

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: P150524

Luminaire Tested: **VWM-F04-LED-E1-SL3-HSS-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P150524  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VWM-F04-LED-E1-SL3-HSS-7030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5229.2 lumens  
Efficiency: N/A  
Efficacy: 51.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2

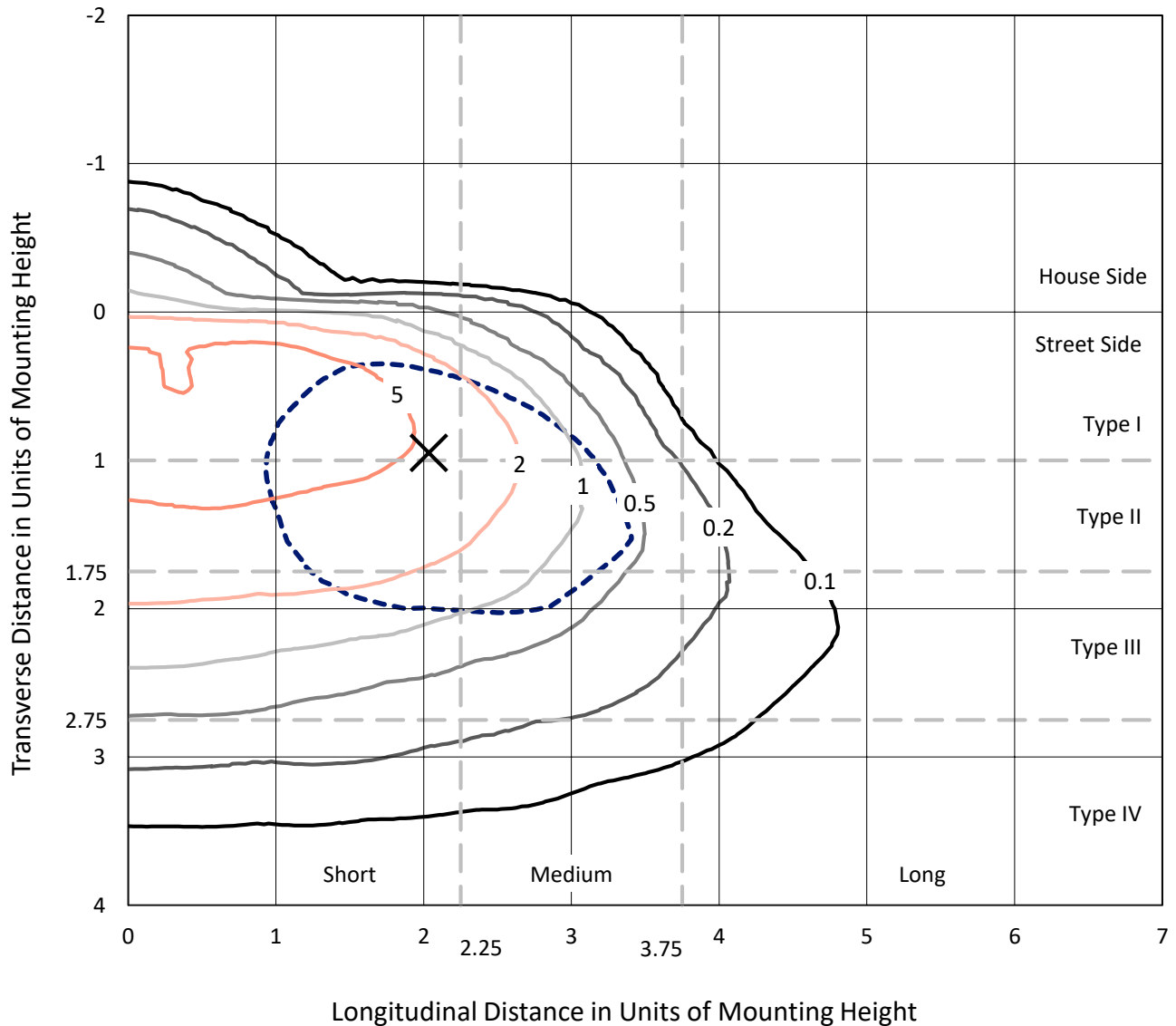
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

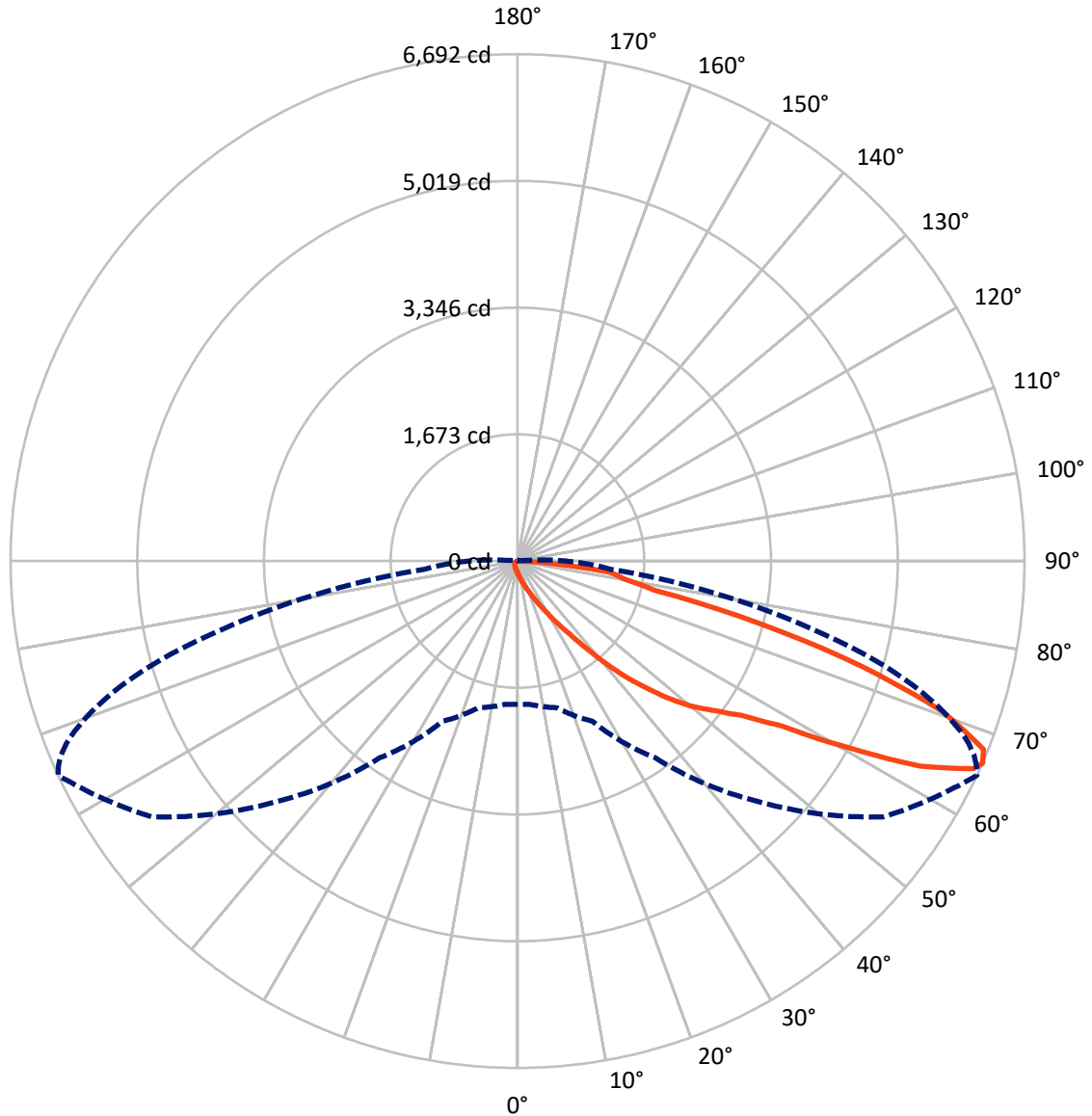
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	113.3	0.0	113.3
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	5115.8	0.0	5115.8
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	5229.2	0.0	5229.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.7	0.3
10°-20°	74.9	1.4
20°-30°	161.6	3.1
30°-40°	345.1	6.6
40°-50°	763.1	14.6
50°-60°	1293.3	24.7
60°-70°	1725.8	33.0
70°-80°	760.2	14.5
80°-90°	87.6	1.7
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°	5229.2	100.0
0°-180°	5229.2	100.0



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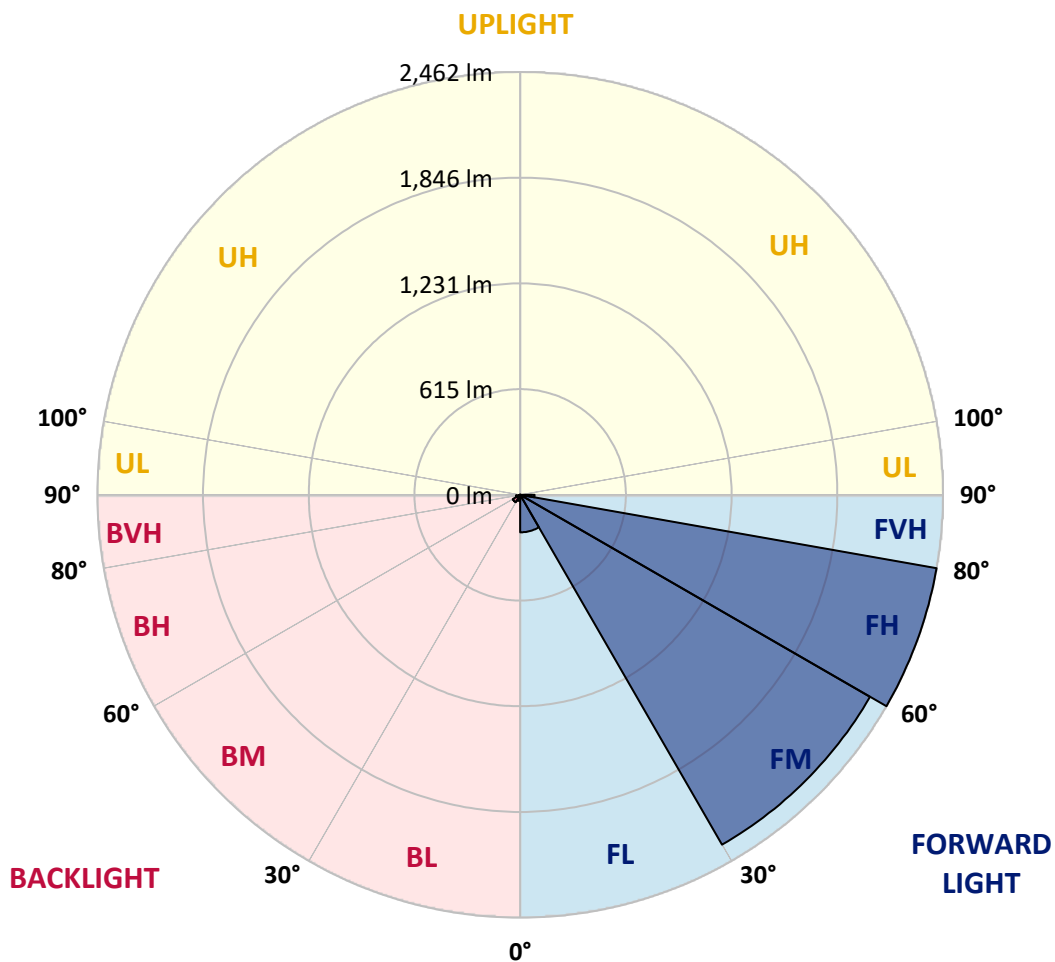
CATALOG NUMBER: VWM-F04-LED-E1-SL3-HSS-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.4	4.2			
FM	(30°-60°)	2351.7	45.0			
FH	(60°-80°)	2461.6	47.1			G2/5000
FVH	(80°-90°)	84.1	1.6			G1/100
BL	(0°-30°)	35.8	0.7	B0/110		
BM	(30°-60°)	49.8	1.0	B0/220		
BH	(60°-80°)	24.3	0.5	B0/110		G0/110
BVH	(80°-90°)	3.5	0.1			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	199.1	198.0	194.0	194.0	188.0	184.0	178.9	173.9	173.9	172.9	171.9
5°	263.4	257.4	256.4	245.3	236.3	223.2	211.1	195.0	193.0	191.0	190.0
7.5°	334.8	333.8	324.7	311.7	293.6	269.4	245.3	219.2	215.1	213.1	209.1
10°	427.3	422.2	410.2	388.1	360.9	328.7	289.5	248.3	243.3	239.3	237.3
12.5°	515.7	506.7	499.6	471.5	437.3	390.1	342.8	283.5	279.5	274.5	266.4
15°	598.2	590.1	578.1	553.9	515.7	456.4	401.1	328.7	318.7	311.7	305.6
17.5°	662.5	657.5	643.4	616.3	575.0	522.8	456.4	375.0	366.9	357.9	346.8
20°	723.8	716.8	694.7	657.5	613.2	573.0	521.8	435.3	424.2	413.2	401.1
22.5°	782.1	775.1	738.9	677.6	630.3	613.2	595.2	503.7	486.6	477.5	465.5
25°	863.6	848.5	792.2	694.7	631.3	644.4	675.6	592.1	576.1	563.0	543.9
27.5°	973.2	953.0	864.6	719.8	635.4	678.6	768.1	699.7	682.6	667.5	646.4
30°	1096.8	1083.7	978.2	780.1	664.5	728.9	871.6	836.4	816.3	798.2	773.1
32.5°	1221.5	1203.4	1098.8	894.7	742.9	826.4	1001.3	995.3	969.1	952.0	924.9
35°	1331.0	1322.0	1244.6	1082.7	921.9	997.3	1174.2	1181.3	1158.1	1140.0	1109.9
37.5°	1405.4	1405.4	1390.4	1284.8	1206.4	1262.7	1428.6	1429.6	1406.4	1365.2	1350.2
40°	1443.6	1454.7	1509.0	1529.1	1525.1	1597.5	1762.3	1744.2	1725.1	1704.0	1653.8
42.5°	1522.1	1532.1	1647.7	1786.5	1876.9	1972.4	2086.0	2080.0	2056.9	2018.7	1972.4
45°	1654.8	1667.8	1805.6	2025.7	2211.7	2347.4	2419.8	2391.7	2368.5	2332.4	2308.2
47.5°	1823.7	1848.8	2004.6	2277.1	2501.2	2725.4	2800.8	2726.4	2706.3	2678.2	2639.0
50°	2003.6	2027.7	2193.6	2505.3	2758.6	3026.0	3151.7	3026.0	2996.9	2987.8	2943.6
52.5°	2159.4	2179.5	2339.4	2681.2	2955.7	3269.3	3452.3	3286.4	3265.3	3235.1	3203.0
55°	2251.9	2268.0	2417.8	2765.6	3089.4	3488.5	3742.8	3597.1	3565.9	3553.8	3507.6
57.5°	2283.1	2299.2	2433.9	2776.7	3161.7	3688.5	4095.7	4100.7	4063.5	4020.3	4006.2
60°	2283.1	2301.2	2414.8	2749.6	3232.1	3901.7	4566.2	4985.4	4905.0	4896.9	4845.7
62.5°	2188.6	2205.7	2320.3	2666.1	3326.6	4189.2	5221.7	5961.6	5938.5	5886.2	5801.7
65°	1983.5	1993.6	2106.2	2453.0	3290.4	4453.6	5789.7	6611.0	6573.8	6471.3	6362.7
66°	1891.0	1899.1	2004.6	2331.3	3171.8	4489.8	5890.2	6692.4	6631.1	6544.7	6422.0
67.5°	1757.3	1771.4	1845.8	2105.1	2887.3	4364.1	5826.9	6635.1	6581.9	6477.3	6354.7
70°	1173.2	1163.2	1425.6	1615.6	2199.7	3555.8	5227.7	5957.6	5958.6	5909.3	5860.0
72.5°	556.9	563.0	639.4	994.3	1439.6	2375.6	4161.0	4755.2	4823.5	4735.1	4673.8
75°	400.1	409.2	455.4	608.2	858.5	1425.6	2697.3	3325.6	3327.6	3170.8	3031.1
77.5°	116.6	121.6	170.9	375.0	643.4	962.1	1549.2	1848.8	1805.6	1693.0	1587.4
80°	48.3	48.3	50.3	119.6	258.4	653.5	1083.7	1423.5	1418.5	1375.3	1313.0
82.5°	18.1	19.1	24.1	49.3	61.3	160.9	722.8	1235.5	1232.5	1171.2	1127.0
85°	2.0	2.0	6.0	21.1	23.1	30.2	144.8	544.9	541.9	544.9	477.5
87.5°	0.0	0.0	1.0	2.0	3.0	4.0	6.0	21.1	23.1	22.1	20.1
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	171.9	169.9	169.9	168.9	168.9	168.9	167.9	166.9	166.9	165.9	164.9
5°	188.0	186.0	185.0	183.0	182.0	181.0	178.9	177.9	175.9	174.9	173.9
7.5°	207.1	203.1	202.1	199.1	196.0	194.0	192.0	189.0	187.0	183.0	182.0
10°	231.2	226.2	222.2	218.2	215.1	210.1	207.1	203.1	199.1	196.0	193.0
12.5°	262.4	255.4	249.3	245.3	238.3	232.2	226.2	223.2	215.1	211.1	206.1
15°	296.6	288.5	281.5	273.4	268.4	258.4	250.3	241.3	237.3	230.2	222.2
17.5°	340.8	327.7	316.7	308.6	298.6	288.5	279.5	270.4	258.4	250.3	240.3
20°	388.1	377.0	361.9	347.8	335.8	323.7	310.6	298.6	287.5	274.5	262.4
22.5°	448.4	432.3	414.2	400.1	384.0	371.0	352.9	336.8	318.7	301.6	287.5
25°	524.8	503.7	486.6	466.5	447.4	427.3	405.1	385.0	361.9	345.8	321.7
27.5°	619.3	599.2	576.1	549.9	530.8	500.7	471.5	446.4	419.2	394.1	366.9
30°	739.9	710.8	686.6	661.5	623.3	594.1	560.0	525.8	488.6	463.5	422.2
32.5°	884.7	853.5	817.3	781.1	746.0	704.7	662.5	620.3	579.1	532.8	490.6
35°	1061.6	1024.4	983.2	944.0	889.7	845.5	792.2	733.9	687.6	634.4	581.1
37.5°	1295.9	1234.5	1198.3	1157.1	1083.7	1023.4	964.1	905.8	824.4	768.1	692.7
40°	1589.4	1553.2	1493.9	1427.6	1361.2	1281.8	1201.4	1124.0	1029.5	951.0	863.6
42.5°	1934.2	1881.0	1820.6	1725.1	1657.8	1564.3	1472.8	1370.3	1254.6	1154.1	1051.6
45°	2258.0	2194.6	2148.4	2052.9	1982.5	1871.9	1761.3	1652.8	1519.0	1389.4	1270.7
47.5°	2607.8	2555.5	2479.1	2401.7	2330.3	2205.7	2086.0	1954.4	1813.6	1659.8	1506.0
50°	2915.4	2874.2	2821.9	2728.5	2649.0	2544.5	2403.7	2260.0	2082.0	1929.2	1754.3
52.5°	3176.8	3144.7	3071.3	3004.9	2933.5	2835.0	2709.3	2571.6	2379.6	2211.7	2012.7
55°	3485.5	3462.3	3398.0	3356.8	3293.4	3198.9	3081.3	2953.6	2750.6	2567.6	2342.4
57.5°	3991.1	3973.0	3916.7	3899.7	3837.3	3754.9	3610.1	3473.4	3236.1	3008.9	2751.6
60°	4828.6	4792.4	4709.9	4667.7	4536.0	4425.4	4237.4	4049.4	3762.9	3473.4	3163.8
62.5°	5725.3	5623.8	5467.0	5332.2	5145.3	4953.2	4701.9	4414.4	4078.6	3734.8	3378.9
65°	6208.9	6036.0	5837.9	5623.8	5381.5	5099.0	4782.3	4437.5	4076.6	3713.7	3337.7
66°	6264.2	6069.1	5859.0	5620.8	5351.3	5050.8	4729.0	4367.1	3992.1	3638.3	3262.3
67.5°	6194.8	5990.7	5768.6	5504.2	5212.6	4901.0	4563.2	4187.2	3826.3	3467.4	3101.4
70°	5709.2	5506.2	5308.1	5029.6	4719.0	4405.3	4085.6	3665.4	3323.6	2993.9	2668.1
72.5°	4559.1	4421.4	4225.4	3987.1	3684.5	3316.6	3050.2	2674.2	2377.6	2057.9	1805.6
75°	2849.1	2655.1	2412.8	2109.2	1877.9	1579.4	1423.5	1138.0	969.1	821.4	678.6
77.5°	1456.7	1310.9	1141.0	970.1	806.3	643.4	497.6	351.9	237.3	164.9	122.6
80°	1203.4	1074.7	933.9	778.1	633.4	491.6	353.9	241.3	153.8	100.5	78.4
82.5°	994.3	885.7	760.0	615.3	489.6	386.0	268.4	174.9	108.6	70.4	55.3
85°	423.2	384.0	296.6	235.2	176.9	130.7	91.5	61.3	43.2	35.2	32.2
87.5°	18.1	20.1	19.1	15.1	11.1	11.1	10.1	8.0	8.0	8.0	8.0
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):**

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	164.9	163.9	162.9	162.9	161.9	160.9	154.8	149.8	143.8	139.7	135.7
5°	171.9	170.9	168.9	167.9	165.9	164.9	151.8	140.7	131.7	124.7	119.6
7.5°	178.9	177.9	174.9	171.9	170.9	168.9	147.8	133.7	121.6	113.6	108.6
10°	188.0	185.0	182.0	177.9	174.9	171.9	143.8	125.7	112.6	105.6	100.5
12.5°	201.1	196.0	191.0	186.0	182.0	176.9	141.8	118.6	105.6	97.5	92.5
15°	216.1	209.1	203.1	197.0	190.0	185.0	137.7	112.6	99.5	91.5	85.5
17.5°	230.2	222.2	213.1	204.1	197.0	190.0	133.7	106.6	93.5	85.5	79.4
20°	250.3	238.3	227.2	216.1	206.1	197.0	127.7	100.5	88.5	79.4	73.4
22.5°	272.4	258.4	244.3	229.2	216.1	204.1	122.6	95.5	83.4	74.4	67.4
25°	300.6	283.5	264.4	245.3	230.2	214.1	117.6	90.5	78.4	69.4	62.3
27.5°	339.8	315.7	294.6	270.4	247.3	229.2	113.6	86.5	73.4	64.3	57.3
30°	393.1	357.9	324.7	298.6	271.4	245.3	109.6	81.4	69.4	59.3	51.3
32.5°	452.4	411.2	373.0	333.8	299.6	269.4	105.6	77.4	64.3	54.3	47.3
35°	525.8	473.5	422.2	377.0	335.8	295.6	101.5	73.4	60.3	49.3	42.2
37.5°	631.3	566.0	498.6	440.3	387.0	333.8	98.5	69.4	55.3	44.2	37.2
40°	776.1	691.7	609.2	529.8	460.4	394.1	94.5	65.3	51.3	40.2	33.2
42.5°	932.9	830.4	721.8	632.3	536.8	453.4	90.5	61.3	47.3	36.2	29.2
45°	1128.0	1000.3	868.6	747.0	630.3	522.8	86.5	57.3	42.2	32.2	25.1
47.5°	1341.1	1178.2	1029.5	876.6	737.9	609.2	81.4	54.3	38.2	28.1	22.1
50°	1560.3	1388.4	1200.4	1026.4	861.6	695.7	76.4	49.3	34.2	25.1	18.1
52.5°	1796.5	1593.4	1401.4	1185.3	993.3	809.3	71.4	45.2	31.2	22.1	15.1
55°	2097.1	1869.9	1644.7	1402.4	1171.2	941.0	66.4	40.2	27.1	19.1	12.1
57.5°	2475.1	2205.7	1929.2	1655.8	1375.3	1113.9	62.3	35.2	23.1	16.1	10.1
60°	2832.0	2517.3	2182.6	1867.9	1551.2	1246.6	56.3	31.2	20.1	13.1	10.1
62.5°	3017.0	2658.1	2297.2	1950.3	1612.5	1293.9	50.3	26.1	17.1	11.1	9.0
65°	2971.7	2605.8	2255.9	1906.1	1575.3	1263.7	44.2	23.1	15.1	10.1	9.0
66°	2906.4	2544.5	2192.6	1859.9	1544.2	1231.5	41.2	22.1	14.1	10.1	8.0
67.5°	2763.6	2413.8	2078.0	1768.4	1458.7	1170.2	37.2	20.1	13.1	9.0	8.0
70°	2360.5	2042.8	1774.4	1498.9	1246.6	986.2	30.2	17.1	11.1	8.0	8.0
72.5°	1562.3	1346.1	1167.2	1004.3	839.4	651.5	25.1	14.1	9.0	8.0	7.0
75°	589.1	532.8	457.4	411.2	358.9	314.7	20.1	9.0	7.0	7.0	7.0
77.5°	104.6	96.5	85.5	78.4	72.4	66.4	16.1	6.0	6.0	7.0	7.0
80°	70.4	65.3	59.3	54.3	50.3	45.2	11.1	5.0	6.0	6.0	7.0
82.5°	50.3	47.3	44.2	40.2	37.2	33.2	7.0	5.0	6.0	6.0	6.0
85°	30.2	28.1	26.1	24.1	21.1	20.1	5.0	5.0	5.0	6.0	6.0
87.5°	8.0	7.0	8.0	8.0	6.0	7.0	4.0	4.0	4.0	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):**

	145°	155°	165°	175°	180°
0°	157.8	157.8	157.8	157.8	157.8
2.5°	133.7	133.7	131.7	134.7	134.7
5°	115.6	115.6	114.6	115.6	115.6
7.5°	105.6	104.6	104.6	104.6	105.6
10°	96.5	95.5	95.5	95.5	95.5
12.5°	88.5	87.5	86.5	87.5	87.5
15°	81.4	79.4	79.4	79.4	79.4
17.5°	75.4	73.4	72.4	72.4	72.4
20°	69.4	66.4	66.4	66.4	66.4
22.5°	63.3	60.3	60.3	60.3	60.3
25°	57.3	54.3	54.3	54.3	54.3
27.5°	52.3	49.3	49.3	49.3	49.3
30°	46.2	44.2	44.2	45.2	44.2
32.5°	42.2	39.2	39.2	40.2	40.2
35°	37.2	35.2	35.2	35.2	35.2
37.5°	32.2	30.2	30.2	30.2	30.2
40°	28.1	26.1	25.1	26.1	26.1
42.5°	24.1	22.1	21.1	21.1	21.1
45°	21.1	18.1	17.1	18.1	18.1
47.5°	17.1	15.1	15.1	16.1	16.1
50°	13.1	13.1	14.1	16.1	16.1
52.5°	12.1	12.1	14.1	16.1	16.1
55°	11.1	12.1	14.1	15.1	16.1
57.5°	10.1	12.1	14.1	15.1	15.1
60°	10.1	11.1	13.1	15.1	15.1
62.5°	9.0	10.1	12.1	14.1	14.1
65°	9.0	10.1	12.1	14.1	14.1
66°	9.0	10.1	12.1	14.1	14.1
67.5°	9.0	10.1	12.1	14.1	14.1
70°	9.0	10.1	12.1	13.1	13.1
72.5°	8.0	9.0	11.1	13.1	13.1
75°	8.0	9.0	11.1	13.1	13.1
77.5°	8.0	9.0	11.1	13.1	13.1
80°	8.0	9.0	11.1	12.1	13.1
82.5°	7.0	9.0	10.1	12.1	12.1
85°	7.0	8.0	10.1	11.1	12.1
87.5°	6.0	7.0	8.0	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)