0	2094.8	2115.7	2128.9	2139.3	2152.2	2156.9	2154.5	2153.5	2138.7
55°	2283.2	2312.2	2357.1	2386.1	2417.9	2436.4	2451.3	2458.7	2453.3	2456.0	2425.3
57.5°	2675.5	2743.6	2782.8	2832.4	2888.5	2911.8	2918.2	2944.5	2915.5	2886.4	2863.2
60°	3258.5	3321.3	3392.5	3443.5	3462.4	3526.9	3496.5	3462.4	3431.3	3371.2	3303.4
62.5°	3784.8	3865.8	3902.3	3949.9	3937.0	3931.6	3911.4	3857.0	3790.5	3701.1	3610.6
65°	4044.4	4090.0	4112.6	4128.1	4113.6	4076.1	4009.3	3928.9	3833.7	3717.9	3599.1
67°	4054.9	4075.8	4083.2	4068.4	4036.0	3977.6	3893.2	3779.4	3662.2	3529.6	3395.9
67.5°	4037.7	4051.5	4055.2	4031.9	3993.4	3930.3	3840.2	3718.6	3594.1	3456.3	3321.9
70°	3802.7	3792.6	3759.8	3727.7	3607.6	3522.8	3365.8	3236.2	3063.3	2936.8	2793.3
72.5°	3089.3	3043.1	3011.4	2869.6	2724.4	2640.3	2471.5	2316.6	2158.9	2038.4	1950.3
75°	1734.2	1700.5	1612.4	1537.4	1417.6	1307.8	1229.2	1130.6	1036.1	980.0	938.9
77.5°	783.6	687.0	620.5	536.4	433.5	348.4	258.6	239.0	203.9	195.1	175.9
80°	611.4	542.2	455.1	358.9	253.2	170.1	124.9	106.0	99.6	95.5	93.5
82.5°	510.1	420.3	353.8	251.2	160.7	108.0	81.4	73.6	68.9	65.5	62.5
85°	218.1	172.5	142.1	101.6	72.2	57.1	50.0	45.6	41.2	37.5	35.1
87.5°	51.0	39.2	35.8	30.4	28.7	28.4	28.0	26.7	25.0	23.0	20.6
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):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1
2.5°	536.4	536.1	535.4	534.4	534.4	533.1	528.7	525.6	522.3	520.2	518.2
5°	545.6	545.2	543.5	542.5	541.8	539.1	531.7	526.0	519.9	515.5	512.1
7.5°	560.7	559.7	558.4	557.7	555.7	552.3	541.5	533.4	524.6	517.5	511.8
10°	585.4	583.7	581.7	579.7	580.3	574.9	562.4	550.6	537.8	526.7	518.9
12.5°	615.4	615.4	614.4	613.1	610.7	604.6	587.8	573.9	558.4	544.5	538.8
15°	647.2	645.5	643.8	641.8	641.4	633.3	618.1	602.3	586.1	574.3	567.5
17.5°	673.2	673.8	671.5	670.8	670.1	662.0	645.8	631.6	619.8	607.3	596.5
20°	700.9	699.5	698.8	697.8	697.5	690.7	677.9	669.1	658.7	639.7	611.4
22.5°	730.6	728.9	729.5	727.5	727.2	722.5	713.0	710.3	694.8	654.9	605.6
25°	769.0	766.0	767.0	767.0	767.4	763.0	762.0	757.2	718.1	651.2	582.7
27.5°	815.0	816.3	816.3	816.0	813.6	815.0	819.7	803.5	726.2	631.6	548.3
30°	874.7	875.4	876.1	878.4	873.4	882.1	887.9	836.2	720.1	604.6	505.0
32.5°	947.3	944.6	945.9	947.3	949.0	958.1	954.7	852.8	702.2	567.8	451.4
35°	1027.3	1032.4	1033.7	1036.8	1040.1	1054.0	1015.2	856.1	674.9	518.5	382.8
37.5°	1146.5	1154.6	1154.6	1165.4	1159.0	1175.8	1069.2	848.0	633.3	450.0	305.5
40°	1296.7	1300.4	1304.1	1305.5	1302.1	1300.1	1104.6	828.1	574.9	363.9	223.5
42.5°	1450.0	1448.6	1449.0	1451.3	1442.2	1404.1	1126.6	793.4	502.3	271.8	160.4
45°	1615.1	1609.3	1607.6	1602.9	1594.8	1514.5	1139.1	744.4	406.8	191.1	125.9
47.5°	1775.8	1768.7	1757.9	1744.7	1729.2	1603.2	1137.7	680.9	311.9	136.7	111.1
50°	1940.5	1928.0	1904.7	1891.9	1865.6	1691.4	1129.9	610.4	224.5	113.1	104.0
52.5°	2128.9	2106.6	2085.0	2059.3	2015.8	1799.7	1118.1	531.0	163.7	103.6	99.3
55°	2409.8	2373.3	2337.9	2284.5	2242.3	1944.9	1098.2	445.6	129.3	99.9	96.6
57.5°	2797.0	2734.9	2690.0	2618.1	2550.5	2145.8	1076.9	368.0	115.5	98.9	95.2
60°	3232.8	3139.3	3055.6	2967.1	2890.2	2396.6	1065.8	307.2	112.4	99.9	95.5
62.5°	3506.3	3395.9	3291.2	3183.2	3072.5	2516.4	1017.5	265.4	113.8	104.3	98.2
65°	3471.8	3350.0	3236.2	3104.5	3000.2	2403.3	894.6	224.5	116.1	112.1	105.7
67°	3239.6	3121.4	2991.8	2862.8	2761.5	2188.3	755.2	189.1	118.8	120.9	113.8
67.5°	3177.5	3044.4	2913.8	2795.3	2685.6	2121.8	718.7	180.3	119.5	123.2	116.5
70°	2649.8	2544.5	2391.5	2303.8	2224.4	1720.1	536.1	140.1	121.5	133.7	129.3
72.5°	1854.1	1752.1	1672.1	1624.2	1577.9	1249.8	377.1	111.7	118.5	139.4	135.0
75°	936.5	913.2	885.2	869.6	870.3	726.5	227.2	95.2	111.4	133.7	122.5
77.5°	185.0	180.3	182.3	199.5	196.5	223.8	112.8	80.7	94.9	103.0	88.1
80°	89.5	86.4	83.7	83.0	81.4	78.0	70.9	67.2	77.0	67.9	58.4
82.5°	58.1	54.7	53.3	50.6	51.0	55.4	61.8	64.5	62.5	46.9	39.5
85°	32.7	32.4	31.7	32.4	33.8	44.2	66.2	60.4	50.3	33.1	29.7
87.5°	19.6	18.6	18.9	19.2	19.9	32.7	52.3	43.5	32.1	17.2	17.6
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):

	155°	165°	175°	180°
0°	533.1	533.1	533.1	533.1
2.5°	517.9	516.5	516.5	516.2
5°	509.4	507.4	507.1	507.1
7.5°	508.1	505.4	505.0	504.0
10°	514.2	513.1	513.5	512.5
12.5°	533.4	534.8	536.1	536.1
15°	562.8	561.8	563.4	561.8
17.5°	584.4	575.6	573.6	572.6
20°	585.1	566.8	560.7	559.7
22.5°	564.1	537.1	527.0	525.3
25°	528.7	494.6	481.8	480.4
27.5°	484.1	446.0	427.1	426.4
30°	430.4	385.2	361.2	357.5
32.5°	364.9	311.3	285.9	277.8
35°	289.3	234.3	210.7	210.0
37.5°	216.1	173.2	158.0	157.3
40°	158.3	136.1	130.3	129.3
42.5°	129.3	120.2	117.8	116.8
45°	115.8	112.1	110.7	109.7
47.5°	107.7	105.3	104.3	104.3
50°	101.3	100.6	99.9	99.9
52.5°	96.9	96.6	95.9	95.5
55°	93.2	91.8	92.2	91.8
57.5°	90.8	88.8	88.8	88.8
60°	89.5	85.7	85.7	86.1
62.5°	89.8	84.1	83.7	83.7
65°	92.5	83.0	81.0	81.4
67°	95.9	82.0	78.0	77.6
67.5°	96.9	81.4	77.0	76.6
70°	100.9	79.3	71.9	71.2
72.5°	101.6	76.3	66.8	66.2
75°	94.5	72.2	62.8	61.1
77.5°	73.6	62.1	56.7	56.7
80°	51.7	47.6	40.5	40.2
82.5°	37.8	35.8	29.7	29.0
85°	27.7	26.0	21.9	21.9
87.5°	17.2	16.5	14.2	13.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)