

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: P149359

Luminaire Tested: **VWM-E02-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149359
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-E02-LED-E1-SL2-HSS-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.4 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

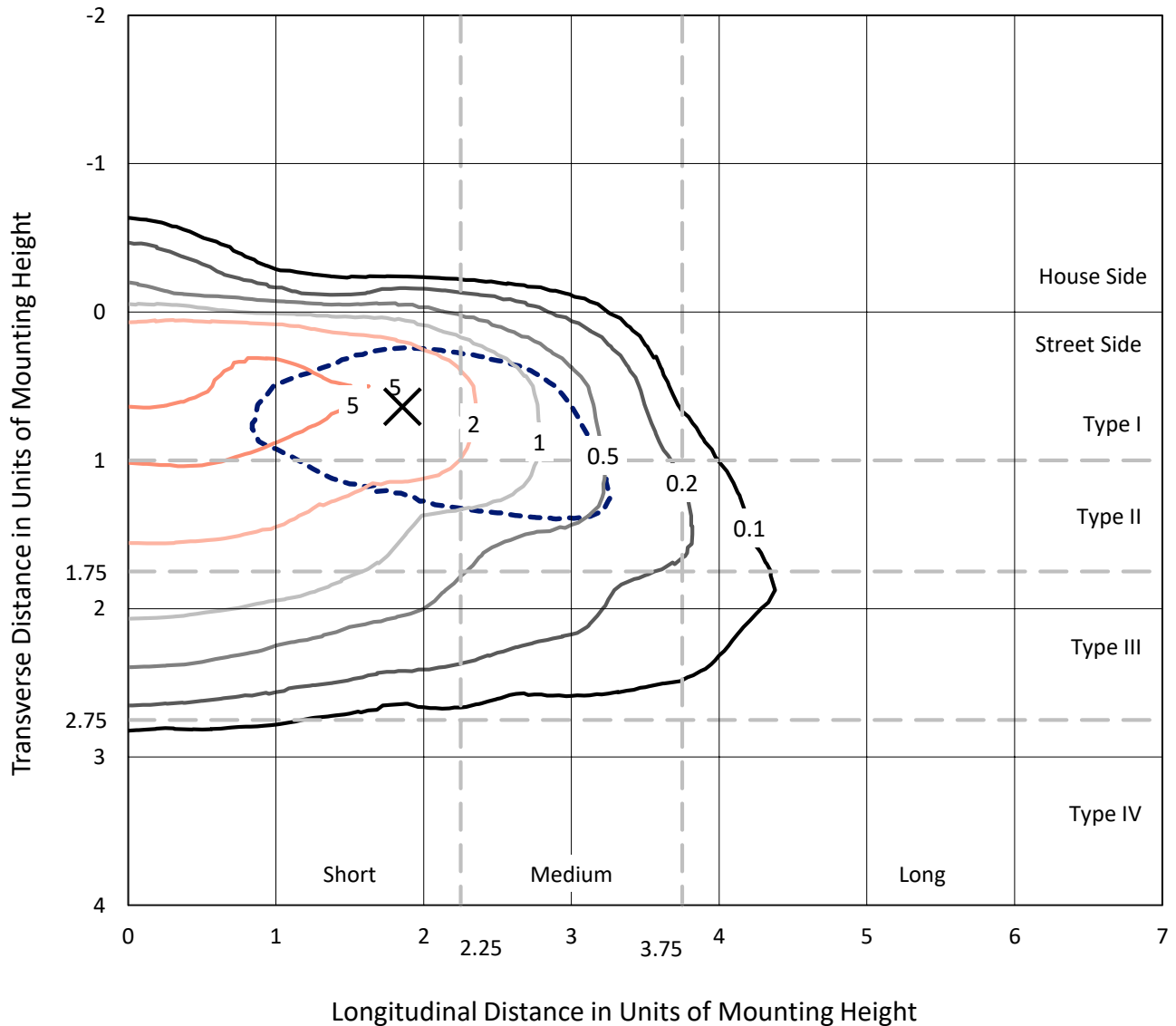
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

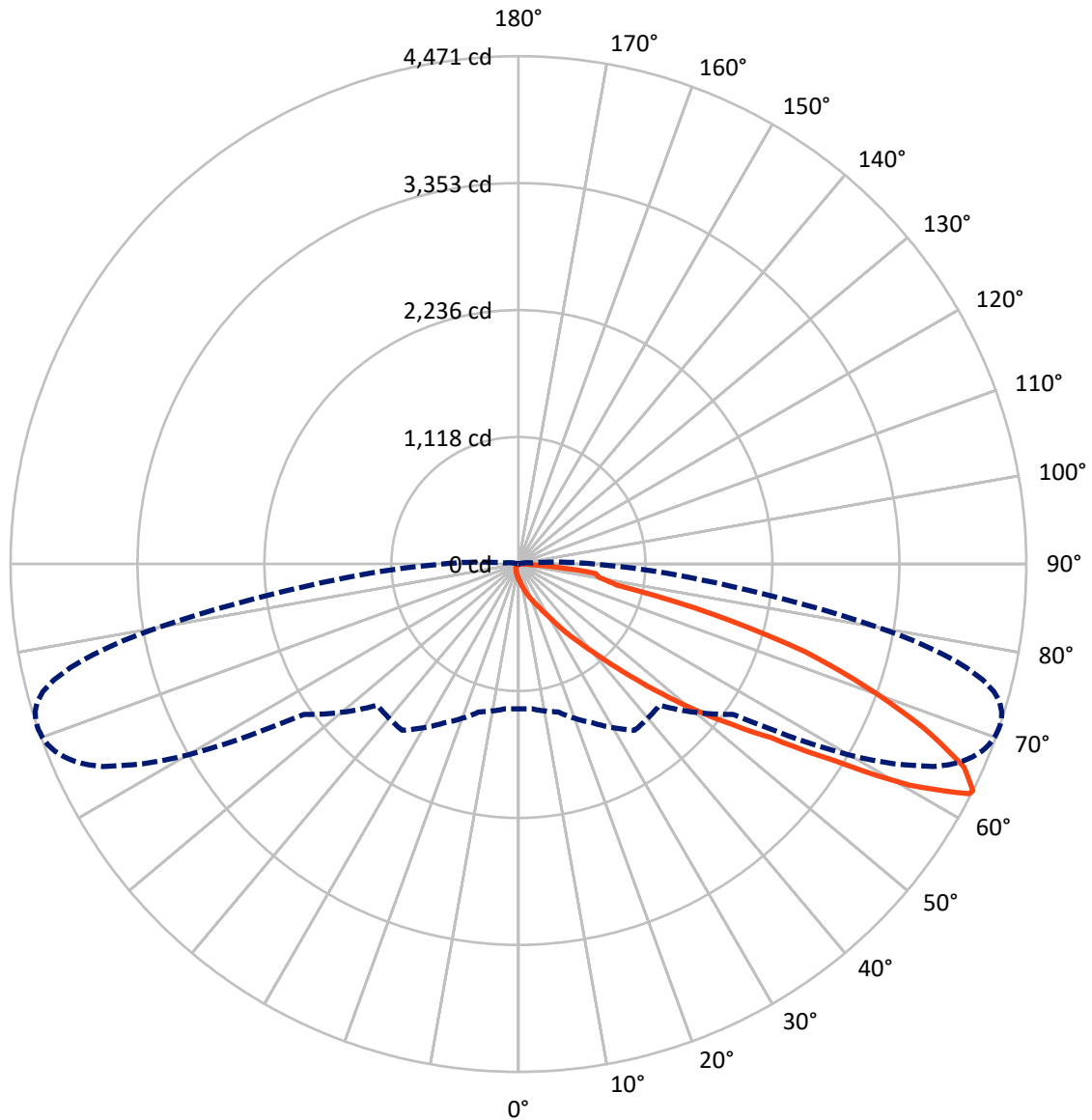
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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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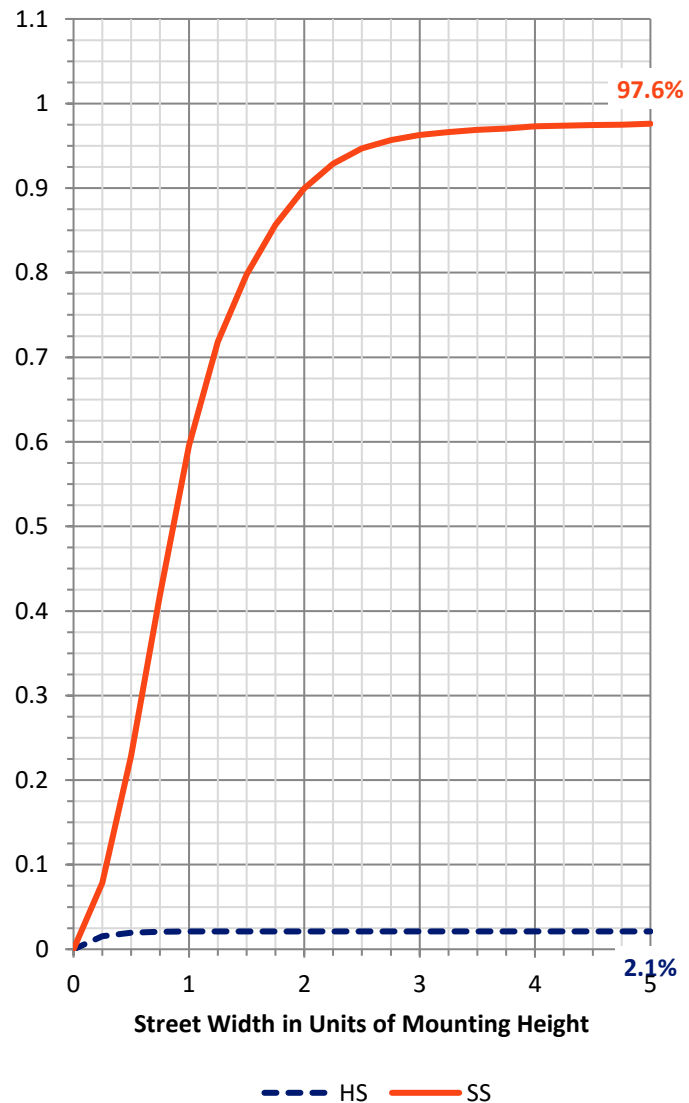
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	71.1	0.0	71.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3278.3	0.0	3278.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	3349.4	0.0	3349.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	0.4
10°-20°	55.1	1.6
20°-30°	111.9	3.3
30°-40°	273.3	8.2
40°-50°	611.2	18.2
50°-60°	859.4	25.7
60°-70°	1010.6	30.2
70°-80°	364.9	10.9
80°-90°	48.8	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°	3349.4	100.0
0°-180°	3349.4	100.0



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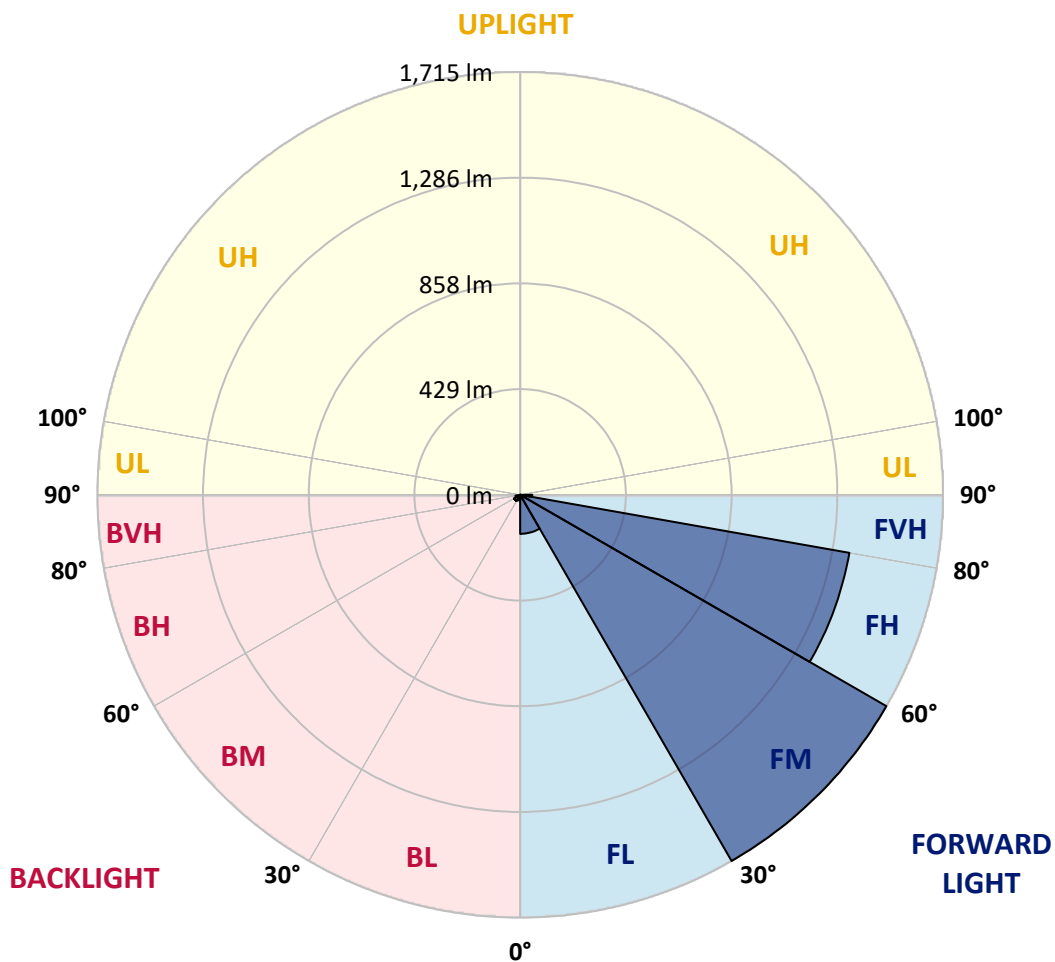
CATALOG NUMBER: VWM-E02-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.3	4.7			
FM	(30°-60°)	1715.3	51.2			
FH	(60°-80°)	1356.0	40.5			G1/1800
FVH	(80°-90°)	48.7	1.5			G1/100
BL	(0°-30°)	22.9	0.7	B0/110		
BM	(30°-60°)	28.7	0.9	B0/220		
BH	(60°-80°)	19.5	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°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	168.1	169.9	168.7	165.6	162.0	157.1	152.8	152.8	152.2	150.4	151.0
5°	220.4	221.0	218.6	211.3	204.6	194.2	182.7	181.5	180.2	178.4	177.8
7.5°	271.6	274.0	271.6	263.7	250.3	234.4	216.2	214.3	210.7	210.7	208.2
10°	323.9	323.9	321.5	312.4	300.2	277.7	254.5	251.5	247.2	246.0	242.3
12.5°	361.1	361.1	359.9	355.0	345.2	325.2	297.1	294.1	288.6	286.8	282.5
15°	375.7	375.7	376.3	380.6	381.2	372.0	342.8	340.4	334.9	330.0	328.2
17.5°	384.8	384.2	384.2	390.3	401.3	407.4	388.5	386.0	380.0	377.5	371.4
20°	404.9	403.7	400.0	400.0	410.4	431.7	431.7	431.1	424.4	422.6	419.5
22.5°	434.8	433.5	422.6	413.4	418.3	445.1	470.1	468.9	466.4	464.0	462.2
25°	483.5	479.2	460.3	433.5	429.3	457.9	499.3	502.3	504.2	504.2	505.4
27.5°	557.1	551.7	518.2	468.2	449.4	478.6	531.6	537.7	543.1	544.4	549.8
30°	659.4	649.7	601.6	528.5	485.3	509.0	579.1	585.8	593.7	596.1	604.6
32.5°	827.5	822.0	775.7	666.1	573.6	568.7	645.4	654.0	664.3	668.6	678.9
35°	1083.2	1084.5	1046.7	948.1	820.2	753.2	764.2	771.5	775.1	787.9	793.4
37.5°	1256.8	1259.8	1268.3	1229.4	1138.0	1069.8	984.0	991.9	973.0	974.8	975.5
40°	1351.8	1361.5	1411.4	1449.2	1441.9	1402.3	1333.5	1337.8	1302.4	1294.5	1256.2
42.5°	1415.1	1427.9	1507.6	1624.5	1684.2	1720.1	1704.3	1702.5	1675.1	1664.7	1632.5
45°	1454.7	1466.2	1566.7	1739.0	1876.6	1981.4	2024.6	2029.5	2006.3	1996.0	1969.2
47.5°	1452.8	1466.2	1574.0	1781.6	1984.4	2151.9	2273.6	2279.7	2293.7	2284.6	2286.4
50°	1372.5	1385.2	1493.6	1709.2	1952.7	2229.8	2452.7	2472.1	2494.7	2509.9	2517.2
52.5°	1275.0	1284.2	1380.4	1585.0	1817.6	2197.5	2558.6	2592.1	2625.6	2654.2	2674.3
55°	1239.1	1249.5	1325.0	1494.9	1709.2	2062.3	2607.9	2657.2	2704.7	2751.6	2790.0
57.5°	1258.0	1267.7	1321.9	1452.2	1644.6	1919.9	2621.9	2698.6	2776.6	2852.7	2928.2
60°	1327.4	1337.8	1384.0	1491.8	1627.6	1837.7	2567.1	2694.4	2824.1	2956.8	3081.6
62.5°	1300.0	1304.3	1372.5	1561.2	1749.4	1767.6	2368.0	2545.8	2743.7	2948.3	3149.8
63°	1273.8	1278.7	1348.1	1542.3	1786.5	1757.3	2306.5	2494.1	2702.9	2923.3	3142.5
65°	1155.1	1155.7	1208.7	1362.1	1745.1	1775.6	2032.5	2211.5	2451.4	2715.7	2992.7
67.5°	862.2	857.9	909.1	1026.0	1370.0	1776.2	1744.5	1845.0	2011.8	2246.2	2494.7
70°	305.7	299.0	381.8	543.7	853.7	1452.8	1499.1	1505.8	1552.1	1678.7	1834.6
72.5°	99.3	101.1	121.8	199.1	393.3	977.9	1357.2	1336.5	1324.4	1323.7	1344.5
75°	39.6	40.2	48.7	88.3	176.6	471.3	1188.6	1200.1	1204.4	1210.5	1217.2
77.5°	18.9	20.7	27.4	49.3	87.7	233.2	850.6	948.7	1004.7	1047.9	1074.1
80°	6.7	7.9	15.2	30.4	40.8	107.2	448.2	540.7	622.9	728.9	820.2
82.5°	0.0	0.0	3.0	21.3	22.5	43.2	183.9	215.6	246.6	319.7	410.4
85°	0.0	0.0	0.0	6.1	6.7	7.3	62.1	74.9	84.0	98.0	113.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	3.7	9.1	14.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	149.8	149.2	149.2	148.0	147.4	146.1	145.5	143.7	143.1	143.1	143.1
5°	177.2	174.8	173.5	170.5	168.7	168.1	165.0	163.8	162.0	162.6	159.5
7.5°	207.6	203.4	201.5	197.3	196.1	191.8	190.6	187.5	185.7	182.1	180.8
10°	241.1	235.6	232.6	225.9	224.1	221.0	217.4	213.7	210.7	207.0	205.2
12.5°	279.5	274.6	272.2	263.0	258.8	254.5	249.6	244.8	239.9	236.9	232.6
15°	324.5	316.6	314.2	305.7	298.4	292.9	286.2	280.1	276.4	270.4	266.1
17.5°	369.0	361.1	359.3	346.5	338.5	334.9	327.6	319.7	313.0	306.9	300.2
20°	413.4	408.0	403.1	390.9	382.4	376.3	366.6	358.6	353.2	344.6	336.1
22.5°	457.9	452.4	448.8	436.0	428.1	419.5	411.0	402.5	394.6	384.2	374.5
25°	503.6	499.9	498.1	486.5	479.2	471.3	462.8	453.0	443.3	431.7	421.4
27.5°	551.1	552.3	548.6	546.2	538.3	532.8	519.4	512.7	505.4	491.4	478.6
30°	611.3	615.0	613.8	615.6	610.7	607.1	596.7	588.2	579.7	566.3	551.7
32.5°	687.4	692.3	694.8	701.5	699.0	697.8	694.8	682.6	676.5	653.3	647.3
35°	805.0	802.5	812.9	818.4	815.9	814.7	811.1	804.4	797.1	780.6	765.4
37.5°	957.8	960.2	963.9	952.9	945.6	945.0	934.1	927.4	917.0	898.7	880.5
40°	1237.9	1222.7	1205.6	1159.3	1139.3	1127.7	1095.4	1086.3	1068.6	1043.7	1024.8
42.5°	1602.0	1586.8	1535.6	1458.3	1416.9	1359.7	1333.5	1301.2	1276.3	1235.5	1213.5
45°	1963.7	1919.9	1913.8	1823.7	1772.5	1697.0	1650.1	1595.9	1539.3	1485.7	1446.7
47.5°	2268.8	2259.0	2229.2	2174.4	2126.9	2063.6	2003.3	1919.9	1861.4	1785.3	1715.3
50°	2512.9	2512.3	2501.4	2469.7	2430.1	2379.0	2326.0	2255.4	2189.0	2095.8	2020.9
52.5°	2695.6	2705.3	2709.0	2699.3	2684.0	2639.0	2612.2	2553.1	2497.1	2417.9	2337.0
55°	2829.6	2865.5	2883.8	2904.5	2900.2	2884.4	2883.1	2844.8	2819.2	2756.5	2699.3
57.5°	2995.2	3054.2	3110.9	3211.3	3215.0	3250.3	3268.6	3286.8	3291.7	3266.7	3247.9
60°	3205.9	3326.4	3433.6	3643.7	3698.5	3784.9	3840.9	3901.8	3953.6	3957.9	3956.6
62.5°	3354.4	3540.1	3713.1	4024.8	4131.4	4231.2	4306.1	4365.2	4401.1	4437.7	4454.7
63°	3358.7	3562.1	3746.0	4067.5	4179.5	4274.5	4345.7	4400.5	4438.3	4460.2	4471.2
65°	3255.8	3502.4	3721.6	4041.9	4147.2	4242.8	4280.0	4315.9	4334.2	4342.7	4310.4
67.5°	2759.5	3000.7	3256.4	3614.4	3704.5	3819.0	3849.5	3867.7	3876.3	3874.4	3847.0
70°	2063.6	2265.7	2550.1	2959.3	3078.6	3190.6	3260.1	3289.9	3299.6	3296.6	3255.8
72.5°	1440.7	1559.4	1793.8	2249.3	2411.9	2555.6	2641.4	2685.9	2695.0	2676.7	2639.0
75°	1209.9	1216.0	1268.9	1518.0	1670.2	1823.7	1920.5	1948.5	1930.2	1874.8	1778.6
77.5°	1080.2	1093.6	1093.6	1130.7	1160.6	1203.2	1212.3	1144.1	1065.0	962.7	879.9
80°	906.0	952.9	985.8	1013.2	1016.3	1007.7	985.2	946.8	885.9	808.0	721.5
82.5°	550.4	643.0	680.8	822.0	891.4	938.3	934.7	883.5	837.2	756.3	682.6
85°	138.8	149.8	162.6	211.3	236.9	289.2	322.1	337.3	342.8	314.8	285.0
87.5°	13.4	9.1	15.2	11.6	16.4	12.2	16.4	15.2	18.9	20.1	21.9
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°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	141.9	141.3	140.7	140.0	139.4	138.8	137.6	137.6	136.4	135.8	135.2
5°	157.7	156.5	155.9	154.7	152.8	151.6	149.8	147.4	145.5	144.9	143.7
7.5°	177.8	174.8	173.5	171.7	169.3	165.6	163.2	161.4	158.3	156.5	152.8
10°	200.3	197.3	193.6	190.0	186.3	182.1	179.0	176.6	171.7	169.3	165.0
12.5°	228.9	223.5	219.2	214.3	209.5	204.6	200.9	193.6	189.4	183.9	180.2
15°	258.2	253.3	248.4	242.3	235.0	227.1	223.5	216.8	211.3	202.8	197.9
17.5°	293.5	284.4	277.0	269.7	263.0	255.7	248.4	238.1	230.2	222.9	213.1
20°	328.2	317.2	309.3	299.6	289.8	278.3	269.7	262.4	251.5	241.7	231.4
22.5°	365.3	354.4	341.6	331.9	318.5	309.3	297.8	285.6	274.6	261.8	249.0
25°	410.4	398.8	384.2	371.4	356.2	343.4	329.4	315.4	302.0	287.4	271.0
27.5°	465.8	453.6	437.8	422.6	402.5	386.7	373.3	354.4	337.3	319.1	300.2
30°	535.8	522.4	503.0	481.0	460.9	443.3	424.4	399.4	380.6	358.6	334.3
32.5°	627.2	611.3	585.2	564.5	539.5	516.3	490.2	465.2	438.4	409.8	381.8
35°	742.2	727.6	697.2	666.7	639.3	611.9	579.1	550.4	512.7	478.0	442.1
37.5°	861.6	835.4	807.4	774.5	740.4	707.5	667.4	627.8	584.5	546.8	501.7
40°	998.0	966.3	943.2	907.9	859.8	812.9	775.7	726.4	672.2	621.7	568.7
42.5°	1184.9	1149.6	1108.2	1054.6	1019.9	965.1	917.0	858.5	787.3	730.7	666.7
45°	1401.1	1353.0	1312.8	1261.0	1219.0	1150.8	1094.8	1016.9	945.6	871.3	793.4
47.5°	1647.7	1588.0	1529.6	1478.4	1411.4	1344.5	1273.2	1190.4	1099.1	1017.5	924.9
50°	1930.8	1846.2	1765.2	1699.4	1607.5	1530.2	1452.8	1359.7	1258.6	1164.8	1059.5
52.5°	2245.6	2147.6	2040.4	1939.3	1832.8	1733.5	1640.4	1533.2	1420.6	1306.1	1188.6
55°	2625.6	2551.9	2425.9	2297.4	2154.9	2022.2	1902.2	1769.5	1632.5	1482.1	1358.5
57.5°	3220.5	3184.5	3079.2	2950.7	2765.0	2603.7	2400.3	2237.7	2039.2	1832.2	1672.6
60°	4026.7	3982.2	3923.1	3819.0	3671.7	3452.5	3228.4	2975.7	2673.7	2386.9	2114.7
62.5°	4456.5	4440.7	4392.6	4320.8	4183.1	4010.2	3784.3	3506.7	3165.7	2817.4	2470.3
63°	4469.3	4449.2	4407.8	4334.8	4213.6	4046.1	3824.5	3554.8	3221.1	2866.1	2511.7
65°	4296.4	4288.5	4246.5	4166.7	4083.9	3956.0	3784.3	3552.3	3272.2	2936.7	2584.2
67.5°	3810.5	3786.8	3722.2	3697.9	3640.0	3551.1	3420.2	3260.7	3060.3	2796.7	2492.2
70°	3222.9	3187.6	3106.6	3063.4	2992.7	2936.7	2857.0	2743.1	2619.5	2435.6	2208.5
72.5°	2600.0	2526.9	2452.7	2340.0	2241.4	2141.5	2053.2	1972.8	1837.1	1762.8	1590.4
75°	1688.5	1555.7	1428.5	1258.0	1104.5	968.8	836.6	769.6	630.2	573.6	492.6
77.5°	801.3	727.0	627.2	549.8	451.2	368.4	300.8	225.9	177.2	138.8	105.9
80°	646.7	583.9	523.7	453.6	379.3	302.6	232.0	173.5	123.0	85.2	60.3
82.5°	576.6	508.4	434.1	386.0	335.5	274.6	225.3	183.9	135.8	99.3	67.6
85°	224.1	188.8	145.5	118.7	92.6	76.1	68.8	47.5	37.1	29.2	22.5
87.5°	19.5	15.8	12.8	8.5	9.1	4.9	5.5	3.7	3.0	3.0	2.4
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°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	134.6	134.0	133.3	132.1	132.1	130.9	130.3	129.7	126.7	120.0	114.5
5°	141.3	140.0	138.8	137.0	135.8	134.0	132.7	130.9	124.2	111.4	100.5
7.5°	151.0	148.6	146.7	143.1	141.3	138.8	137.0	134.0	123.0	103.5	88.3
10°	162.6	158.3	155.3	151.0	147.4	144.3	141.3	137.0	121.8	95.0	77.3
12.5°	176.6	171.7	165.6	160.7	155.9	151.6	147.4	141.9	120.0	87.7	68.8
15°	190.6	183.3	179.0	172.3	165.6	159.5	153.4	148.6	120.6	79.8	61.5
17.5°	206.4	199.1	190.0	182.7	175.4	167.4	160.1	150.4	117.5	73.7	56.0
20°	221.6	211.3	202.8	193.6	183.3	173.5	164.4	155.9	115.1	67.6	51.1
22.5°	238.1	225.9	214.9	203.4	190.6	179.6	168.7	157.7	110.8	62.1	46.9
25°	258.2	244.2	228.3	214.3	200.9	187.5	173.5	160.1	106.6	57.2	43.8
27.5°	282.5	264.3	248.4	230.8	211.9	194.8	179.6	165.0	102.3	53.6	40.8
30°	313.6	292.3	269.7	247.2	227.1	207.6	186.3	168.1	98.0	49.9	37.8
32.5°	355.0	328.2	300.8	274.6	247.8	222.9	200.3	176.6	95.6	46.9	34.7
35°	409.8	375.1	341.6	308.7	276.4	246.0	216.8	190.0	95.6	43.2	31.1
37.5°	461.5	421.4	378.7	337.9	299.6	264.3	229.6	197.3	90.7	40.2	28.0
40°	517.6	469.5	419.5	371.4	325.2	281.3	241.7	204.6	86.5	36.5	25.0
42.5°	603.4	542.5	477.4	421.4	365.9	311.8	262.4	218.6	81.0	32.9	21.9
45°	716.1	638.7	562.0	493.8	423.2	356.8	298.4	244.2	79.8	29.8	18.9
47.5°	836.6	745.3	655.2	568.1	485.3	408.0	337.9	272.8	79.8	26.8	16.4
50°	956.6	842.1	745.9	644.8	551.7	460.3	376.9	302.6	80.4	24.4	13.4
52.5°	1065.0	942.6	834.8	717.9	615.0	509.0	418.3	331.9	79.2	21.3	11.0
55°	1215.4	1071.7	946.8	817.8	697.2	577.8	474.9	375.7	79.8	18.9	9.1
57.5°	1492.4	1323.7	1173.4	1004.1	865.2	711.2	586.4	465.8	87.1	15.8	6.7
60°	1890.0	1670.8	1459.5	1253.1	1076.5	893.3	731.3	589.4	102.3	12.8	4.9
62.5°	2157.3	1870.5	1618.5	1390.7	1185.5	993.7	817.1	655.8	112.6	10.4	3.0
63°	2184.7	1888.2	1634.9	1399.9	1190.4	998.6	820.8	660.7	113.3	9.7	3.0
65°	2236.5	1918.6	1644.0	1401.7	1185.5	991.9	818.4	660.0	114.5	7.9	2.4
67.5°	2177.4	1871.8	1591.1	1349.3	1142.9	952.3	787.9	635.7	113.9	5.5	1.8
70°	1947.3	1694.0	1447.4	1222.1	1034.5	862.2	717.3	579.7	104.7	3.7	1.2
72.5°	1429.7	1257.4	1066.2	903.6	779.4	647.3	552.3	435.4	81.0	2.4	0.6
75°	423.8	386.0	324.5	286.2	252.7	208.9	185.7	144.9	41.4	1.2	0.0
77.5°	84.6	76.7	68.8	62.7	59.1	50.5	48.1	39.6	17.0	0.6	0.0
80°	44.4	36.5	31.1	27.4	23.7	19.5	16.4	13.4	3.0	0.0	0.0
82.5°	42.6	28.6	20.7	17.0	14.6	11.6	9.1	6.7	1.8	0.0	0.0
85°	15.8	12.2	9.1	7.3	6.1	5.5	4.3	3.7	0.0	0.0	0.0
87.5°	2.4	1.8	1.8	1.2	1.2	0.6	0.6	0.6	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°	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	109.0	104.1	101.7	98.6	98.6	98.0	99.3
5°	90.7	84.0	79.2	75.5	76.1	74.3	74.9
7.5°	76.7	70.0	65.8	63.3	62.7	62.1	62.1
10°	66.4	60.3	56.6	54.8	54.2	54.2	54.2
12.5°	59.1	53.0	49.9	48.7	48.7	48.1	48.1
15°	53.0	48.1	45.1	43.8	43.8	43.2	43.8
17.5°	48.1	43.2	40.8	39.6	39.6	39.0	39.0
20°	43.8	39.6	37.1	35.3	35.3	34.7	35.3
22.5°	40.2	35.9	32.9	31.7	31.1	30.4	31.1
25°	36.5	32.3	29.2	27.4	26.8	26.8	26.2
27.5°	33.5	29.2	25.6	23.7	23.1	23.1	22.5
30°	30.4	25.6	21.9	20.1	19.5	19.5	19.5
32.5°	27.4	21.9	18.9	17.0	16.4	16.4	16.4
35°	24.4	18.9	15.8	14.0	13.4	13.4	13.4
37.5°	20.7	15.8	12.2	11.0	10.4	9.7	9.7
40°	17.7	12.2	9.1	7.9	6.7	6.7	6.7
42.5°	14.6	9.7	6.7	4.9	4.3	3.7	4.3
45°	12.2	7.3	4.3	2.4	1.8	1.8	1.8
47.5°	9.7	4.9	1.8	0.6	0.6	0.6	0.6
50°	7.3	3.0	0.6	0.0	0.0	0.6	0.6
52.5°	5.5	1.8	0.0	0.0	0.0	0.0	0.0
55°	3.0	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	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)