

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: P149369

Luminaire Tested: **VWM-E03-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149369  
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-E03-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: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5024.1 lumens  
Efficiency: N/A  
Efficacy: 66.8 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 - G2

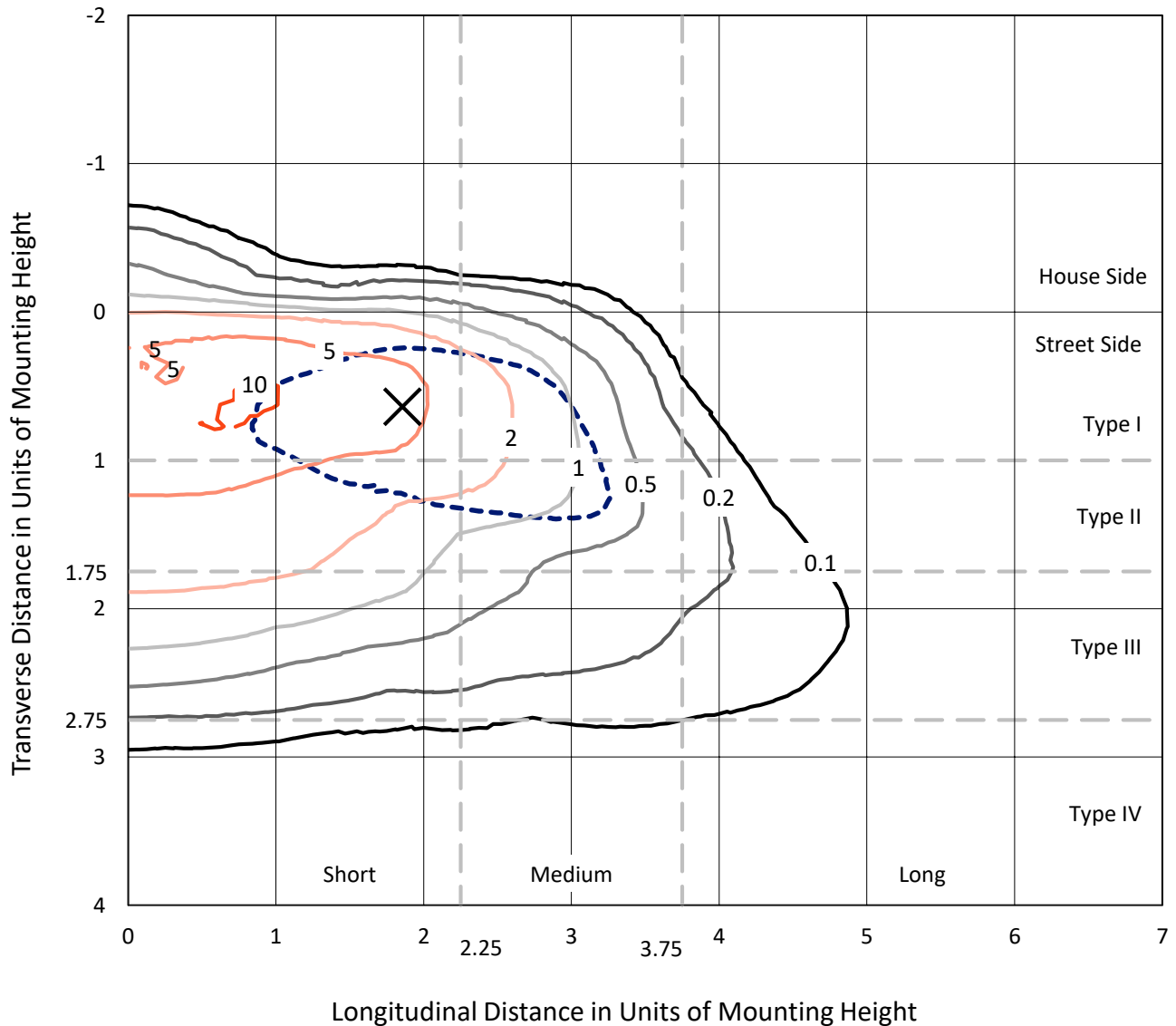
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

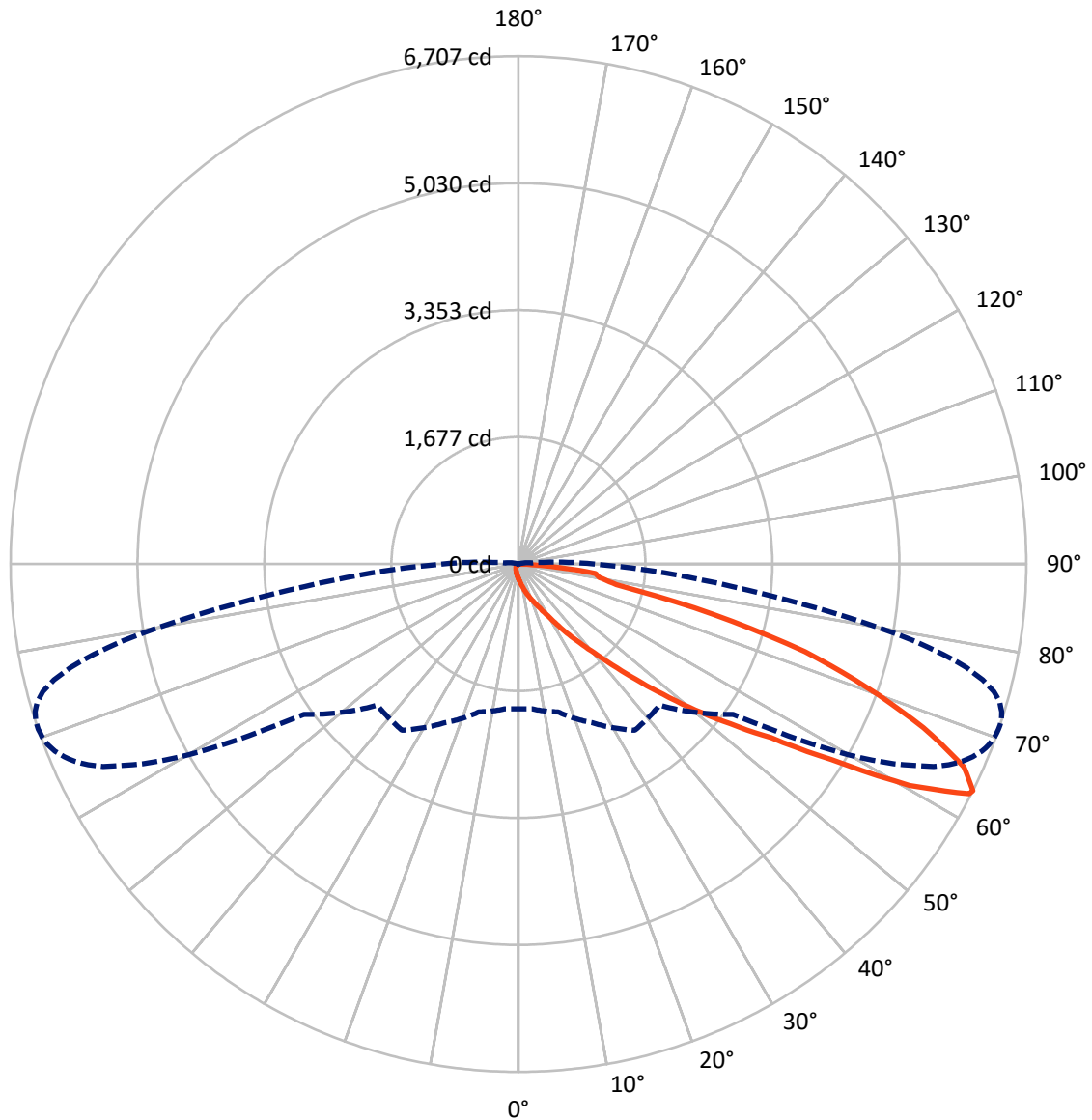
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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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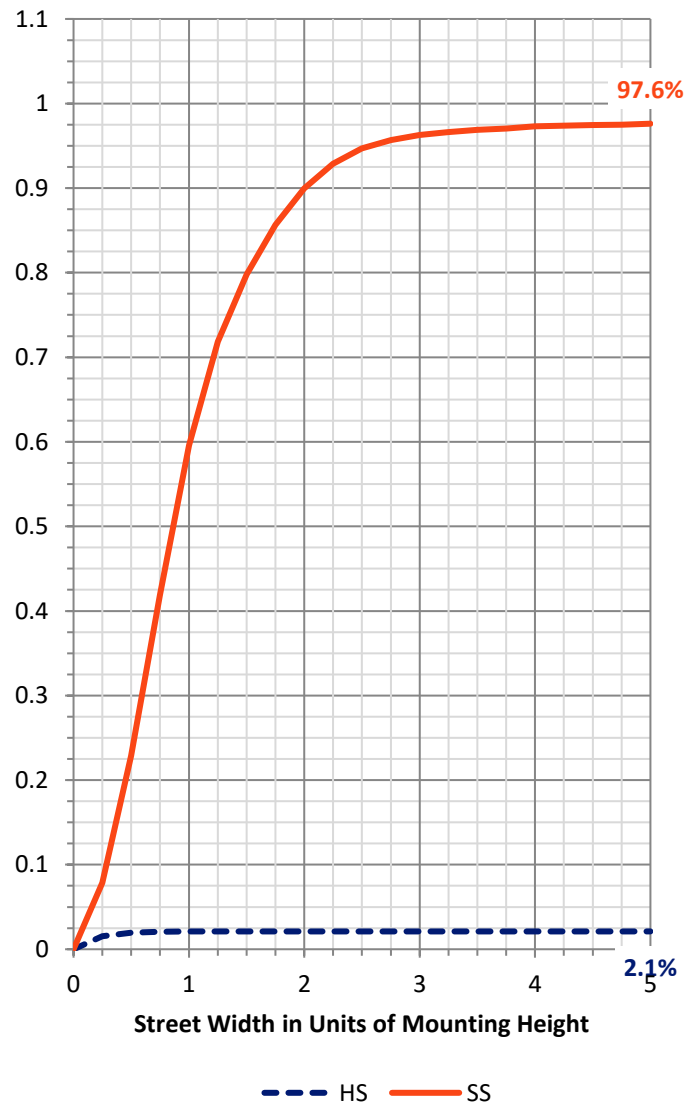
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	106.7	0.0	106.7
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	4917.4	0.0	4917.4
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	5024.1	0.0	5024.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.3	0.4
10°-20°	82.6	1.6
20°-30°	167.8	3.3
30°-40°	409.9	8.2
40°-50°	916.8	18.2
50°-60°	1289.1	25.7
60°-70°	1515.9	30.2
70°-80°	547.4	10.9
80°-90°	73.2	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°	5024.1	100.0
0°-180°	5024.1	100.0



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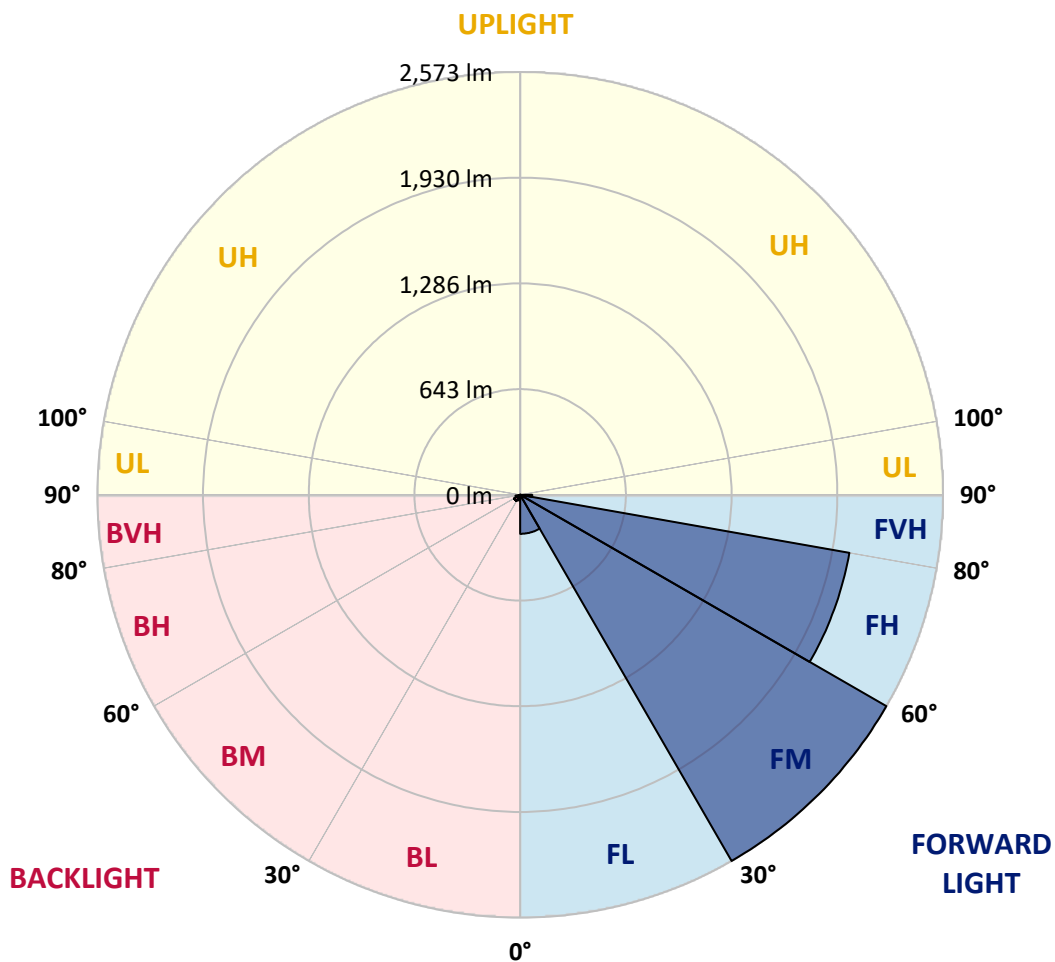
CATALOG NUMBER: VWM-E03-LED-E1-SL2-HSS-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.4	4.7			
FM	(30°-60°)	2572.9	51.2			
FH	(60°-80°)	2034.1	40.5			G2/5000
FVH	(80°-90°)	73.0	1.5			G1/100
BL	(0°-30°)	34.3	0.7	B0/110		
BM	(30°-60°)	43.0	0.9	B0/220		
BH	(60°-80°)	29.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7
2.5°	252.1	254.8	253.0	248.4	243.0	235.6	229.3	229.3	228.3	225.6	226.5
5°	330.6	331.5	327.9	316.9	306.9	291.4	274.0	272.2	270.4	267.6	266.7
7.5°	407.4	411.0	407.4	395.5	375.4	351.6	324.2	321.5	316.0	316.0	312.4
10°	485.9	485.9	482.2	468.5	450.3	416.5	381.8	377.2	370.8	369.0	363.5
12.5°	541.6	541.6	539.8	532.5	517.9	487.7	445.7	441.1	432.9	430.2	423.8
15°	563.5	563.5	564.5	570.8	571.8	558.1	514.2	510.6	502.3	495.0	492.3
17.5°	577.2	576.3	576.3	585.5	601.9	611.0	582.7	579.1	569.9	566.3	557.1
20°	607.4	605.6	600.1	600.1	615.6	647.6	647.6	646.7	636.6	633.9	629.3
22.5°	652.1	650.3	633.9	620.2	627.5	667.7	705.1	703.3	699.6	696.0	693.2
25°	725.2	718.8	690.5	650.3	643.9	686.8	748.9	753.5	756.3	756.3	758.1
27.5°	835.7	827.5	777.3	702.4	674.1	717.9	797.4	806.5	814.7	816.5	824.8
30°	989.2	974.5	902.4	792.8	727.9	763.6	868.6	878.6	890.5	894.2	907.0
32.5°	1241.2	1233.0	1163.6	999.2	860.4	853.1	968.2	980.9	996.5	1002.9	1018.4
35°	1624.9	1626.7	1570.0	1422.1	1230.3	1129.8	1146.3	1157.2	1162.7	1181.9	1190.1
37.5°	1885.2	1889.7	1902.5	1844.1	1707.1	1604.8	1476.0	1487.8	1459.5	1462.3	1463.2
40°	2027.6	2042.3	2117.1	2173.8	2162.8	2103.4	2000.2	2006.6	1953.7	1941.8	1884.2
42.5°	2122.6	2141.8	2261.5	2436.8	2526.3	2580.2	2556.5	2553.7	2512.6	2497.1	2448.7
45°	2182.0	2199.3	2350.1	2608.5	2814.9	2972.0	3036.9	3044.2	3009.5	2994.0	2953.8
47.5°	2179.3	2199.3	2361.0	2672.5	2976.6	3227.8	3410.5	3419.6	3440.6	3426.9	3429.6
50°	2058.7	2077.9	2240.4	2563.8	2929.1	3344.7	3679.0	3708.2	3742.0	3764.8	3775.8
52.5°	1912.6	1926.3	2070.6	2377.5	2726.4	3296.3	3837.9	3888.1	3938.4	3981.3	4011.4
55°	1858.7	1874.2	1987.5	2242.3	2563.8	3093.5	3911.9	3985.9	4057.1	4127.4	4185.0
57.5°	1887.0	1901.6	1982.9	2178.3	2467.0	2879.8	3932.9	4048.0	4164.9	4279.0	4392.3
60°	1991.1	2006.6	2076.0	2237.7	2441.4	2756.5	3850.7	4041.6	4236.1	4435.2	4622.5
62.5°	1950.0	1956.4	2058.7	2341.8	2624.1	2651.5	3552.0	3818.7	4115.6	4422.4	4724.8
63°	1910.7	1918.0	2022.2	2313.5	2679.8	2635.9	3459.8	3741.1	4054.4	4385.0	4713.8
65°	1732.6	1733.5	1813.0	2043.2	2617.7	2663.3	3048.8	3317.3	3677.1	4073.5	4489.1
67.5°	1293.3	1286.9	1363.6	1539.0	2055.0	2664.2	2616.7	2767.5	3017.7	3369.3	3742.0
70°	458.5	448.5	572.7	815.6	1280.5	2179.3	2248.7	2258.7	2328.1	2518.1	2751.9
72.5°	148.9	151.6	182.7	298.7	590.0	1466.8	2035.9	2004.8	1986.5	1985.6	2016.7
75°	59.4	60.3	73.1	132.4	264.9	706.9	1782.9	1800.2	1806.6	1815.7	1825.8
77.5°	28.3	31.1	41.1	74.0	131.5	349.8	1276.0	1423.0	1507.0	1571.9	1611.2
80°	10.0	11.9	22.8	45.7	61.2	160.7	672.2	811.1	934.4	1093.3	1230.3
82.5°	0.0	0.0	4.6	32.0	33.8	64.8	275.8	323.3	369.9	479.5	615.6
85°	0.0	0.0	0.0	9.1	10.0	11.0	93.2	112.3	126.0	147.0	169.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	5.5	13.7	21.0
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°	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7
2.5°	224.7	223.8	223.8	221.9	221.0	219.2	218.3	215.6	214.6	214.6	214.6
5°	265.8	262.1	260.3	255.7	253.0	252.1	247.5	245.7	243.0	243.9	239.3
7.5°	311.5	305.1	302.3	295.9	294.1	287.7	285.9	281.3	278.6	273.1	271.3
10°	361.7	353.5	348.9	338.9	336.1	331.5	326.1	320.6	316.0	310.5	307.8
12.5°	419.2	411.9	408.3	394.6	388.2	381.8	374.5	367.2	359.9	355.3	348.9
15°	486.8	474.9	471.3	458.5	447.5	439.3	429.3	420.1	414.7	405.5	399.1
17.5°	553.5	541.6	538.9	519.7	507.8	502.3	491.4	479.5	469.5	460.3	450.3
20°	620.2	611.9	604.6	586.4	573.6	564.5	549.8	538.0	529.7	517.0	504.2
22.5°	686.8	678.6	673.1	654.0	642.1	629.3	616.5	603.7	591.9	576.3	561.7
25°	755.3	749.9	747.1	729.8	718.8	706.9	694.1	679.5	664.9	647.6	632.0
27.5°	826.6	828.4	822.9	819.3	807.4	799.2	779.1	769.0	758.1	737.1	717.9
30°	917.0	922.5	920.7	923.4	916.1	910.6	895.1	882.3	869.5	849.4	827.5
32.5°	1031.2	1038.5	1042.1	1052.2	1048.5	1046.7	1042.1	1023.9	1014.7	980.0	970.9
35°	1207.4	1203.8	1219.3	1227.5	1223.9	1222.1	1216.6	1206.5	1195.6	1170.9	1148.1
37.5°	1436.7	1440.4	1445.8	1429.4	1418.4	1417.5	1401.1	1391.0	1375.5	1348.1	1320.7
40°	1856.8	1834.0	1808.4	1739.0	1708.9	1691.5	1643.1	1629.4	1602.9	1565.5	1537.2
42.5°	2403.0	2380.2	2303.5	2187.5	2125.4	2039.5	2000.2	1951.8	1914.4	1853.2	1820.3
45°	2945.6	2879.8	2870.7	2735.5	2658.8	2545.5	2475.2	2393.9	2308.9	2228.6	2170.1
47.5°	3403.1	3388.5	3343.8	3261.6	3190.3	3095.3	3004.9	2879.8	2792.1	2677.9	2572.9
50°	3769.4	3768.5	3752.0	3704.5	3645.2	3568.5	3489.0	3383.0	3283.5	3143.8	3031.4
52.5°	4043.4	4058.0	4063.5	4048.9	4026.0	3958.5	3918.3	3829.7	3745.6	3626.9	3505.4
55°	4244.3	4298.2	4325.6	4356.7	4350.3	4326.5	4324.7	4267.2	4228.8	4134.7	4048.9
57.5°	4492.8	4581.4	4666.3	4817.0	4822.5	4875.5	4902.9	4930.3	4937.6	4900.1	4871.8
60°	4808.8	4989.6	5150.4	5465.5	5547.7	5677.4	5761.4	5852.7	5930.4	5936.8	5935.0
62.5°	5031.6	5310.2	5569.6	6037.2	6197.1	6346.9	6459.2	6547.8	6601.7	6656.5	6682.1
63°	5038.0	5343.1	5618.9	6101.2	6269.2	6411.7	6518.6	6600.8	6657.4	6690.3	6706.7
65°	4883.7	5253.6	5582.4	6062.8	6220.8	6364.2	6419.9	6473.8	6501.2	6514.0	6465.6
67.5°	4139.3	4501.0	4884.6	5421.6	5556.8	5728.5	5774.2	5801.6	5814.4	5811.6	5770.5
70°	3095.3	3398.6	3825.1	4438.9	4617.9	4786.0	4890.1	4934.8	4949.4	4944.9	4883.7
72.5°	2161.0	2339.1	2690.7	3373.9	3617.8	3833.3	3962.1	4028.8	4042.5	4015.1	3958.5
75°	1814.8	1824.0	1903.4	2277.0	2505.3	2735.5	2880.7	2922.7	2895.3	2812.2	2667.9
77.5°	1620.3	1640.4	1640.4	1696.1	1740.8	1804.8	1818.5	1716.2	1597.4	1444.0	1319.8
80°	1359.1	1429.4	1478.7	1519.8	1524.4	1511.6	1477.8	1420.3	1328.9	1212.0	1082.3
82.5°	825.7	964.5	1021.1	1233.0	1337.1	1407.5	1402.0	1325.3	1255.9	1134.4	1023.9
85°	208.2	224.7	243.9	316.9	355.3	433.8	483.2	506.0	514.2	472.2	427.4
87.5°	20.1	13.7	22.8	17.4	24.7	18.3	24.7	22.8	28.3	30.1	32.9
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°	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7
2.5°	212.8	211.9	211.0	210.1	209.2	208.2	206.4	206.4	204.6	203.7	202.8
5°	236.6	234.7	233.8	232.0	229.3	227.4	224.7	221.0	218.3	217.4	215.6
7.5°	266.7	262.1	260.3	257.6	253.9	248.4	244.8	242.0	237.5	234.7	229.3
10°	300.5	295.9	290.4	285.0	279.5	273.1	268.5	264.9	257.6	253.9	247.5
12.5°	343.4	335.2	328.8	321.5	314.2	306.9	301.4	290.4	284.1	275.8	270.4
15°	387.3	380.0	372.6	363.5	352.6	340.7	335.2	325.2	316.9	304.1	296.8
17.5°	440.2	426.5	415.6	404.6	394.6	383.6	372.6	357.1	345.2	334.3	319.7
20°	492.3	475.9	464.0	449.4	434.8	417.4	404.6	393.7	377.2	362.6	347.1
22.5°	548.0	531.6	512.4	497.8	477.7	464.0	446.6	428.4	411.9	392.7	373.6
25°	615.6	598.2	576.3	557.1	534.3	515.1	494.1	473.1	453.0	431.1	406.4
27.5°	698.7	680.4	656.7	633.9	603.7	580.0	559.9	531.6	506.0	478.6	450.3
30°	803.7	783.7	754.4	721.5	691.4	664.9	636.6	599.2	570.8	538.0	501.4
32.5°	940.8	917.0	877.7	846.7	809.2	774.5	735.2	697.8	657.6	614.7	572.7
35°	1113.4	1091.5	1045.8	1000.1	959.0	917.9	868.6	825.7	769.0	717.0	663.1
37.5°	1292.4	1253.1	1211.1	1161.8	1110.6	1061.3	1001.0	941.7	876.8	820.2	752.6
40°	1497.0	1449.5	1414.8	1361.8	1289.7	1219.3	1163.6	1089.6	1008.3	932.5	853.1
42.5°	1777.4	1724.4	1662.3	1581.9	1529.9	1447.7	1375.5	1287.8	1181.0	1096.0	1000.1
45°	2101.6	2029.5	1969.2	1891.5	1828.5	1726.2	1642.2	1525.3	1418.4	1307.0	1190.1
47.5°	2471.5	2382.0	2294.3	2217.6	2117.1	2016.7	1909.8	1785.6	1648.6	1526.2	1387.4
50°	2896.2	2769.3	2647.8	2549.2	2411.2	2295.2	2179.3	2039.5	1887.9	1747.2	1589.2
52.5°	3368.4	3221.4	3060.6	2909.0	2749.2	2600.3	2460.6	2299.8	2130.8	1959.1	1782.9
55°	3938.4	3827.9	3638.8	3446.1	3232.3	3033.2	2853.3	2654.2	2448.7	2223.1	2037.7
57.5°	4830.7	4776.8	4618.8	4426.1	4147.5	3905.5	3600.4	3356.6	3058.8	2748.3	2509.0
60°	6040.0	5973.3	5884.7	5728.5	5507.5	5178.7	4842.6	4463.5	4010.5	3580.3	3172.1
62.5°	6684.8	6661.1	6588.9	6481.1	6274.7	6015.3	5676.5	5260.0	4748.5	4226.1	3705.5
63°	6704.0	6673.9	6611.7	6502.1	6320.4	6069.2	5736.8	5332.1	4831.6	4299.1	3767.6
65°	6444.6	6432.7	6369.7	6250.1	6125.8	5934.0	5676.5	5328.5	4908.3	4405.1	3876.3
67.5°	5715.7	5680.1	5583.3	5546.8	5460.0	5326.7	5130.3	4891.0	4590.5	4195.0	3738.3
70°	4834.4	4781.4	4659.9	4595.1	4489.1	4405.1	4285.4	4114.6	3929.2	3653.4	3312.7
72.5°	3900.0	3790.4	3679.0	3510.0	3362.0	3212.3	3079.8	2959.3	2755.6	2644.1	2385.7
75°	2532.7	2333.6	2142.7	1887.0	1656.8	1453.1	1254.9	1154.5	945.3	860.4	738.9
77.5°	1202.0	1090.5	940.8	824.8	676.8	552.6	451.2	338.9	265.8	208.2	158.9
80°	970.0	875.9	785.5	680.4	569.0	453.9	348.0	260.3	184.5	127.9	90.4
82.5°	864.9	762.6	651.2	579.1	503.3	411.9	337.9	275.8	203.7	148.9	101.4
85°	336.1	283.1	218.3	178.1	138.8	114.2	103.2	71.2	55.7	43.8	33.8
87.5°	29.2	23.7	19.2	12.8	13.7	7.3	8.2	5.5	4.6	4.6	3.7
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°	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7	192.7
2.5°	201.9	200.9	200.0	198.2	198.2	196.4	195.5	194.5	190.0	179.9	171.7
5°	211.9	210.1	208.2	205.5	203.7	200.9	199.1	196.4	186.3	167.1	150.7
7.5°	226.5	222.9	220.1	214.6	211.9	208.2	205.5	200.9	184.5	155.3	132.4
10°	243.9	237.5	232.9	226.5	221.0	216.5	211.9	205.5	182.7	142.5	116.0
12.5°	264.9	257.6	248.4	241.1	233.8	227.4	221.0	212.8	179.9	131.5	103.2
15°	285.9	274.9	268.5	258.5	248.4	239.3	230.2	222.9	180.8	119.6	92.2
17.5°	309.6	298.7	285.0	274.0	263.0	251.2	240.2	225.6	176.3	110.5	84.0
20°	332.5	316.9	304.1	290.4	274.9	260.3	246.6	233.8	172.6	101.4	76.7
22.5°	357.1	338.9	322.4	305.1	285.9	269.4	253.0	236.6	166.2	93.2	70.3
25°	387.3	366.3	342.5	321.5	301.4	281.3	260.3	240.2	159.8	85.9	65.8
27.5°	423.8	396.4	372.6	346.2	317.8	292.3	269.4	247.5	153.4	80.4	61.2
30°	470.4	438.4	404.6	370.8	340.7	311.5	279.5	252.1	147.0	74.9	56.6
32.5°	532.5	492.3	451.2	411.9	371.7	334.3	300.5	264.9	143.4	70.3	52.1
35°	614.7	562.6	512.4	463.1	414.7	369.0	325.2	285.0	143.4	64.8	46.6
37.5°	692.3	632.0	568.1	506.9	449.4	396.4	344.3	295.9	136.1	60.3	42.0
40°	776.3	704.2	629.3	557.1	487.7	422.0	362.6	306.9	129.7	54.8	37.4
42.5°	905.1	813.8	716.1	632.0	548.9	467.6	393.7	327.9	121.5	49.3	32.9
45°	1074.1	958.1	843.0	740.7	634.8	535.2	447.5	366.3	119.6	44.8	28.3
47.5°	1254.9	1117.9	982.8	852.2	727.9	611.9	506.9	409.2	119.6	40.2	24.7
50°	1434.9	1263.2	1118.9	967.2	827.5	690.5	565.4	453.9	120.6	36.5	20.1
52.5°	1597.4	1413.9	1252.2	1076.8	922.5	763.6	627.5	497.8	118.7	32.0	16.4
55°	1823.0	1607.5	1420.3	1226.6	1045.8	866.8	712.4	563.5	119.6	28.3	13.7
57.5°	2238.6	1985.6	1760.0	1506.1	1297.9	1066.8	879.6	698.7	130.6	23.7	10.0
60°	2835.0	2506.2	2189.3	1879.7	1614.8	1339.9	1096.9	884.1	153.4	19.2	7.3
62.5°	3236.0	2805.8	2427.7	2086.1	1778.3	1490.6	1225.7	983.7	169.0	15.5	4.6
63°	3277.1	2832.3	2452.3	2099.8	1785.6	1497.9	1231.2	991.0	169.9	14.6	4.6
65°	3354.7	2878.0	2466.0	2102.5	1778.3	1487.8	1227.5	990.1	171.7	11.9	3.7
67.5°	3266.1	2807.6	2386.6	2024.0	1714.4	1428.5	1181.9	953.5	170.8	8.2	2.7
70°	2920.9	2540.9	2171.0	1833.1	1551.8	1293.3	1075.9	869.5	157.1	5.5	1.8
72.5°	2144.5	1886.1	1599.3	1355.4	1169.1	970.9	828.4	653.0	121.5	3.7	0.9
75°	635.7	579.1	486.8	429.3	379.0	313.3	278.6	217.4	62.1	1.8	0.0
77.5°	127.0	115.1	103.2	94.1	88.6	75.8	72.2	59.4	25.6	0.9	0.0
80°	66.7	54.8	46.6	41.1	35.6	29.2	24.7	20.1	4.6	0.0	0.0
82.5°	63.9	42.9	31.1	25.6	21.9	17.4	13.7	10.0	2.7	0.0	0.0
85°	23.7	18.3	13.7	11.0	9.1	8.2	6.4	5.5	0.0	0.0	0.0
87.5°	3.7	2.7	2.7	1.8	1.8	0.9	0.9	0.9	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°	192.7	192.7	192.7	192.7	192.7	192.7	192.7
2.5°	163.5	156.2	152.5	148.0	148.0	147.0	148.9
5°	136.1	126.0	118.7	113.3	114.2	111.4	112.3
7.5°	115.1	105.0	98.6	95.0	94.1	93.2	93.2
10°	99.6	90.4	84.9	82.2	81.3	81.3	81.3
12.5°	88.6	79.5	74.9	73.1	73.1	72.2	72.2
15°	79.5	72.2	67.6	65.8	65.8	64.8	65.8
17.5°	72.2	64.8	61.2	59.4	59.4	58.5	58.5
20°	65.8	59.4	55.7	53.0	53.0	52.1	53.0
22.5°	60.3	53.9	49.3	47.5	46.6	45.7	46.6
25°	54.8	48.4	43.8	41.1	40.2	40.2	39.3
27.5°	50.2	43.8	38.4	35.6	34.7	34.7	33.8
30°	45.7	38.4	32.9	30.1	29.2	29.2	29.2
32.5°	41.1	32.9	28.3	25.6	24.7	24.7	24.7
35°	36.5	28.3	23.7	21.0	20.1	20.1	20.1
37.5°	31.1	23.7	18.3	16.4	15.5	14.6	14.6
40°	26.5	18.3	13.7	11.9	10.0	10.0	10.0
42.5°	21.9	14.6	10.0	7.3	6.4	5.5	6.4
45°	18.3	11.0	6.4	3.7	2.7	2.7	2.7
47.5°	14.6	7.3	2.7	0.9	0.9	0.9	0.9
50°	11.0	4.6	0.9	0.0	0.0	0.9	0.9
52.5°	8.2	2.7	0.0	0.0	0.0	0.0	0.0
55°	4.6	0.9	0.0	0.0	0.0	0.0	0.0
57.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.9	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)