

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: P177421

Luminaire Tested: **VAL-F03-LED-E-U-GL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177421
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-F03-LED-E-U-GL2-8030
Description: VALET TUNNEL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE II W/ GLARE CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6120.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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



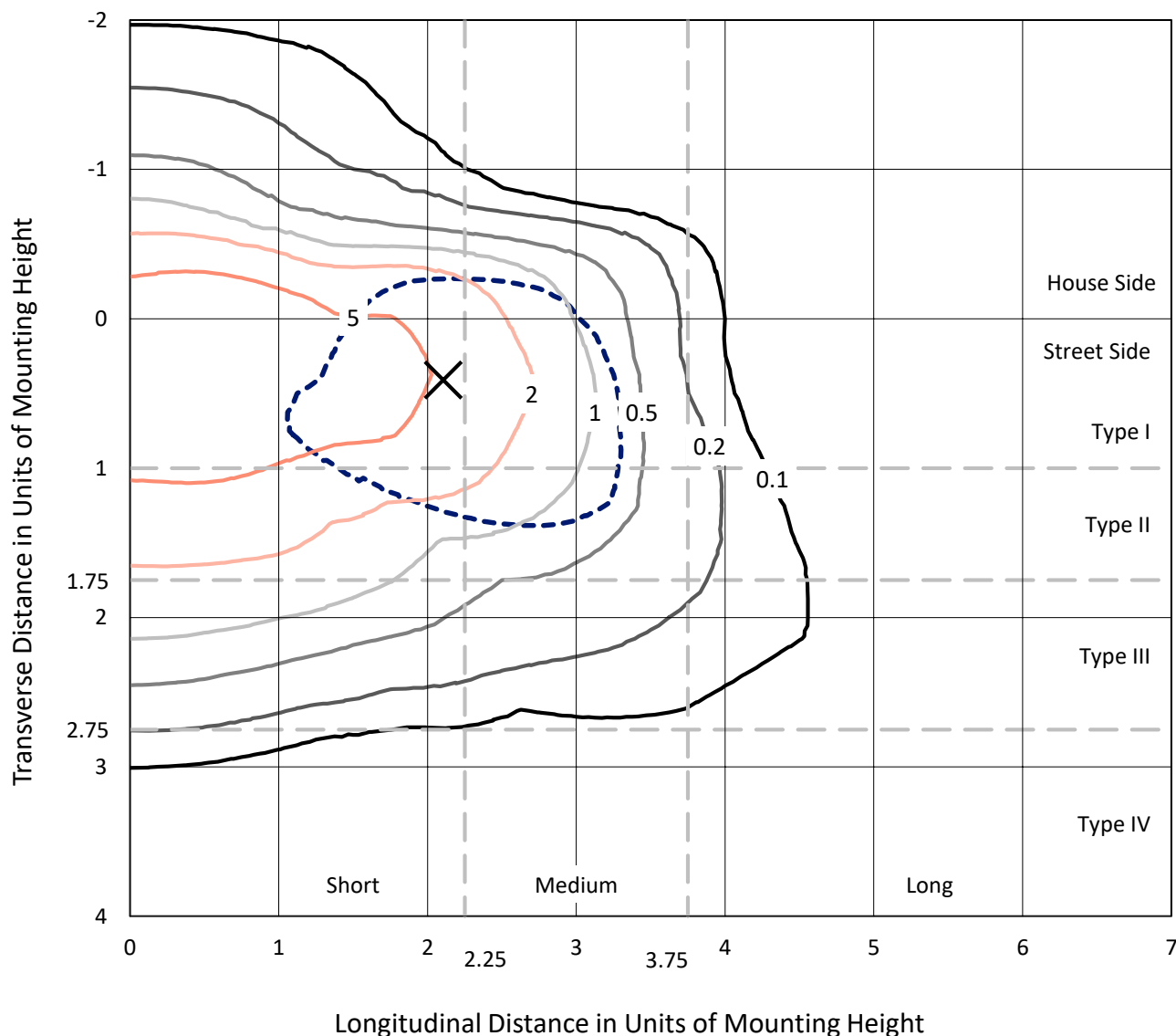
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

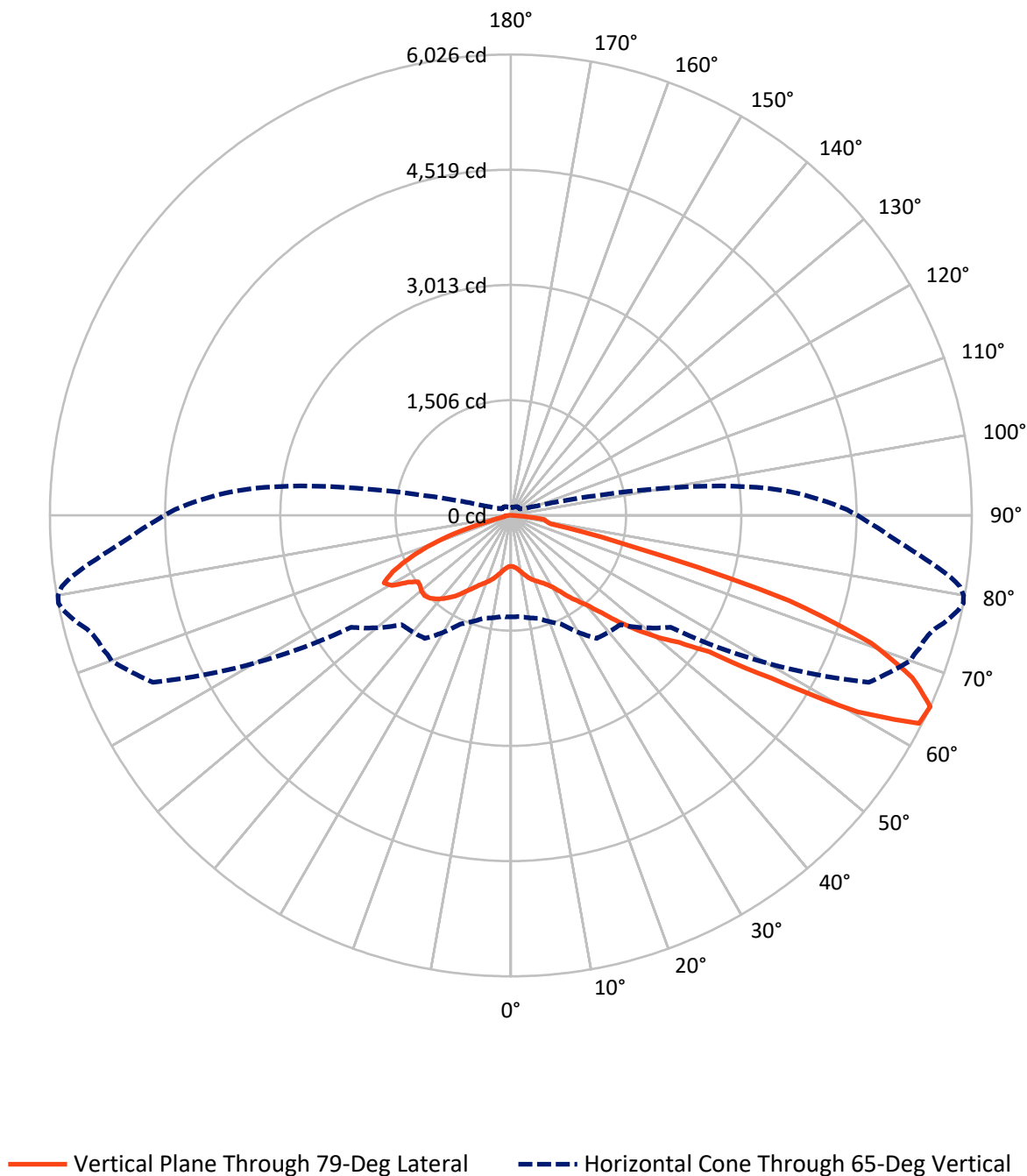


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1389.2	0.0	1389.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	4730.9	0.0	4730.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	6120.1	0.0	6120.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.1
10°-20°	214.9	3.5
20°-30°	370.5	6.1
30°-40°	604.2	9.9
40°-50°	1008.6	16.5
50°-60°	1363.8	22.3
60°-70°	1694.3	27.7
70°-80°	678.5	11.1
80°-90°	119.2	1.9
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°	6120.1	100.0
0°-180°	6120.1	100.0

Coefficient of Utilization



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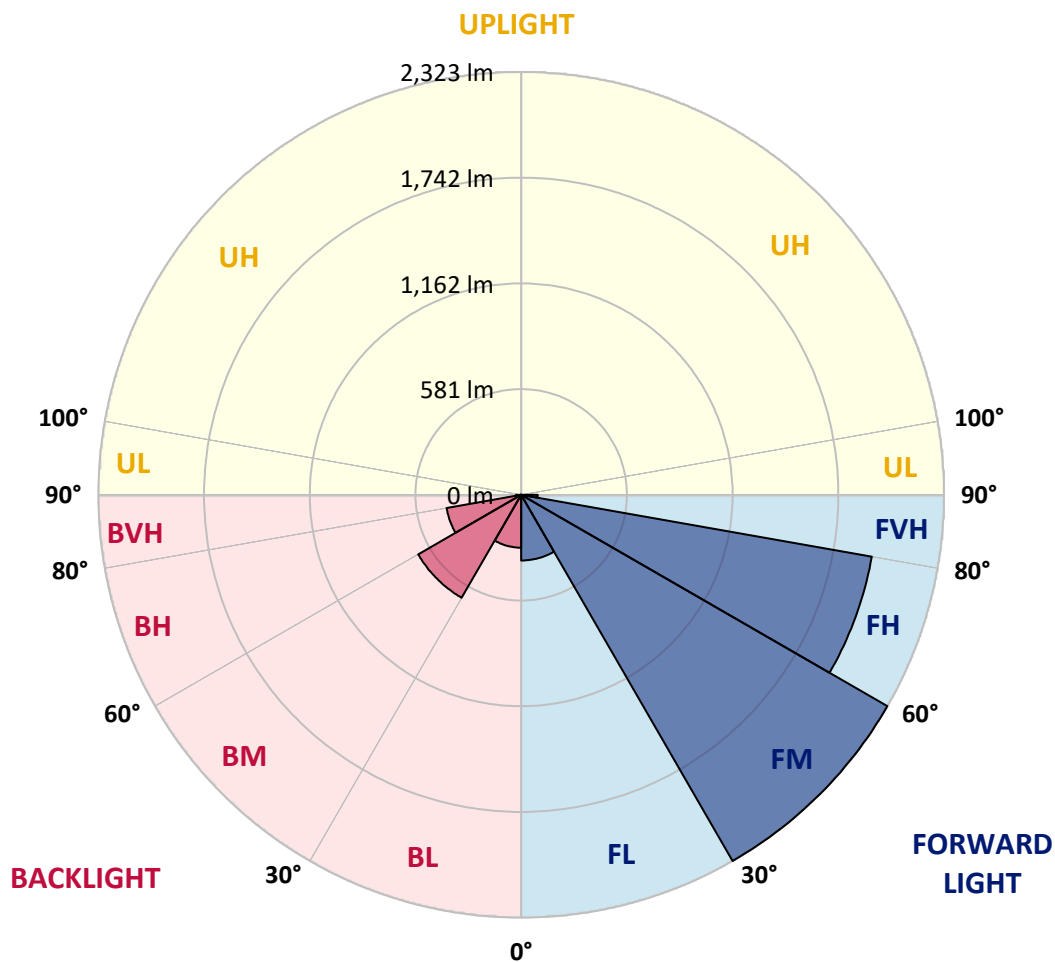
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.9	5.9			
FM	(30°-60°)	2323.3	38.0			
FH	(60°-80°)	1956.3	32.0			G2/5000
FVH	(80°-90°)	90.4	1.5			G1/100
BL	(0°-30°)	290.6	4.7	B1/500		
BM	(30°-60°)	653.4	10.7	B1/1000		
BH	(60°-80°)	416.5	6.8	B1/500		G1/500
BVH	(80°-90°)	28.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1
2.5°	670.1	669.7	671.8	673.5	673.5	674.3	673.9	671.4	671.8	672.6	671.8
5°	677.6	676.0	678.1	680.6	682.2	684.3	686.4	686.8	688.5	688.5	688.1
7.5°	693.9	692.7	695.6	696.5	700.2	703.6	707.7	710.7	712.3	713.2	714.4
10°	722.0	721.1	722.0	723.6	725.3	729.1	736.2	742.4	746.2	746.2	747.9
12.5°	755.8	752.5	753.3	750.0	750.8	758.7	767.1	777.6	783.8	784.7	785.5
15°	782.2	780.5	779.2	774.6	778.0	788.4	801.4	816.4	821.9	826.5	826.0
17.5°	806.8	804.7	801.8	795.5	798.9	815.6	835.2	852.0	861.2	862.0	862.8
20°	836.1	833.6	828.1	815.2	814.3	837.8	864.1	882.1	890.4	894.2	895.4
22.5°	873.3	869.9	859.9	834.8	828.1	855.7	887.1	909.2	918.0	921.8	923.9
25°	920.9	914.3	898.4	859.1	845.3	874.1	911.7	938.5	950.6	954.4	956.9
27.5°	964.0	959.0	939.8	893.4	869.5	898.8	941.8	976.1	992.8	997.4	1001.2
30°	1014.2	1007.1	991.6	942.3	910.5	936.4	991.2	1034.7	1055.1	1055.6	1063.9
32.5°	1132.1	1127.5	1113.2	1058.9	1005.4	1007.1	1058.1	1117.8	1138.3	1141.7	1149.2
35°	1306.8	1305.1	1304.7	1274.6	1234.9	1193.9	1197.7	1243.3	1257.1	1262.5	1265.0
37.5°	1421.8	1436.4	1471.9	1493.7	1483.6	1492.4	1446.4	1390.8	1382.9	1377.0	1379.5
40°	1520.8	1533.8	1605.7	1706.0	1767.1	1810.1	1769.6	1599.0	1535.5	1517.1	1510.0
42.5°	1579.4	1594.0	1696.8	1857.4	2012.9	2114.9	2125.7	1888.7	1727.3	1725.3	1698.5
45°	1611.1	1625.8	1748.7	1964.8	2184.7	2368.6	2463.9	2245.3	2008.3	1990.7	1953.5
47.5°	1604.9	1618.7	1746.6	2004.5	2286.3	2537.1	2727.7	2605.7	2332.3	2290.0	2238.6
50°	1528.4	1538.4	1672.6	1939.7	2259.1	2607.3	2908.3	2936.3	2698.9	2641.6	2564.7
52.5°	1449.3	1467.3	1578.5	1824.8	2135.8	2563.8	3016.2	3237.3	3041.3	3002.0	2903.3
55°	1406.7	1420.9	1511.6	1721.9	2005.8	2415.4	3060.9	3521.2	3457.2	3441.3	3371.5
57.5°	1405.0	1418.8	1491.2	1659.6	1900.0	2260.8	3073.9	3959.7	4147.4	4151.6	4131.5
60°	1473.6	1487.8	1548.4	1689.7	1867.4	2128.2	3027.5	4581.7	4996.4	5033.2	5094.7
62.5°	1483.2	1489.9	1563.1	1753.7	1986.1	2029.2	2836.4	5099.7	5580.0	5613.9	5647.7
65°	1326.9	1326.4	1391.2	1566.8	1961.4	2019.1	2549.2	5163.2	5556.6	5577.1	5619.3
67.5°	989.5	981.1	1017.9	1178.5	1556.4	2021.6	2208.9	4683.7	5123.5	5162.4	5176.6
70°	510.0	523.0	548.1	646.3	988.2	1627.4	1897.5	3951.7	4497.7	4512.3	4562.9
72.5°	209.4	204.0	221.1	271.7	494.5	1075.6	1569.7	3118.6	3714.7	3704.7	3713.9
75°	116.6	118.3	123.3	141.7	240.4	540.1	1348.6	2207.7	2526.2	2353.2	2300.9
77.5°	93.6	94.5	94.9	98.2	131.3	288.0	1035.1	1453.9	1270.4	1179.7	1145.0
80°	68.6	73.2	78.2	79.0	90.3	163.5	567.7	1224.0	1072.3	997.0	935.2
82.5°	55.2	57.3	68.1	69.8	71.9	97.4	257.1	1149.6	1068.1	991.2	905.9
85°	33.0	36.8	55.6	56.0	56.9	59.4	142.1	468.2	582.3	514.6	471.1
87.5°	11.7	15.0	27.6	23.0	29.3	24.2	62.3	156.8	193.1	183.5	162.6
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1
2.5°	671.4	671.4	672.2	671.8	671.8	671.8	671.8	671.0	671.0	669.7	670.5
5°	688.1	687.7	688.1	688.5	688.1	688.9	688.5	688.1	688.5	688.1	688.5
7.5°	714.9	712.8	715.7	714.0	713.6	716.1	714.9	716.1	716.5	716.1	715.7
10°	748.7	750.0	750.0	750.0	749.1	751.6	752.1	752.9	753.3	755.0	755.0
12.5°	787.6	788.0	789.7	789.3	790.1	793.0	795.1	795.5	796.0	797.2	795.5
15°	829.4	830.2	830.2	834.0	832.7	836.9	838.2	838.2	838.6	843.6	844.0
17.5°	866.6	866.6	869.9	869.9	873.3	874.1	877.9	878.3	880.0	884.6	885.0
20°	898.0	899.6	901.7	904.2	905.5	908.0	910.5	913.0	915.1	918.9	919.3
22.5°	927.6	929.3	932.7	934.3	937.2	938.9	941.0	943.9	947.3	952.3	953.6
25°	961.9	963.6	967.3	969.9	973.2	975.7	979.5	983.2	985.3	990.3	994.1
27.5°	1005.4	1010.4	1015.4	1016.7	1019.2	1025.0	1030.1	1035.1	1039.7	1042.2	1046.8
30°	1068.9	1068.9	1079.4	1079.4	1084.0	1089.4	1092.8	1098.2	1106.6	1109.1	1114.9
32.5°	1154.2	1156.3	1160.1	1171.4	1179.7	1182.2	1184.7	1192.7	1197.7	1204.0	1211.1
35°	1275.9	1278.0	1280.0	1290.9	1300.5	1303.0	1305.5	1310.6	1318.9	1329.8	1326.4
37.5°	1385.0	1386.2	1392.9	1405.0	1410.5	1417.2	1419.3	1428.4	1433.0	1443.1	1443.5
40°	1516.2	1513.3	1517.1	1530.9	1539.2	1538.8	1545.5	1562.2	1565.6	1570.2	1581.9
42.5°	1699.3	1688.5	1700.2	1704.8	1717.3	1725.3	1738.6	1749.9	1757.9	1775.4	1783.8
45°	1935.9	1924.7	1934.3	1936.4	1962.3	1970.2	1990.3	2005.3	2022.5	2042.5	2048.4
47.5°	2205.6	2184.7	2173.0	2185.9	2216.9	2229.8	2249.5	2263.7	2281.7	2292.1	2288.8
50°	2517.9	2467.7	2444.3	2437.6	2459.8	2478.1	2508.7	2515.4	2523.7	2523.3	2523.7
52.5°	2866.1	2813.8	2764.9	2731.1	2727.7	2752.4	2759.9	2761.6	2759.1	2740.3	2728.6
55°	3320.9	3317.2	3265.7	3195.5	3190.9	3188.0	3144.1	3138.7	3128.6	3099.8	3060.1
57.5°	4146.1	4187.9	4154.1	4152.4	4115.6	4091.4	4010.7	3970.6	3928.3	3850.2	3787.9
60°	5100.1	5160.7	5194.2	5208.8	5280.7	5280.7	5214.6	5157.8	5089.2	4970.1	4853.9
62.5°	5674.5	5727.6	5776.9	5854.3	5945.8	5986.4	5989.7	5939.1	5852.6	5716.7	5552.4
65°	5638.1	5677.4	5737.2	5828.3	5904.0	5976.7	6025.6	6010.2	5944.1	5808.3	5629.3
67.5°	5226.4	5283.6	5361.0	5445.0	5515.2	5583.8	5662.8	5668.6	5651.1	5521.9	5360.1
70°	4590.9	4664.5	4713.4	4819.2	4851.0	4920.3	4999.8	5037.8	5009.4	4909.9	4815.0
72.5°	3729.8	3787.9	3796.2	3750.2	3766.1	3783.3	3802.5	3713.5	3679.2	3546.2	3485.2
75°	2261.6	2185.1	2120.7	2056.8	1865.7	1798.0	1693.9	1488.6	1465.2	1324.4	1226.5
77.5°	1075.6	1043.4	985.3	887.9	758.3	634.2	526.3	427.7	390.9	321.9	274.2
80°	900.5	862.0	809.7	737.4	646.7	556.4	471.1	398.0	324.4	264.2	211.1
82.5°	826.0	759.2	685.6	623.3	559.3	497.9	440.6	374.6	335.7	270.9	221.1
85°	417.6	365.8	296.4	249.6	210.7	171.4	148.4	126.7	112.9	89.9	78.2
87.5°	140.0	114.5	85.3	72.3	65.2	56.0	51.4	48.9	47.7	42.2	37.6
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1
2.5°	670.5	670.5	670.5	670.5	670.1	670.1	670.1	670.1	670.1	670.1	670.5
5°	687.7	687.7	688.1	689.4	686.8	687.7	688.5	687.3	688.5	687.3	688.9
7.5°	715.3	716.5	715.7	717.4	716.5	719.0	717.4	716.1	716.9	716.9	717.4
10°	754.1	755.8	754.6	755.4	755.4	757.1	755.0	755.4	755.8	755.0	755.4
12.5°	797.2	798.0	797.6	800.1	798.9	800.1	798.9	800.5	801.4	802.2	802.2
15°	844.0	844.9	847.4	847.0	849.5	848.6	849.0	847.0	851.1	848.6	849.5
17.5°	887.1	886.7	890.0	891.3	891.7	892.1	893.4	891.7	892.1	893.4	892.5
20°	920.5	923.5	924.3	927.6	930.1	931.0	930.6	931.8	933.5	931.8	931.8
22.5°	956.1	960.2	961.5	963.6	966.1	966.5	969.0	970.3	971.1	970.7	971.1
25°	998.7	1001.6	1004.6	1008.7	1011.7	1012.1	1014.2	1015.8	1016.3	1015.8	1018.3
27.5°	1051.0	1054.7	1058.5	1063.5	1066.8	1067.7	1072.3	1072.3	1074.8	1076.0	1076.9
30°	1118.3	1119.5	1129.1	1134.1	1132.9	1138.7	1145.0	1144.6	1147.5	1148.4	1150.4
32.5°	1216.1	1216.1	1224.4	1230.7	1237.4	1235.3	1244.9	1243.3	1247.9	1250.4	1249.1
35°	1334.8	1339.0	1345.3	1349.0	1356.1	1359.9	1366.6	1370.3	1372.4	1372.0	1367.4
37.5°	1457.3	1464.0	1466.5	1475.7	1482.8	1489.1	1489.9	1485.7	1487.4	1479.0	1476.5
40°	1597.3	1607.0	1612.8	1626.6	1625.8	1633.7	1634.5	1622.4	1620.3	1609.5	1598.2
42.5°	1793.0	1806.4	1811.0	1821.4	1813.0	1816.8	1795.9	1790.9	1774.2	1756.6	1731.1
45°	2056.8	2050.1	2053.0	2050.1	2027.9	2011.6	1994.5	1969.8	1945.1	1911.3	1874.9
47.5°	2288.8	2292.1	2270.4	2256.6	2220.6	2197.6	2166.3	2123.2	2093.1	2047.6	1999.5
50°	2514.1	2476.9	2446.4	2414.6	2382.8	2340.6	2293.4	2255.3	2211.4	2154.6	2095.6
52.5°	2697.2	2649.1	2612.3	2567.2	2524.1	2477.3	2428.0	2372.8	2315.1	2258.3	2185.5
55°	3021.6	2951.8	2904.6	2825.5	2776.6	2711.0	2672.5	2601.1	2520.8	2445.5	2368.2
57.5°	3717.6	3613.1	3559.2	3514.5	3438.4	3330.5	3262.0	3144.5	3030.0	2949.7	2820.9
60°	4766.1	4659.9	4570.4	4464.7	4348.0	4201.7	4136.5	3998.1	3834.3	3701.8	3531.6
62.5°	5419.5	5272.8	5127.7	4979.3	4862.2	4747.7	4612.7	4473.0	4310.8	4130.7	3944.6
65°	5445.8	5269.8	5096.3	4945.0	4807.9	4659.1	4532.4	4390.7	4220.1	4034.5	3841.4
67.5°	5172.4	4975.5	4789.5	4623.5	4466.8	4328.8	4196.3	4062.9	3880.3	3724.7	3527.0
70°	4627.7	4448.0	4279.5	4090.5	3970.6	3815.5	3686.3	3545.8	3415.0	3269.5	3084.3
72.5°	3399.1	3263.6	3071.3	2991.1	2926.7	2762.4	2666.3	2654.6	2571.0	2396.6	2258.3
75°	1264.2	1076.0	1019.2	1053.0	996.6	1015.4	1008.3	968.2	969.9	940.2	905.1
77.5°	247.5	229.9	216.1	219.9	204.4	197.7	211.9	207.8	200.2	202.3	199.0
80°	168.5	142.6	129.2	124.2	117.9	115.0	114.1	112.9	110.4	109.1	105.3
82.5°	166.0	123.3	97.4	83.6	78.6	76.1	74.0	73.6	72.7	72.3	73.6
85°	66.1	53.5	48.9	44.7	43.5	42.2	42.2	41.8	41.4	42.2	43.9
87.5°	32.2	27.2	24.7	22.6	21.7	21.3	21.3	21.7	22.2	23.8	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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1
2.5°	669.7	670.1	669.3	669.7	669.3	668.4	668.0	669.3	668.9	668.4	668.4
5°	686.8	688.5	687.7	686.8	686.8	686.4	686.4	686.4	686.0	686.4	685.2
7.5°	716.5	716.1	716.1	715.3	714.4	715.3	714.9	713.6	714.0	713.2	711.9
10°	754.6	753.3	755.4	755.4	753.7	753.3	752.5	751.2	751.2	750.0	750.0
12.5°	799.7	798.5	801.4	799.3	796.8	796.4	793.9	793.0	794.3	793.9	793.0
15°	845.7	846.1	847.4	847.0	844.0	844.0	840.7	841.1	838.6	837.8	835.7
17.5°	890.4	890.8	889.6	889.6	887.5	886.2	882.5	882.9	881.2	877.9	875.4
20°	930.6	930.1	927.2	929.7	925.5	924.7	921.4	918.0	918.9	915.5	910.5
22.5°	969.9	969.0	968.2	966.9	964.8	964.0	960.2	959.8	955.6	950.6	946.4
25°	1015.4	1015.0	1013.8	1014.2	1010.0	1010.4	1003.7	1002.0	999.5	994.1	990.8
27.5°	1074.4	1074.4	1071.0	1069.8	1068.5	1066.8	1061.0	1056.8	1050.5	1044.3	1037.6
30°	1146.7	1145.9	1145.0	1141.7	1137.1	1134.6	1124.1	1117.4	1109.1	1097.4	1087.3
32.5°	1249.9	1242.8	1237.0	1229.5	1221.9	1214.0	1197.7	1186.4	1173.0	1154.2	1138.3
35°	1364.9	1352.8	1346.5	1331.0	1316.8	1300.9	1281.3	1258.3	1239.9	1215.2	1189.3
37.5°	1459.8	1450.6	1433.9	1416.3	1396.3	1366.2	1344.0	1319.3	1287.1	1260.0	1228.6
40°	1576.9	1555.9	1532.1	1502.9	1475.3	1441.4	1410.9	1375.4	1336.1	1296.8	1255.8
42.5°	1699.8	1667.6	1628.3	1594.4	1552.6	1508.3	1468.6	1420.5	1370.3	1317.7	1262.9
45°	1825.2	1785.5	1733.2	1685.1	1627.0	1571.4	1514.6	1448.9	1380.4	1310.1	1241.2
47.5°	1940.1	1882.0	1822.7	1757.9	1691.0	1619.5	1538.8	1452.7	1362.4	1270.0	1183.9
50°	2030.4	1957.7	1882.9	1808.0	1726.1	1633.3	1531.7	1419.3	1308.1	1197.3	1098.2
52.5°	2110.3	2028.8	1936.8	1844.0	1742.8	1628.7	1501.6	1369.1	1233.6	1111.2	1000.0
55°	2264.9	2162.5	2041.3	1921.7	1793.8	1650.0	1491.6	1329.4	1173.4	1040.1	921.8
57.5°	2685.1	2546.7	2359.0	2193.0	2030.8	1821.4	1598.2	1398.3	1199.8	1042.2	910.5
60°	3346.8	3121.5	2906.6	2653.7	2391.2	2104.0	1804.7	1535.5	1293.4	1095.7	937.2
62.5°	3730.6	3492.7	3216.4	2910.0	2569.7	2219.8	1876.2	1561.8	1296.3	1081.1	905.5
65°	3626.9	3387.8	3083.9	2770.4	2408.3	2050.5	1709.4	1407.5	1150.0	951.0	783.0
67.5°	3319.2	3069.3	2783.7	2435.9	2089.8	1758.3	1447.3	1163.0	935.2	749.5	601.1
70°	2871.5	2649.1	2374.1	2053.4	1717.7	1419.7	1157.6	901.3	708.6	538.4	421.4
72.5°	2131.2	1934.3	1762.5	1494.5	1248.7	1015.0	801.4	627.1	461.1	348.6	268.4
75°	894.6	828.1	800.1	701.9	610.3	500.4	376.7	300.2	243.3	206.9	164.3
77.5°	217.0	217.0	204.0	191.0	175.6	158.9	140.5	125.4	117.9	111.2	105.8
80°	105.3	104.5	101.2	100.7	97.8	94.1	92.0	89.0	87.8	86.1	85.3
82.5°	74.0	73.6	72.3	74.0	73.6	75.2	76.1	76.5	76.5	76.9	77.3
85°	46.8	48.5	51.8	56.0	59.8	64.4	68.6	71.9	74.4	76.5	78.2
87.5°	29.7	33.9	36.4	42.6	48.9	56.0	64.0	67.3	70.2	70.6	68.1
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1	665.1
2.5°	668.4	668.0	668.9	668.0	668.0	667.6	666.4	665.1	663.8	663.4	662.2
5°	684.8	684.8	685.6	683.9	684.3	682.7	678.9	674.7	671.0	667.6	663.8
7.5°	712.3	711.1	711.5	711.1	710.3	706.9	698.5	688.1	678.1	667.6	659.3
10°	749.1	746.6	746.6	745.8	744.5	739.9	722.4	701.5	680.6	661.8	648.0
12.5°	790.1	790.5	787.2	785.1	783.0	773.4	747.0	713.6	680.6	650.5	628.3
15°	832.7	832.3	828.6	827.3	822.7	808.5	768.8	719.9	672.6	628.3	595.3
17.5°	871.2	869.5	865.8	863.3	858.2	839.4	783.4	716.9	651.7	593.6	552.2
20°	906.3	904.2	900.9	896.3	891.3	864.1	788.8	701.9	618.7	552.2	510.4
22.5°	942.7	938.1	934.3	928.1	922.6	886.2	785.1	675.1	581.1	506.2	461.5
25°	983.2	977.8	969.9	962.3	954.0	904.2	774.6	641.7	535.9	456.5	411.4
27.5°	1027.1	1019.2	1008.7	999.1	985.7	917.6	756.7	604.5	486.6	407.2	360.4
30°	1073.5	1058.9	1045.9	1031.3	1014.2	923.9	730.7	558.5	432.3	357.0	310.2
32.5°	1118.7	1099.0	1079.8	1058.5	1035.1	921.4	693.9	504.2	377.9	310.2	270.9
35°	1164.7	1136.2	1109.5	1080.6	1052.2	908.8	643.4	444.0	326.5	271.3	242.9
37.5°	1196.0	1160.5	1124.9	1090.3	1056.0	881.6	576.1	376.7	280.1	243.3	222.8
40°	1211.9	1168.4	1124.9	1081.9	1039.7	836.5	497.5	315.2	247.1	222.4	207.8
42.5°	1207.3	1153.4	1099.4	1048.4	996.6	764.6	412.2	264.6	224.1	206.1	193.1
45°	1169.3	1104.9	1043.4	989.5	924.7	672.2	338.6	233.3	206.5	192.7	180.6
47.5°	1097.8	1025.9	950.6	889.6	829.0	565.2	281.8	213.6	191.0	179.8	167.6
50°	1006.6	923.5	848.2	782.2	722.8	465.3	242.9	196.9	178.5	168.9	155.9
52.5°	906.3	816.9	748.3	678.9	620.8	388.4	215.7	178.5	166.4	156.3	145.9
55°	823.1	740.4	670.5	600.7	542.2	339.9	193.1	164.3	155.1	144.6	136.3
57.5°	801.0	706.5	630.4	564.4	504.2	310.2	176.8	151.3	145.1	137.1	127.9
60°	810.2	706.1	620.8	548.5	485.3	286.4	164.7	142.6	137.5	130.4	120.8
62.5°	777.1	667.2	581.1	504.2	444.4	256.3	155.9	138.4	135.0	125.4	114.5
65°	662.2	561.4	478.7	412.2	360.8	215.7	148.8	142.1	138.8	122.1	110.4
67.5°	504.2	420.1	353.7	303.9	266.7	178.5	147.2	154.7	148.0	123.7	109.1
70°	348.6	285.1	242.5	212.4	189.0	150.5	152.6	168.5	158.9	129.2	116.2
72.5°	221.1	184.8	163.9	152.6	141.3	127.1	151.3	166.8	153.8	130.0	116.2
75°	141.7	126.7	119.6	115.4	112.0	110.8	133.4	137.1	123.7	112.9	108.3
77.5°	100.3	97.8	96.6	96.1	96.6	99.5	110.4	103.3	89.9	90.3	92.8
80°	84.9	84.9	84.0	84.4	85.3	86.5	88.2	76.1	69.0	74.4	82.8
82.5°	77.8	79.0	79.8	80.7	81.9	80.3	74.8	57.7	55.6	72.3	81.1
85°	79.0	79.0	79.4	80.3	80.7	72.3	62.3	43.5	42.6	81.1	76.5
87.5°	67.7	66.9	64.0	61.9	58.9	49.7	41.4	24.2	25.1	50.2	53.5
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):

	175°	180°
0°	665.1	665.1
2.5°	661.8	661.8
5°	661.8	661.8
7.5°	656.3	654.7
10°	640.4	638.3
12.5°	616.2	614.1
15°	579.0	576.5
17.5°	532.6	528.4
20°	484.1	478.2
22.5°	435.6	431.0
25°	385.9	381.7
27.5°	336.9	332.8
30°	291.8	290.1
32.5°	258.3	256.7
35°	233.7	232.8
37.5°	217.0	216.1
40°	202.3	201.5
42.5°	189.0	187.7
45°	175.6	176.0
47.5°	162.2	161.8
50°	150.5	150.5
52.5°	140.9	140.5
55°	132.1	131.7
57.5°	123.3	122.9
60°	115.8	114.5
62.5°	108.7	107.9
65°	104.1	103.7
67.5°	100.7	99.5
70°	99.9	96.6
72.5°	97.4	93.2
75°	91.6	89.5
77.5°	80.7	78.2
80°	62.3	57.7
82.5°	52.3	45.1
85°	38.5	35.5
87.5°	28.0	22.2
90°	0.0	0.0

(END OF REPORT)