

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: INVUE

Report Number: P151074

Luminaire Tested: **VWM-F02-LED-E1-SL3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151074
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F02-LED-E1-SL3-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4578.5 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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: 25 FT

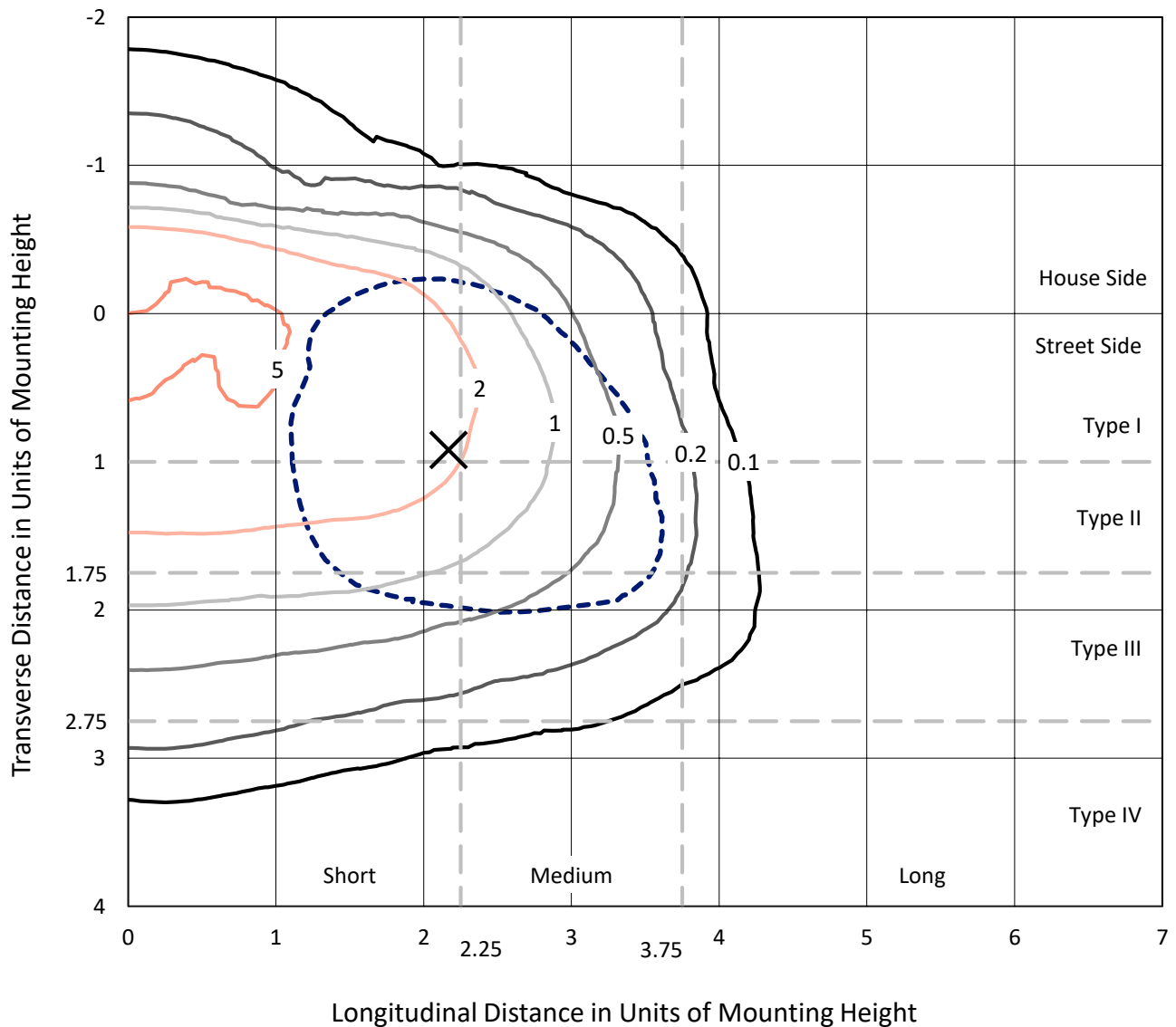


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Iso-Footcandle Lines of Horizontal Illumination

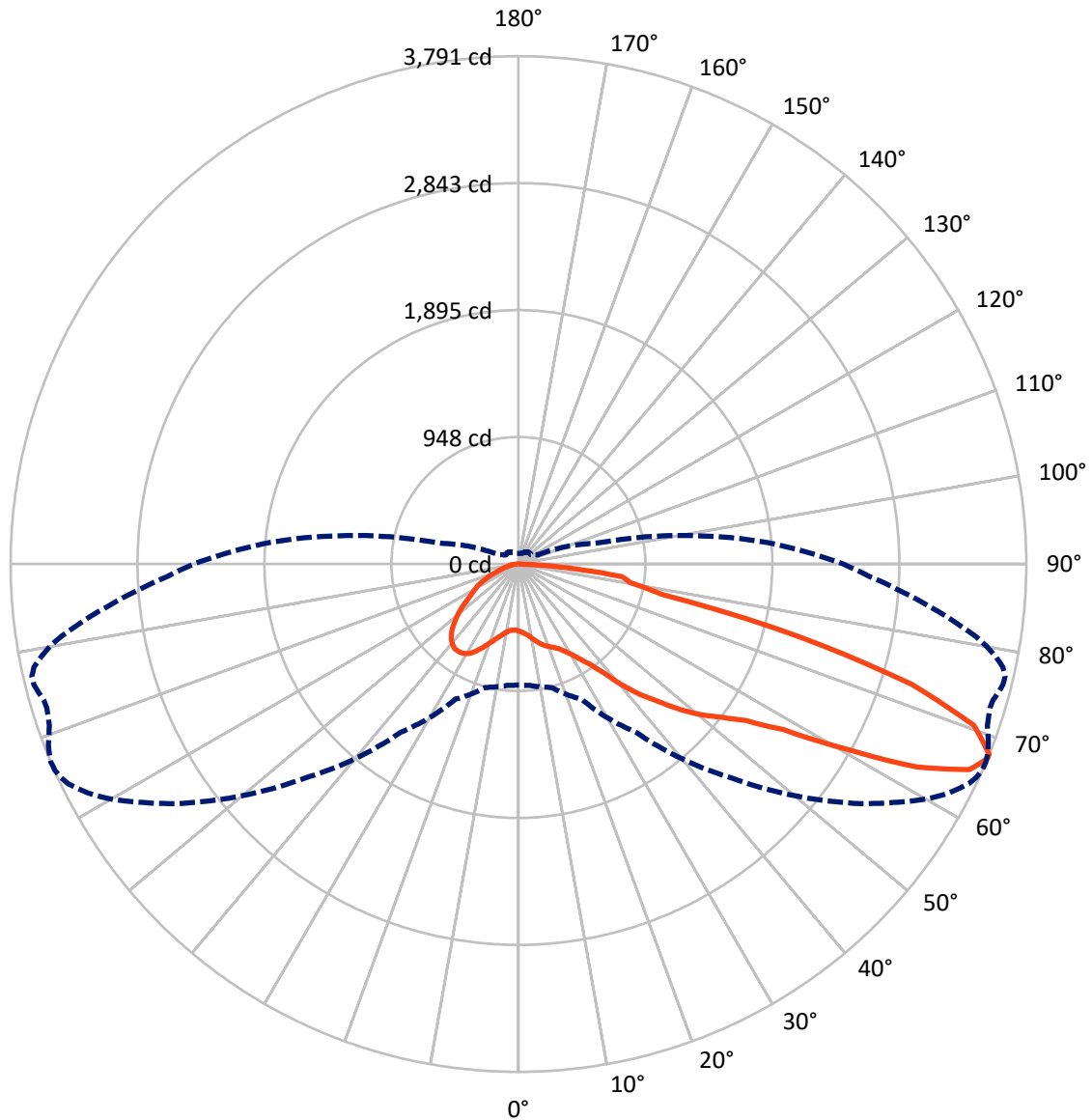
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.6	0.0	1056.6
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	3521.9	0.0	3521.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	4578.5	0.0	4578.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.1
10°-20°	170.7	3.7
20°-30°	301.5	6.6
30°-40°	432.8	9.5
40°-50°	657.3	14.4
50°-60°	967.7	21.1
60°-70°	1286.0	28.1
70°-80°	629.2	13.7
80°-90°	83.5	1.8
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°	4578.5	100.0
0°-180°	4578.5	100.0



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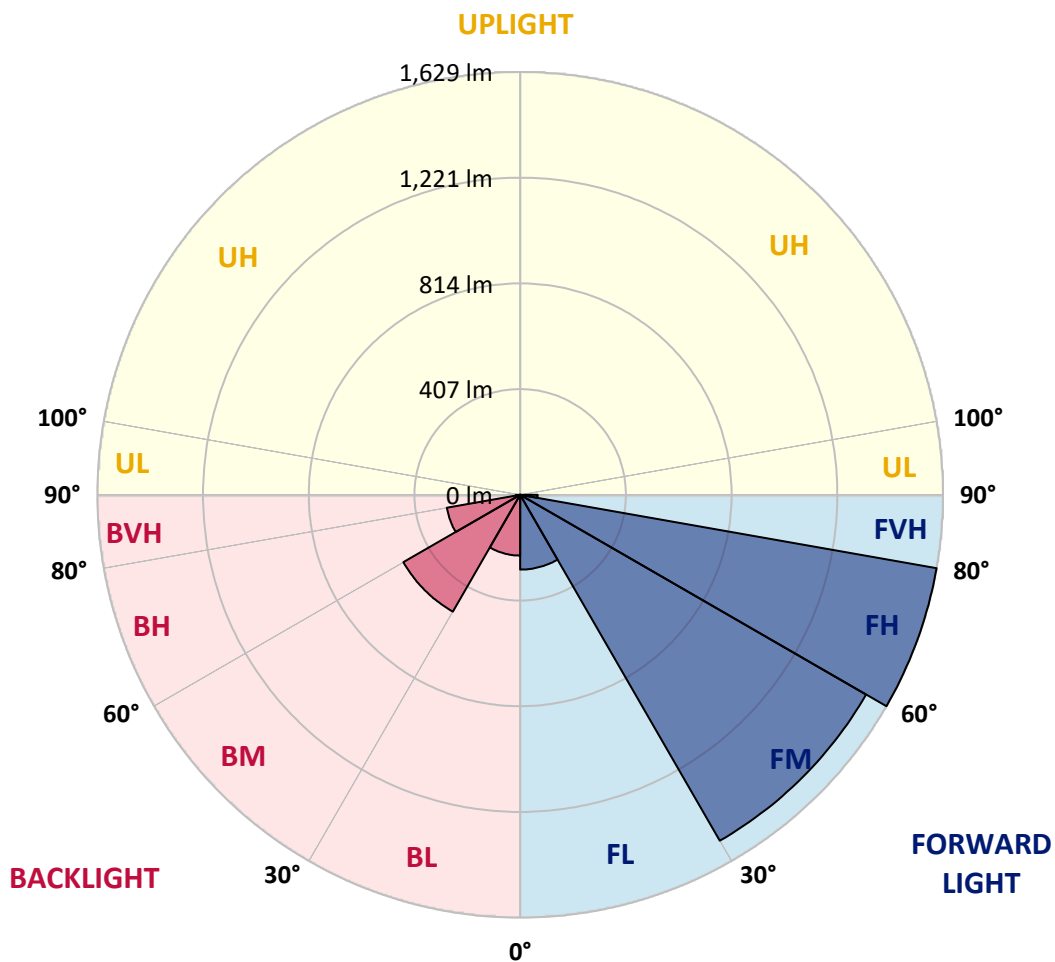
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.0	6.3			
FM	(30°-60°)	1538.3	33.6			
FH	(60°-80°)	1628.5	35.6			G1/1800
FVH	(80°-90°)	67.1	1.5			G1/100
BL	(0°-30°)	234.0	5.1	B1/500		
BM	(30°-60°)	519.4	11.3	B1/1000		
BH	(60°-80°)	286.7	6.3	B1/500		G1/500
BVH	(80°-90°)	16.4	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°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	523.8	524.3	523.3	522.8	519.8	516.7	514.7	512.2	512.2	512.2	511.2
5°	553.4	551.4	552.9	549.4	543.4	537.8	532.3	527.8	526.8	526.8	524.8
7.5°	589.1	586.6	585.6	580.6	571.5	563.5	552.4	547.9	545.4	544.4	543.4
10°	632.3	632.3	625.8	617.3	605.2	591.1	579.1	571.0	570.5	570.5	566.0
12.5°	676.6	677.6	669.0	660.5	640.9	622.3	608.2	599.2	598.7	596.7	594.1
15°	717.3	714.8	709.3	696.7	675.1	653.0	635.4	626.3	624.3	622.3	620.8
17.5°	751.0	748.5	741.4	725.3	702.7	676.6	655.0	645.4	644.4	643.4	641.4
20°	772.1	770.1	760.0	741.4	717.8	691.2	668.0	661.5	659.5	659.5	658.5
22.5°	784.2	781.1	766.6	741.9	718.8	699.2	680.1	676.1	674.6	675.1	675.1
25°	790.2	787.7	767.1	731.9	709.8	704.2	696.2	693.7	694.2	694.7	695.7
27.5°	791.2	787.7	763.5	718.8	698.2	713.8	719.3	723.3	723.3	725.3	728.9
30°	783.7	779.6	756.5	708.8	693.2	732.9	755.0	765.6	769.6	768.6	776.6
32.5°	770.6	768.1	749.5	708.8	707.2	770.6	809.8	824.9	826.9	827.9	836.9
35°	766.1	765.6	757.5	732.9	751.0	836.9	896.7	908.3	910.8	910.8	917.4
37.5°	765.1	767.6	776.6	778.1	827.9	935.5	1013.9	1031.5	1031.5	1036.5	1036.5
40°	765.1	770.6	804.8	845.5	921.9	1063.6	1172.2	1192.3	1192.3	1197.8	1194.8
42.5°	794.7	802.8	859.0	936.5	1040.5	1195.8	1320.5	1343.1	1344.6	1343.1	1347.6
45°	853.0	860.1	928.4	1039.5	1162.7	1337.6	1462.2	1489.4	1483.9	1487.4	1488.9
47.5°	930.4	941.5	1019.4	1152.1	1281.8	1468.8	1621.1	1645.7	1643.7	1645.2	1638.7
50°	1012.9	1024.4	1111.4	1263.7	1400.4	1574.3	1748.8	1785.5	1781.9	1784.5	1788.0
52.5°	1085.8	1092.8	1176.7	1347.6	1490.4	1672.9	1846.8	1892.5	1900.6	1901.6	1904.1
55°	1129.0	1137.5	1214.4	1389.4	1555.7	1769.4	1958.9	2028.2	2043.8	2047.8	2058.9
57.5°	1144.1	1153.1	1223.0	1395.4	1591.4	1859.9	2115.2	2237.3	2250.4	2272.0	2307.2
60°	1143.6	1153.1	1213.9	1381.8	1627.6	1971.9	2358.5	2563.1	2629.4	2651.5	2701.8
62.5°	1096.8	1107.9	1169.7	1340.6	1673.9	2115.2	2720.4	3035.1	3120.5	3160.7	3215.0
65°	994.3	1002.3	1060.1	1236.0	1660.8	2256.5	3023.0	3415.6	3493.5	3552.3	3649.3
67°	903.3	908.3	953.6	1112.4	1533.1	2261.5	3118.5	3510.1	3578.0	3640.3	3740.3
67.5°	880.2	890.7	925.9	1074.7	1485.4	2232.8	3112.0	3495.5	3564.9	3629.7	3735.3
70°	716.3	731.4	749.0	849.0	1167.7	1878.4	2881.3	3243.2	3304.0	3364.3	3511.6
72.5°	441.8	469.0	472.5	535.8	760.0	1298.4	2331.3	2735.0	2780.7	2824.0	2974.8
75°	260.4	264.4	277.0	328.2	445.9	776.1	1564.3	2031.8	2074.0	2095.1	2213.2
77.5°	145.3	149.3	159.8	204.1	342.8	522.8	910.8	1193.8	1219.5	1246.1	1227.0
80°	60.3	65.8	70.9	82.4	160.3	412.7	626.3	759.0	775.6	791.2	810.8
82.5°	29.2	31.2	38.2	43.7	58.3	169.4	491.1	658.0	677.6	700.2	746.0
85°	13.6	15.1	21.1	25.1	28.1	42.7	164.4	320.2	347.3	352.4	361.4
87.5°	1.0	1.0	2.5	3.5	5.0	5.5	17.1	24.1	27.1	24.6	31.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	510.7	510.2	509.2	509.2	508.7	508.7	508.7	507.7	507.7	507.7	507.2
5°	524.3	523.8	522.3	522.3	521.3	521.3	519.8	519.3	518.2	518.2	517.7
7.5°	541.9	541.4	539.4	539.4	537.8	537.3	536.3	534.8	534.8	533.8	532.8
10°	566.0	564.5	564.0	561.5	562.0	561.0	560.0	558.5	557.5	556.4	555.4
12.5°	593.1	593.1	590.6	589.1	590.1	589.1	587.1	586.6	585.1	585.1	583.6
15°	618.8	618.8	617.8	615.8	616.3	614.8	614.3	613.2	611.2	611.7	611.2
17.5°	640.9	640.9	639.4	638.4	638.4	636.9	637.4	636.4	635.4	634.9	633.4
20°	658.5	658.5	657.5	656.5	657.0	657.0	655.5	655.5	655.5	654.5	654.5
22.5°	675.6	676.1	676.1	676.1	676.6	677.1	676.6	677.6	677.1	678.1	678.1
25°	698.2	699.7	700.7	700.7	703.2	703.7	704.2	705.7	705.7	707.2	707.7
27.5°	731.9	732.9	736.9	737.9	738.4	742.4	742.9	744.9	747.0	747.5	748.0
30°	778.1	780.6	783.7	785.7	785.7	790.7	792.7	791.7	797.2	798.7	800.7
32.5°	839.9	842.0	845.0	847.0	849.0	851.5	852.0	854.5	859.0	863.1	860.6
35°	917.9	922.9	917.9	923.4	924.9	928.4	927.4	930.4	932.4	933.9	933.4
37.5°	1031.0	1028.4	1027.4	1025.4	1021.9	1034.0	1027.9	1027.4	1024.4	1033.0	1027.4
40°	1179.7	1181.3	1182.8	1174.7	1170.2	1170.2	1168.7	1163.2	1160.6	1168.2	1167.2
42.5°	1335.1	1336.6	1329.5	1324.5	1313.0	1311.4	1304.4	1302.9	1300.4	1304.4	1300.4
45°	1476.3	1477.3	1461.7	1464.3	1455.2	1456.7	1445.7	1450.2	1444.1	1448.2	1455.7
47.5°	1634.2	1636.2	1622.6	1628.1	1619.1	1613.5	1613.0	1616.1	1609.5	1613.5	1615.6
50°	1777.4	1774.9	1767.9	1769.4	1765.4	1766.4	1760.3	1765.9	1758.3	1766.4	1765.4
52.5°	1904.6	1901.6	1900.1	1905.1	1901.6	1901.6	1898.1	1900.6	1901.6	1913.6	1916.1
55°	2058.9	2061.4	2063.9	2073.0	2077.0	2070.5	2077.0	2089.6	2090.1	2118.7	2134.3
57.5°	2306.7	2324.3	2333.4	2338.9	2362.5	2360.0	2375.1	2405.2	2408.3	2474.6	2513.3
60°	2739.0	2770.2	2799.8	2783.7	2831.5	2846.1	2855.1	2911.4	2929.0	2991.8	3025.5
62.5°	3284.9	3288.4	3334.7	3320.1	3347.2	3340.7	3351.8	3377.4	3400.5	3452.3	3484.0
65°	3665.9	3682.5	3700.6	3682.0	3681.5	3659.4	3645.3	3644.8	3658.9	3669.9	3705.1
67°	3769.5	3786.1	3790.6	3777.0	3757.4	3729.3	3703.1	3689.5	3680.5	3685.5	3707.6
67.5°	3768.5	3784.0	3789.6	3776.5	3749.4	3725.7	3698.1	3682.5	3670.4	3673.0	3691.6
70°	3554.3	3588.0	3606.1	3610.1	3606.6	3565.4	3541.8	3527.7	3517.6	3493.0	3491.5
72.5°	3011.4	3052.2	3066.2	3088.9	3098.9	3038.1	3012.5	3028.0	2992.9	2914.9	2918.5
75°	2211.2	2214.2	2167.0	2157.9	2124.3	1986.5	1945.3	1907.6	1847.3	1753.3	1664.8
77.5°	1152.6	1152.1	1097.8	1070.2	1030.0	947.0	943.0	875.6	828.4	742.4	711.3
80°	818.8	831.9	850.0	859.0	845.0	812.8	768.6	720.8	666.0	612.2	547.9
82.5°	761.5	769.6	779.1	743.9	724.3	679.1	645.4	576.1	537.3	476.0	411.2
85°	370.5	395.1	376.0	353.9	346.3	270.9	261.9	218.7	198.6	163.4	152.3
87.5°	23.6	29.2	26.1	23.6	20.6	11.6	15.6	11.1	11.6	8.5	7.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	507.2	506.7	506.2	505.7	505.2	505.2	504.7	504.2	503.7	502.7	502.7
5°	516.7	516.7	516.2	515.2	515.2	514.2	512.7	512.2	512.2	511.2	510.2
7.5°	532.3	531.8	530.8	530.3	529.3	528.3	527.3	526.3	525.8	524.3	523.8
10°	555.9	554.9	552.4	551.4	550.9	549.9	548.9	547.9	546.4	545.4	544.9
12.5°	582.6	582.1	580.1	581.1	578.6	577.6	576.6	574.0	575.0	573.0	572.0
15°	609.2	609.7	608.7	608.7	606.7	605.2	604.2	602.2	601.7	600.7	599.7
17.5°	632.9	633.9	632.3	631.3	630.3	629.3	627.3	625.3	625.3	623.3	622.3
20°	654.5	655.5	655.0	654.0	652.5	652.0	650.9	649.4	649.4	648.4	646.9
22.5°	679.1	679.6	679.6	679.1	677.6	678.1	677.1	675.6	676.1	674.1	674.1
25°	708.8	709.8	710.8	711.3	710.3	710.8	709.8	708.8	708.3	708.8	708.3
27.5°	749.5	750.5	753.5	751.0	753.5	754.0	752.5	750.5	752.0	754.5	753.0
30°	803.3	802.2	806.3	806.8	806.3	806.8	805.8	804.3	805.3	809.8	807.3
32.5°	863.6	865.6	866.6	867.6	869.1	871.1	869.6	868.1	870.6	869.1	872.6
35°	936.5	941.0	942.5	941.0	942.0	945.5	945.0	945.5	950.5	945.5	952.0
37.5°	1028.4	1033.0	1036.5	1034.5	1037.0	1037.0	1041.0	1052.1	1045.0	1054.1	1061.1
40°	1162.2	1169.2	1169.7	1169.2	1171.7	1174.7	1178.7	1190.8	1182.8	1192.3	1198.8
42.5°	1299.9	1308.4	1311.4	1306.4	1311.9	1318.5	1319.0	1329.5	1330.0	1331.6	1335.1
45°	1455.2	1462.7	1468.8	1466.3	1466.8	1475.3	1473.3	1483.4	1475.8	1475.8	1477.8
47.5°	1620.6	1627.6	1631.6	1635.7	1630.6	1638.2	1641.7	1639.7	1630.6	1628.6	1616.6
50°	1771.4	1777.4	1783.4	1794.5	1794.0	1797.5	1800.0	1791.0	1789.0	1777.9	1764.3
52.5°	1931.2	1946.8	1960.4	1983.5	1987.0	1999.1	1994.6	1979.5	1977.0	1958.9	1940.8
55°	2153.9	2198.6	2218.2	2253.9	2278.1	2277.6	2267.5	2265.0	2245.9	2209.7	2188.1
57.5°	2541.5	2611.3	2645.0	2691.3	2698.8	2694.3	2681.2	2658.1	2624.9	2564.1	2524.9
60°	3100.9	3144.2	3183.4	3194.4	3199.9	3191.4	3145.7	3094.4	3029.5	2945.6	2875.7
62.5°	3523.7	3567.9	3597.1	3592.5	3557.8	3514.1	3447.3	3361.3	3270.3	3176.3	3071.8
65°	3738.8	3757.4	3752.9	3717.7	3658.4	3582.0	3484.5	3378.4	3271.3	3160.2	3051.7
67°	3727.2	3727.7	3697.1	3628.7	3552.8	3456.8	3337.7	3222.1	3096.4	2979.8	2850.6
67.5°	3706.6	3704.6	3661.9	3587.0	3505.1	3406.0	3282.4	3162.8	3032.6	2914.9	2781.2
70°	3473.4	3445.2	3348.7	3229.1	3115.0	2981.3	2851.6	2714.4	2567.6	2466.6	2312.7
72.5°	2854.1	2759.1	2592.7	2467.6	2345.4	2170.5	2089.6	1919.2	1816.1	1751.8	1635.7
75°	1652.8	1573.3	1444.7	1327.5	1268.2	1164.7	1115.4	990.2	964.1	963.1	922.9
77.5°	630.8	550.4	467.5	376.5	320.2	254.3	224.2	200.6	182.5	195.0	176.9
80°	473.0	389.1	304.1	221.2	157.8	116.6	100.0	92.5	88.0	84.4	81.9
82.5°	352.4	278.0	215.6	140.7	98.5	74.4	64.3	60.3	58.3	54.8	51.8
85°	119.1	95.5	75.4	52.3	41.2	33.7	31.2	30.2	28.7	26.1	24.6
87.5°	6.5	6.0	6.5	5.0	6.0	5.0	5.5	5.5	5.5	5.0	5.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	502.2	502.2	502.2	501.2	499.6	496.6	493.6	491.1	488.6	487.1	486.1
5°	509.7	508.7	508.2	507.7	504.2	498.1	492.6	487.6	482.6	478.5	477.0
7.5°	523.3	521.3	520.8	519.3	514.7	505.7	497.6	489.6	482.6	477.0	474.5
10°	543.9	543.9	540.9	538.9	533.8	521.8	510.2	499.6	490.1	484.1	482.6
12.5°	570.0	570.0	567.5	566.0	560.0	544.4	530.3	517.7	508.7	502.7	502.2
15°	597.2	596.7	594.6	592.6	586.1	569.5	555.4	544.4	536.8	529.8	527.8
17.5°	621.3	621.3	618.8	616.8	610.2	596.2	583.6	575.5	567.0	552.4	541.4
20°	645.4	645.9	643.9	641.9	636.4	624.3	618.8	610.7	591.6	560.0	533.8
22.5°	672.1	674.1	671.6	669.5	665.0	660.0	658.0	638.9	598.7	547.9	509.7
25°	706.2	709.8	706.7	705.7	703.2	704.7	698.7	654.5	588.6	521.8	474.0
27.5°	753.0	753.0	753.5	753.5	752.5	758.0	735.9	655.0	566.5	488.1	431.3
30°	807.8	810.8	809.8	809.8	813.8	817.3	756.5	643.9	538.4	446.4	379.0
32.5°	873.6	876.1	877.1	872.6	888.7	870.6	764.0	623.8	503.7	394.6	316.7
35°	953.0	956.6	959.1	959.6	970.1	916.9	760.0	594.1	453.9	329.7	248.3
37.5°	1056.6	1063.6	1069.2	1071.7	1072.2	956.1	749.0	554.9	389.1	257.4	185.0
40°	1194.3	1201.9	1200.4	1205.4	1176.7	979.2	723.8	498.1	308.6	189.0	142.8
42.5°	1327.0	1328.0	1330.0	1325.5	1267.2	991.3	688.6	428.8	231.2	141.2	122.1
45°	1475.3	1466.8	1457.2	1450.2	1350.7	995.8	640.4	344.3	163.4	118.6	113.1
47.5°	1614.6	1603.0	1583.4	1563.3	1425.0	988.7	578.6	257.9	124.2	108.6	107.1
50°	1751.3	1729.7	1702.0	1678.9	1496.4	978.2	510.2	186.0	108.6	103.5	102.0
52.5°	1920.7	1884.5	1848.3	1818.1	1589.4	961.6	438.3	141.2	102.0	99.5	97.5
55°	2152.9	2102.6	2044.3	2002.1	1715.6	936.5	362.9	119.6	99.0	97.0	94.0
57.5°	2474.6	2399.2	2333.4	2264.5	1888.0	910.8	298.1	111.1	98.5	95.5	91.5
60°	2803.3	2712.9	2628.9	2530.4	2063.9	885.2	252.8	110.1	100.0	95.5	89.5
62.5°	2974.3	2880.8	2779.7	2679.7	2139.8	824.9	221.7	111.6	103.5	97.0	89.5
65°	2935.0	2820.9	2718.4	2616.4	2051.9	710.8	187.5	113.6	110.6	103.0	91.0
67°	2738.0	2618.9	2520.3	2422.8	1855.8	595.2	160.9	115.6	118.1	110.1	94.0
67.5°	2668.6	2549.5	2452.5	2357.5	1798.0	571.0	154.3	116.6	119.6	112.1	95.0
70°	2212.7	2125.3	2022.2	1948.8	1455.7	422.7	126.7	118.6	128.7	123.7	99.5
72.5°	1592.4	1509.0	1431.6	1390.9	1072.2	295.6	106.6	116.6	134.2	130.2	101.5
75°	846.5	841.5	813.3	833.4	663.5	193.0	94.0	109.1	128.2	119.1	94.5
77.5°	170.9	175.9	206.6	203.6	214.1	107.6	80.4	93.5	99.0	87.5	76.9
80°	79.4	77.9	76.4	77.4	75.9	68.9	65.3	73.4	68.9	56.3	51.3
82.5°	49.3	48.3	46.7	46.2	51.3	54.8	57.3	57.8	45.7	39.2	37.7
85°	23.6	23.6	23.1	24.1	30.2	44.7	48.3	42.7	30.7	28.1	26.6
87.5°	4.5	4.5	5.0	4.5	6.0	10.6	12.1	14.1	11.6	12.1	13.6
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):

	165°	175°	180°
0°	500.1	500.1	500.1
2.5°	485.1	484.1	484.1
5°	475.0	474.5	474.5
7.5°	472.5	473.0	472.5
10°	482.1	481.6	483.6
12.5°	503.2	504.7	504.2
15°	525.3	526.3	526.3
17.5°	531.8	528.3	527.8
20°	514.7	508.2	506.7
22.5°	482.6	470.5	471.0
25°	441.8	427.3	428.3
27.5°	394.6	379.0	378.5
30°	337.8	320.7	312.2
32.5°	269.4	248.8	248.8
35°	202.6	186.0	180.0
37.5°	153.8	144.3	141.2
40°	128.2	123.7	122.6
42.5°	116.6	115.1	114.6
45°	110.6	109.6	109.1
47.5°	105.1	104.6	104.1
50°	101.0	100.5	100.0
52.5°	97.5	96.5	96.0
55°	92.5	92.5	92.5
57.5°	89.5	89.5	89.0
60°	86.5	86.0	86.0
62.5°	83.9	82.9	83.4
65°	82.4	80.9	80.9
67°	81.4	78.4	78.4
67.5°	81.4	77.4	77.4
70°	79.9	73.4	72.4
72.5°	78.4	68.9	67.4
75°	74.4	65.3	63.8
77.5°	63.8	58.3	57.3
80°	49.3	42.7	43.7
82.5°	35.7	30.7	30.2
85°	25.6	22.1	22.1
87.5°	13.6	11.6	12.1
90°	0.0	0.0	0.0

(END OF REPORT)