

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: P149374

Luminaire Tested: **VWM-F03-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149374
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F03-LED-E1-SL2-HSS-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4147.5 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

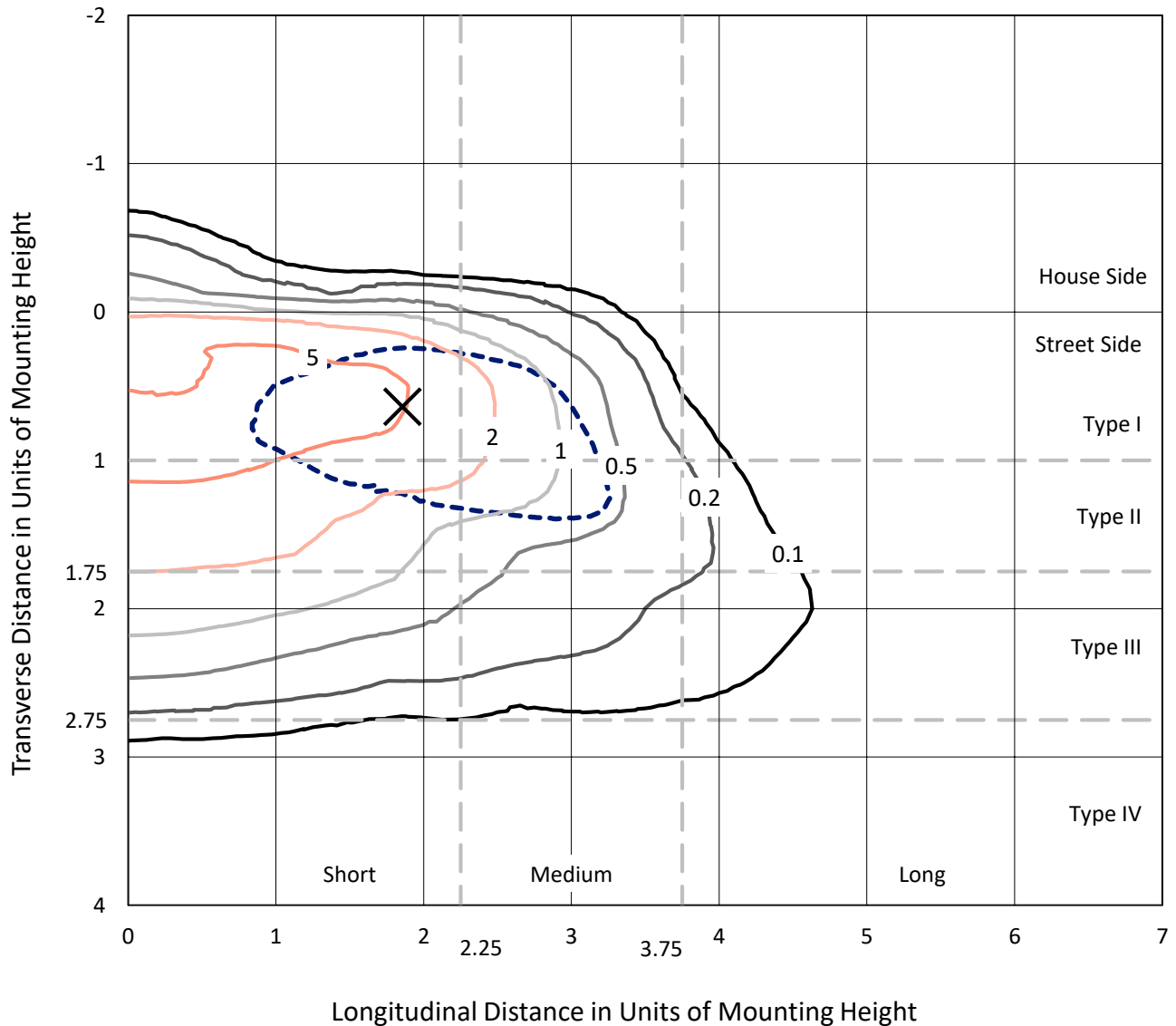
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

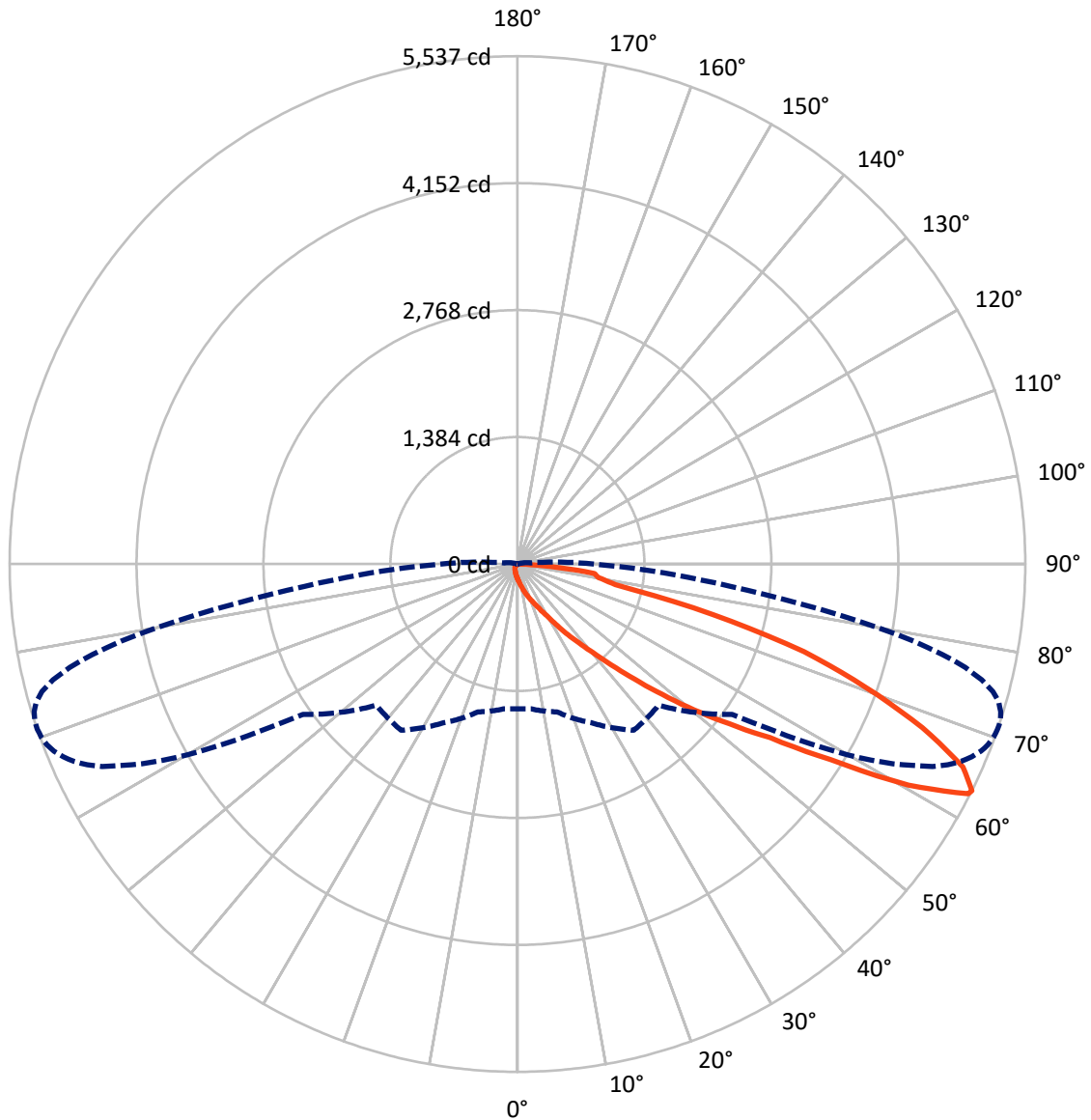
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.1	0.0	88.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4059.5	0.0	4059.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	4147.5	0.0	4147.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.6	0.4
10°-20°	68.2	1.6
20°-30°	138.5	3.3
30°-40°	338.4	8.2
40°-50°	756.9	18.2
50°-60°	1064.2	25.7
60°-70°	1251.4	30.2
70°-80°	451.9	10.9
80°-90°	60.4	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°	4147.5	100.0
0°-180°	4147.5	100.0



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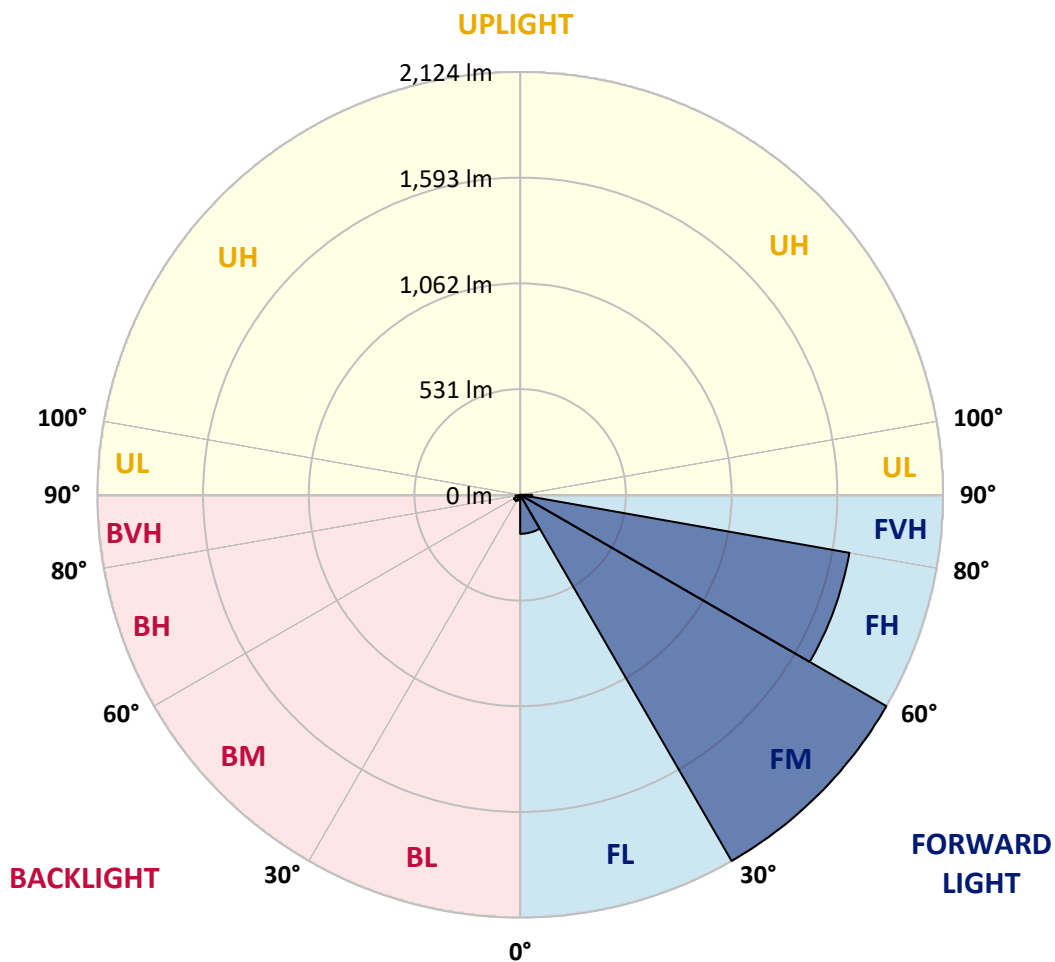
CATALOG NUMBER: VWM-F03-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.0	4.7			
FM (30°-60°)	2124.0	51.2			
FH (60°-80°)	1679.2	40.5			G1/1800
FVH (80°-90°)	60.3	1.5			G1/100
BL (0°-30°)	28.3	0.7	B0/110		
BM (30°-60°)	35.5	0.9	B0/220		
BH (60°-80°)	24.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	208.1	210.4	208.9	205.1	200.6	194.5	189.3	189.3	188.5	186.2	187.0
5°	272.9	273.7	270.7	261.6	253.3	240.5	226.2	224.7	223.2	220.9	220.2
7.5°	336.3	339.3	336.3	326.5	309.9	290.3	267.7	265.4	260.9	260.9	257.9
10°	401.1	401.1	398.1	386.8	371.7	343.8	315.2	311.4	306.1	304.6	300.1
12.5°	447.1	447.1	445.6	439.6	427.5	402.6	367.9	364.2	357.4	355.1	349.9
15°	465.2	465.2	466.0	471.2	472.0	460.7	424.5	421.5	414.7	408.7	406.4
17.5°	476.5	475.8	475.8	483.3	496.9	504.4	481.0	478.0	470.5	467.5	459.9
20°	501.4	499.9	495.4	495.4	508.2	534.6	534.6	533.8	525.5	523.3	519.5
22.5°	538.4	536.8	523.3	512.0	518.0	551.2	582.1	580.6	577.6	574.5	572.3
25°	598.7	593.4	570.0	536.8	531.6	567.0	618.3	622.0	624.3	624.3	625.8
27.5°	689.9	683.1	641.6	579.8	556.4	592.6	658.2	665.8	672.6	674.1	680.9
30°	816.6	804.5	744.9	654.5	600.9	630.3	717.0	725.3	735.1	738.2	748.7
32.5°	1024.7	1017.9	960.6	824.9	710.3	704.2	799.2	809.8	822.6	827.9	840.7
35°	1341.4	1342.9	1296.1	1174.0	1015.6	932.7	946.3	955.3	959.8	975.7	982.5
37.5°	1556.2	1560.0	1570.6	1522.3	1409.2	1324.8	1218.5	1228.3	1204.9	1207.1	1207.9
40°	1673.9	1685.9	1747.8	1794.5	1785.5	1736.4	1651.2	1656.5	1612.8	1603.0	1555.5
42.5°	1752.3	1768.1	1866.9	2011.7	2085.5	2130.0	2110.4	2108.2	2074.2	2061.4	2021.5
45°	1801.3	1815.6	1940.0	2153.4	2323.8	2453.5	2507.0	2513.1	2484.4	2471.6	2438.4
47.5°	1799.0	1815.6	1949.1	2206.2	2457.3	2664.6	2815.4	2823.0	2840.3	2829.0	2831.2
50°	1699.5	1715.3	1849.5	2116.5	2418.1	2761.1	3037.1	3061.2	3089.1	3108.0	3117.0
52.5°	1578.9	1590.2	1709.3	1962.6	2250.7	2721.2	3168.3	3209.8	3251.2	3286.7	3311.5
55°	1534.4	1547.2	1640.7	1851.1	2116.5	2553.8	3229.4	3290.4	3349.2	3407.3	3454.8
57.5°	1557.8	1569.8	1636.9	1798.3	2036.5	2377.3	3246.7	3341.7	3438.2	3532.5	3626.0
60°	1643.7	1656.5	1713.8	1847.3	2015.4	2275.6	3178.8	3336.4	3497.0	3661.4	3816.0
62.5°	1609.8	1615.1	1699.5	1933.2	2166.2	2188.8	2932.3	3152.4	3397.5	3650.8	3900.4
63°	1577.4	1583.4	1669.3	1909.9	2212.2	2176.0	2856.1	3088.4	3347.0	3619.9	3891.4
65°	1430.3	1431.1	1496.7	1686.7	2160.9	2198.6	2516.8	2738.5	3035.6	3362.8	3705.9
67.5°	1067.7	1062.4	1125.7	1270.5	1696.5	2199.4	2160.2	2284.6	2491.2	2781.5	3089.1
70°	378.5	370.2	472.8	673.3	1057.1	1799.0	1856.3	1864.6	1921.9	2078.8	2271.8
72.5°	122.9	125.2	150.8	246.6	487.1	1210.9	1680.7	1655.0	1639.9	1639.2	1664.8
75°	49.0	49.8	60.3	109.3	218.7	583.6	1471.8	1486.1	1491.4	1498.9	1507.2
77.5°	23.4	25.6	33.9	61.1	108.6	288.8	1053.3	1174.7	1244.1	1297.6	1330.0
80°	8.3	9.8	18.8	37.7	50.5	132.7	554.9	669.5	771.3	902.5	1015.6
82.5°	0.0	0.0	3.8	26.4	27.9	53.5	227.7	266.9	305.4	395.8	508.2
85°	0.0	0.0	0.0	7.5	8.3	9.0	76.9	92.7	104.1	121.4	140.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	4.5	11.3	17.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	185.5	184.7	184.7	183.2	182.5	181.0	180.2	177.9	177.2	177.2	177.2
5°	219.4	216.4	214.9	211.1	208.9	208.1	204.3	202.8	200.6	201.3	197.5
7.5°	257.1	251.8	249.6	244.3	242.8	237.5	236.0	232.2	230.0	225.4	223.9
10°	298.6	291.8	288.0	279.7	277.5	273.7	269.2	264.7	260.9	256.4	254.1
12.5°	346.1	340.1	337.0	325.7	320.4	315.2	309.1	303.1	297.1	293.3	288.0
15°	401.9	392.1	389.1	378.5	369.5	362.7	354.4	346.8	342.3	334.8	329.5
17.5°	456.9	447.1	444.9	429.0	419.2	414.7	405.6	395.8	387.6	380.0	371.7
20°	512.0	505.2	499.1	484.1	473.5	466.0	453.9	444.1	437.3	426.8	416.2
22.5°	567.0	560.2	555.7	539.9	530.1	519.5	508.9	498.4	488.6	475.8	463.7
25°	623.6	619.0	616.8	602.4	593.4	583.6	573.0	561.0	548.9	534.6	521.8
27.5°	682.4	683.9	679.3	676.3	666.5	659.7	643.2	634.9	625.8	608.5	592.6
30°	757.0	761.5	760.0	762.3	756.3	751.7	738.9	728.4	717.8	701.2	683.1
32.5°	851.3	857.3	860.3	868.6	865.6	864.1	860.3	845.2	837.7	809.0	801.5
35°	996.8	993.8	1006.6	1013.4	1010.4	1008.8	1004.3	996.0	987.0	966.6	947.8
37.5°	1186.0	1189.0	1193.6	1180.0	1171.0	1170.2	1156.6	1148.3	1135.5	1112.9	1090.3
40°	1532.9	1514.0	1492.9	1435.6	1410.7	1396.4	1356.4	1345.1	1323.3	1292.3	1269.0
42.5°	1983.8	1964.9	1901.6	1805.8	1754.5	1683.7	1651.2	1611.3	1580.4	1529.9	1502.7
45°	2431.6	2377.3	2369.8	2258.2	2194.9	2101.4	2043.3	1976.2	1906.1	1839.7	1791.5
47.5°	2809.4	2797.3	2760.4	2692.5	2633.7	2555.3	2480.6	2377.3	2305.0	2210.7	2124.0
50°	3111.7	3111.0	3097.4	3058.2	3009.2	2945.9	2880.3	2792.8	2710.6	2595.2	2502.5
52.5°	3337.9	3350.0	3354.5	3342.5	3323.6	3267.8	3234.6	3161.5	3092.1	2994.1	2893.8
55°	3503.8	3548.3	3570.9	3596.5	3591.3	3571.7	3570.2	3522.7	3491.0	3413.3	3342.5
57.5°	3708.9	3782.0	3852.2	3976.6	3981.1	4024.8	4047.4	4070.1	4076.1	4045.2	4021.8
60°	3969.8	4119.1	4251.8	4511.9	4579.8	4686.8	4756.2	4831.6	4895.7	4901.0	4899.4
62.5°	4153.8	4383.7	4597.9	4983.9	5115.8	5239.5	5332.2	5405.4	5449.9	5495.1	5516.2
63°	4159.0	4410.9	4638.6	5036.7	5175.4	5293.0	5381.3	5449.1	5495.9	5523.0	5536.6
65°	4031.6	4337.0	4608.4	5005.0	5135.4	5253.8	5299.8	5344.3	5366.9	5377.5	5337.5
67.5°	3417.1	3715.7	4032.4	4475.7	4587.3	4729.0	4766.7	4789.4	4799.9	4797.7	4763.7
70°	2555.3	2805.6	3157.7	3664.4	3812.2	3950.9	4036.9	4073.8	4085.9	4082.1	4031.6
72.5°	1783.9	1931.0	2221.3	2785.3	2986.6	3164.5	3270.8	3325.9	3337.2	3314.6	3267.8
75°	1498.2	1505.7	1571.3	1879.7	2068.2	2258.2	2378.1	2412.8	2390.2	2321.5	2202.4
77.5°	1337.6	1354.2	1354.2	1400.2	1437.1	1489.9	1501.2	1416.8	1318.7	1192.1	1089.5
80°	1121.9	1180.0	1220.7	1254.6	1258.4	1247.9	1220.0	1172.5	1097.1	1000.5	893.5
82.5°	681.6	796.2	843.0	1017.9	1103.8	1161.9	1157.4	1094.0	1036.7	936.5	845.2
85°	171.9	185.5	201.3	261.6	293.3	358.1	398.9	417.7	424.5	389.8	352.9
87.5°	16.6	11.3	18.8	14.3	20.4	15.1	20.4	18.8	23.4	24.9	27.1
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	175.7	174.9	174.2	173.4	172.7	171.9	170.4	170.4	168.9	168.1	167.4
5°	195.3	193.8	193.0	191.5	189.3	187.7	185.5	182.5	180.2	179.5	177.9
7.5°	220.2	216.4	214.9	212.6	209.6	205.1	202.1	199.8	196.0	193.8	189.3
10°	248.1	244.3	239.8	235.2	230.7	225.4	221.7	218.7	212.6	209.6	204.3
12.5°	283.5	276.7	271.4	265.4	259.4	253.3	248.8	239.8	234.5	227.7	223.2
15°	319.7	313.7	307.6	300.1	291.0	281.2	276.7	268.4	261.6	251.1	245.0
17.5°	363.4	352.1	343.1	334.0	325.7	316.7	307.6	294.8	285.0	276.0	263.9
20°	406.4	392.8	383.0	371.0	358.9	344.6	334.0	325.0	311.4	299.3	286.5
22.5°	452.4	438.8	423.0	410.9	394.3	383.0	368.7	353.6	340.1	324.2	308.4
25°	508.2	493.9	475.8	459.9	441.1	425.3	407.9	390.6	374.0	355.9	335.5
27.5°	576.8	561.7	542.1	523.3	498.4	478.8	462.2	438.8	417.7	395.1	371.7
30°	663.5	646.9	622.8	595.7	570.8	548.9	525.5	494.6	471.2	444.1	413.9
32.5°	776.6	757.0	724.6	699.0	668.0	639.4	607.0	576.1	542.9	507.4	472.8
35°	919.1	901.0	863.3	825.6	791.7	757.8	717.0	681.6	634.9	591.9	547.4
37.5°	1066.9	1034.5	999.8	959.1	916.9	876.1	826.4	777.4	723.8	677.1	621.3
40°	1235.8	1196.6	1167.9	1124.2	1064.6	1006.6	960.6	899.5	832.4	769.8	704.2
42.5°	1467.3	1423.5	1372.3	1305.9	1262.9	1195.1	1135.5	1063.1	974.9	904.8	825.6
45°	1734.9	1675.4	1625.6	1561.5	1509.5	1425.0	1355.7	1259.2	1171.0	1079.0	982.5
47.5°	2040.3	1966.4	1894.0	1830.7	1747.8	1664.8	1576.6	1474.1	1361.0	1259.9	1145.3
50°	2390.9	2286.1	2185.8	2104.4	1990.5	1894.8	1799.0	1683.7	1558.5	1442.4	1311.9
52.5°	2780.7	2659.3	2526.6	2401.5	2269.5	2146.6	2031.3	1898.6	1759.1	1617.3	1471.8
55°	3251.2	3160.0	3003.9	2844.8	2668.4	2504.0	2355.5	2191.1	2021.5	1835.2	1682.2
57.5°	3987.9	3943.4	3812.9	3653.9	3423.9	3224.1	2972.2	2770.9	2525.1	2268.8	2071.2
60°	4986.2	4931.1	4858.0	4729.0	4546.6	4275.1	3997.7	3684.8	3310.8	2955.7	2618.6
62.5°	5518.5	5498.9	5439.3	5350.3	5179.9	4965.8	4686.1	4342.2	3920.0	3488.7	3059.0
63°	5534.3	5509.4	5458.2	5367.7	5217.6	5010.3	4735.8	4401.8	3988.6	3549.0	3110.2
65°	5320.2	5310.4	5258.4	5159.6	5057.0	4898.7	4686.1	4398.8	4052.0	3636.5	3199.9
67.5°	4718.5	4689.1	4609.2	4579.0	4507.4	4397.3	4235.2	4037.6	3789.6	3463.1	3086.1
70°	3990.9	3947.2	3846.9	3793.3	3705.9	3636.5	3537.7	3396.7	3243.7	3016.0	2734.7
72.5°	3219.6	3129.1	3037.1	2897.6	2775.4	2651.8	2542.5	2442.9	2274.8	2182.8	1969.4
75°	2090.8	1926.5	1768.9	1557.8	1367.7	1199.6	1036.0	953.0	780.4	710.3	610.0
77.5°	992.3	900.3	776.6	680.9	558.7	456.2	372.5	279.7	219.4	171.9	131.2
80°	800.7	723.1	648.4	561.7	469.7	374.7	287.3	214.9	152.3	105.6	74.6
82.5°	714.0	629.6	537.6	478.0	415.5	340.1	279.0	227.7	168.1	122.9	83.7
85°	277.5	233.7	180.2	147.0	114.6	94.2	85.2	58.8	46.0	36.2	27.9
87.5°	24.1	19.6	15.8	10.6	11.3	6.0	6.8	4.5	3.8	3.8	3.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	166.6	165.9	165.1	163.6	163.6	162.1	161.4	160.6	156.8	148.5	141.8
5°	174.9	173.4	171.9	169.6	168.1	165.9	164.4	162.1	153.8	138.0	124.4
7.5°	187.0	184.0	181.7	177.2	174.9	171.9	169.6	165.9	152.3	128.2	109.3
10°	201.3	196.0	192.3	187.0	182.5	178.7	174.9	169.6	150.8	117.6	95.8
12.5°	218.7	212.6	205.1	199.1	193.0	187.7	182.5	175.7	148.5	108.6	85.2
15°	236.0	227.0	221.7	213.4	205.1	197.5	190.0	184.0	149.3	98.8	76.2
17.5°	255.6	246.6	235.2	226.2	217.2	207.3	198.3	186.2	145.5	91.2	69.4
20°	274.5	261.6	251.1	239.8	227.0	214.9	203.6	193.0	142.5	83.7	63.3
22.5°	294.8	279.7	266.2	251.8	236.0	222.4	208.9	195.3	137.2	76.9	58.1
25°	319.7	302.4	282.7	265.4	248.8	232.2	214.9	198.3	131.9	70.9	54.3
27.5°	349.9	327.2	307.6	285.8	262.4	241.3	222.4	204.3	126.7	66.4	50.5
30°	388.3	361.9	334.0	306.1	281.2	257.1	230.7	208.1	121.4	61.8	46.7
32.5°	439.6	406.4	372.5	340.1	306.9	276.0	248.1	218.7	118.4	58.1	43.0
35°	507.4	464.5	423.0	382.3	342.3	304.6	268.4	235.2	118.4	53.5	38.5
37.5°	571.5	521.8	469.0	418.5	371.0	327.2	284.3	244.3	112.3	49.8	34.7
40°	640.9	581.3	519.5	459.9	402.6	348.3	299.3	253.3	107.1	45.2	30.9
42.5°	747.2	671.8	591.1	521.8	453.2	386.0	325.0	270.7	100.3	40.7	27.1
45°	886.7	790.9	695.9	611.5	524.0	441.8	369.5	302.4	98.8	36.9	23.4
47.5°	1036.0	922.9	811.3	703.5	600.9	505.2	418.5	337.8	98.8	33.2	20.4
50°	1184.5	1042.8	923.6	798.5	683.1	570.0	466.7	374.7	99.5	30.2	16.6
52.5°	1318.7	1167.2	1033.7	889.0	761.5	630.3	518.0	410.9	98.0	26.4	13.6
55°	1505.0	1327.0	1172.5	1012.6	863.3	715.5	588.1	465.2	98.8	23.4	11.3
57.5°	1848.0	1639.2	1452.9	1243.3	1071.4	880.7	726.1	576.8	107.8	19.6	8.3
60°	2340.4	2069.0	1807.3	1551.7	1333.1	1106.1	905.5	729.9	126.7	15.8	6.0
62.5°	2671.4	2316.3	2004.1	1722.1	1468.0	1230.5	1011.9	812.1	139.5	12.8	3.8
63°	2705.3	2338.1	2024.5	1733.4	1474.1	1236.5	1016.4	818.1	140.2	12.1	3.8
65°	2769.4	2375.8	2035.8	1735.7	1468.0	1228.3	1013.4	817.3	141.8	9.8	3.0
67.5°	2696.3	2317.8	1970.2	1670.8	1415.2	1179.2	975.7	787.2	141.0	6.8	2.3
70°	2411.3	2097.6	1792.2	1513.3	1281.0	1067.7	888.2	717.8	129.7	4.5	1.5
72.5°	1770.4	1557.0	1320.2	1118.9	965.1	801.5	683.9	539.1	100.3	3.0	0.8
75°	524.8	478.0	401.9	354.4	312.9	258.6	230.0	179.5	51.3	1.5	0.0
77.5°	104.8	95.0	85.2	77.7	73.1	62.6	59.6	49.0	21.1	0.8	0.0
80°	55.0	45.2	38.5	33.9	29.4	24.1	20.4	16.6	3.8	0.0	0.0
82.5°	52.8	35.4	25.6	21.1	18.1	14.3	11.3	8.3	2.3	0.0	0.0
85°	19.6	15.1	11.3	9.0	7.5	6.8	5.3	4.5	0.0	0.0	0.0
87.5°	3.0	2.3	2.3	1.5	1.5	0.8	0.8	0.8	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°	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	135.0	128.9	125.9	122.1	122.1	121.4	122.9
5°	112.3	104.1	98.0	93.5	94.2	92.0	92.7
7.5°	95.0	86.7	81.4	78.4	77.7	76.9	76.9
10°	82.2	74.6	70.1	67.9	67.1	67.1	67.1
12.5°	73.1	65.6	61.8	60.3	60.3	59.6	59.6
15°	65.6	59.6	55.8	54.3	54.3	53.5	54.3
17.5°	59.6	53.5	50.5	49.0	49.0	48.3	48.3
20°	54.3	49.0	46.0	43.7	43.7	43.0	43.7
22.5°	49.8	44.5	40.7	39.2	38.5	37.7	38.5
25°	45.2	40.0	36.2	33.9	33.2	33.2	32.4
27.5°	41.5	36.2	31.7	29.4	28.7	28.7	27.9
30°	37.7	31.7	27.1	24.9	24.1	24.1	24.1
32.5°	33.9	27.1	23.4	21.1	20.4	20.4	20.4
35°	30.2	23.4	19.6	17.3	16.6	16.6	16.6
37.5°	25.6	19.6	15.1	13.6	12.8	12.1	12.1
40°	21.9	15.1	11.3	9.8	8.3	8.3	8.3
42.5°	18.1	12.1	8.3	6.0	5.3	4.5	5.3
45°	15.1	9.0	5.3	3.0	2.3	2.3	2.3
47.5°	12.1	6.0	2.3	0.8	0.8	0.8	0.8
50°	9.0	3.8	0.8	0.0	0.0	0.8	0.8
52.5°	6.8	2.3	0.0	0.0	0.0	0.0	0.0
55°	3.8	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)