

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: P152769

Luminaire Tested: **VWM-E01-LED-E1-SLL-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P152769  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VWM-E01-LED-E1-SLL-7030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2541.4 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7  
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

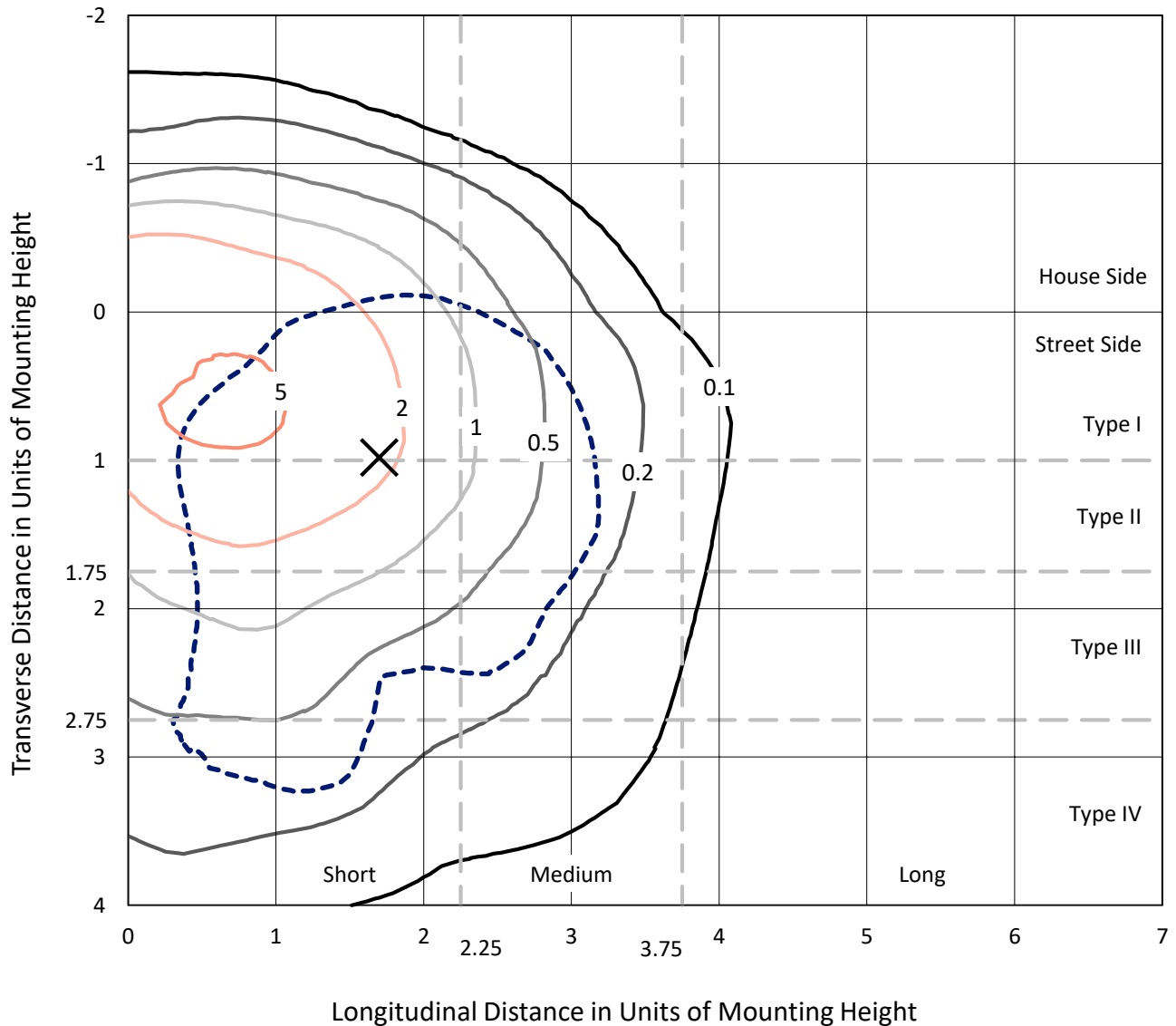


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### Iso-Footcandle Lines of Horizontal Illumination

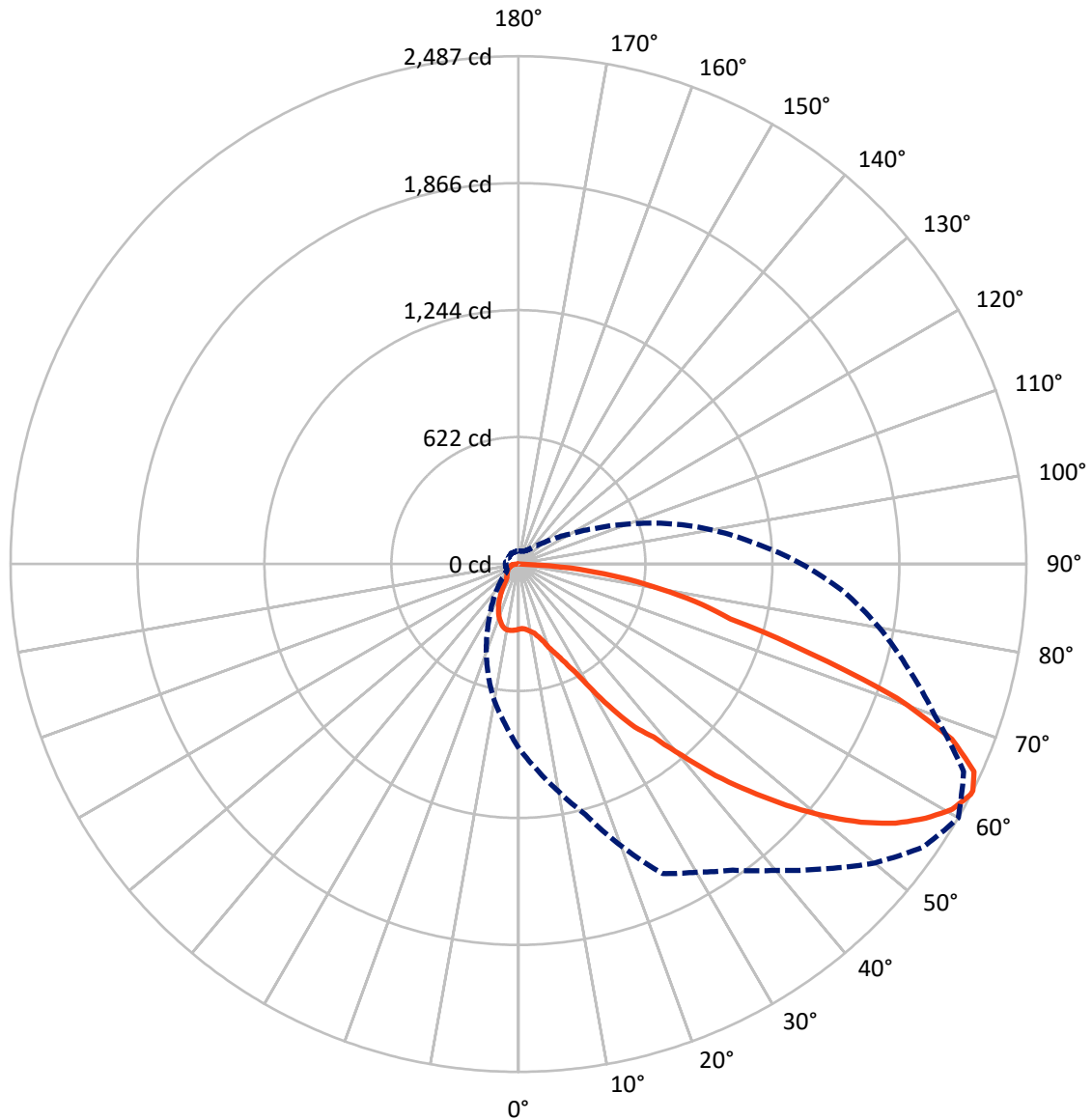
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	551.1	0.0	551.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	1990.3	0.0	1990.3
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	2541.4	0.0	2541.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.1	1.2
10°-20°	96.8	3.8
20°-30°	172.0	6.8
30°-40°	270.9	10.7
40°-50°	398.6	15.7
50°-60°	529.5	20.8
60°-70°	583.3	23.0
70°-80°	365.9	14.4
80°-90°	93.2	3.7
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°	2541.4	100.0
0°-180°	2541.4	100.0



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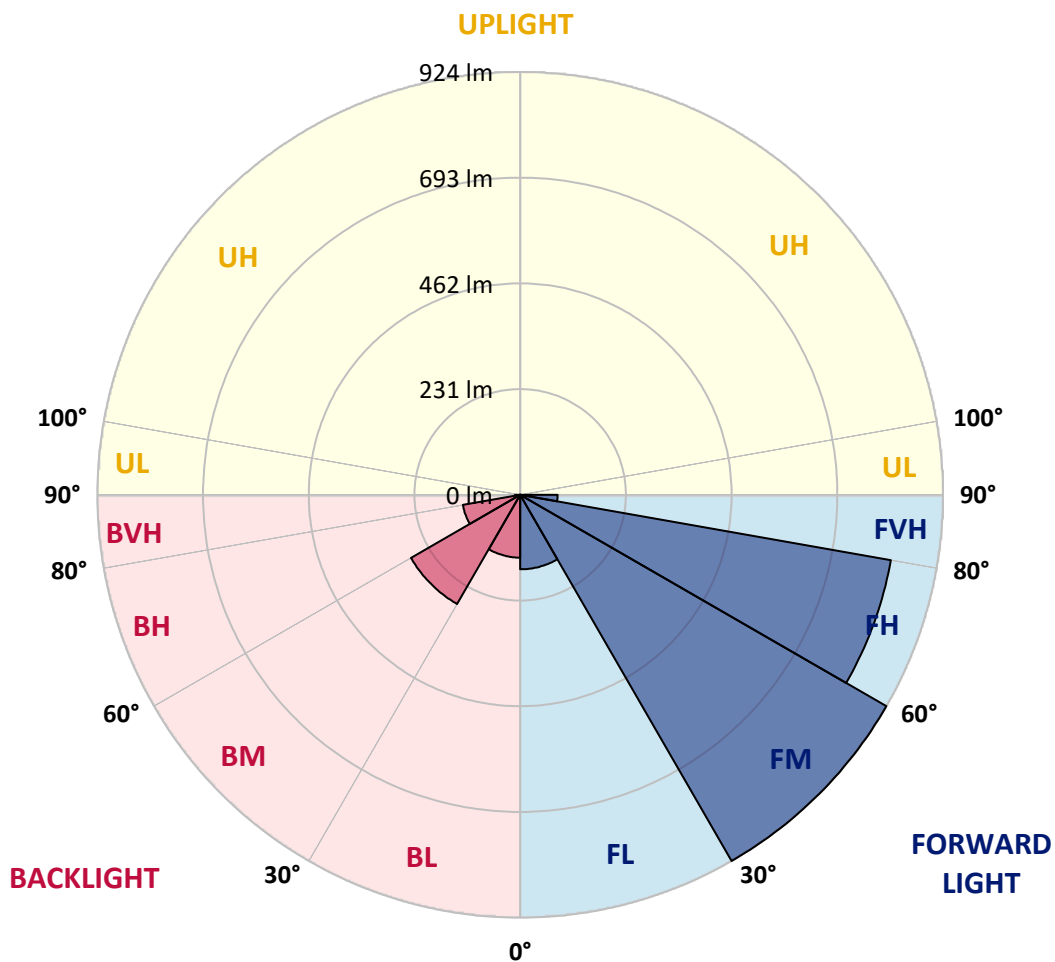
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	162.7	6.4			
FM	(30°-60°)	923.6	36.3			
FH	(60°-80°)	822.2	32.4			G1/1800
FVH	(80°-90°)	81.8	3.2			G1/100
BL	(0°-30°)	137.2	5.4	B1/500		
BM	(30°-60°)	275.4	10.8	B1/1000		
BH	(60°-80°)	127.0	5.0	B1/500		G1/500
BVH	(80°-90°)	11.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4
2.5°	315.1	315.7	315.7	315.4	315.4	316.0	315.7	315.4	314.5	315.7	315.7
5°	312.7	313.3	313.3	313.9	314.5	315.1	315.1	315.7	315.4	316.6	317.5
7.5°	315.7	316.3	317.5	319.1	320.0	322.1	322.1	323.6	324.2	325.2	324.8
10°	319.7	321.2	323.9	326.4	328.2	330.6	332.5	334.6	334.6	335.5	336.1
12.5°	326.7	328.2	331.2	334.3	337.0	340.1	342.8	344.9	347.1	347.7	348.9
15°	338.2	340.1	344.6	348.9	352.2	356.2	359.9	364.1	368.1	369.0	369.6
17.5°	355.6	359.3	362.6	370.2	375.1	380.3	386.0	392.1	393.3	399.7	401.3
20°	380.3	384.8	387.9	397.3	405.5	412.2	420.8	427.8	430.5	436.6	442.7
22.5°	422.9	422.0	426.5	436.0	442.1	455.5	462.8	470.1	473.7	482.9	487.7
25°	480.1	485.0	495.0	495.9	501.7	517.3	526.7	534.0	534.3	537.0	542.2
27.5°	536.4	556.5	572.4	580.9	596.4	610.7	610.1	620.5	604.3	607.7	612.6
30°	604.6	638.1	668.0	688.1	703.9	720.6	728.9	734.6	727.6	724.6	718.8
32.5°	668.6	715.5	761.4	797.1	826.6	854.3	872.6	880.8	890.5	915.2	924.0
35°	712.4	778.8	836.0	887.5	936.8	980.9	1012.9	1031.2	1024.2	1020.8	1019.0
37.5°	738.6	819.6	891.1	963.9	1020.5	1086.6	1136.2	1184.3	1195.3	1176.1	1166.7
40°	755.0	850.9	942.9	1028.7	1102.1	1187.4	1248.9	1321.0	1375.8	1383.1	1360.6
42.5°	763.0	871.9	979.1	1076.2	1175.5	1279.9	1357.8	1445.2	1527.1	1583.4	1569.4
45°	764.2	885.6	1005.6	1119.2	1237.3	1361.2	1461.7	1558.5	1668.1	1764.6	1767.3
47.5°	764.2	896.0	1023.9	1150.2	1292.7	1431.8	1541.4	1655.9	1790.2	1904.3	1939.3
50°	764.8	903.0	1040.9	1174.6	1335.0	1491.5	1615.4	1750.6	1891.9	2016.1	2083.7
52.5°	767.5	908.2	1054.3	1191.9	1362.4	1533.5	1673.0	1828.8	1969.5	2097.1	2184.4
55°	773.6	915.5	1064.1	1202.6	1380.7	1560.9	1714.7	1882.4	2019.7	2149.1	2271.2
57.5°	790.7	928.3	1075.9	1212.0	1390.7	1578.9	1743.9	1905.6	2038.9	2173.8	2317.2
60°	824.8	955.4	1096.3	1230.9	1407.5	1612.1	1757.9	1890.0	2024.9	2166.5	2327.5
62.5°	879.3	997.7	1124.6	1262.9	1455.3	1663.5	1747.2	1843.7	1969.8	2124.1	2290.7
63°	898.1	1006.8	1131.0	1269.9	1468.4	1673.0	1742.7	1830.0	1958.5	2110.8	2277.6
65°	950.8	1047.3	1161.5	1305.2	1522.3	1682.4	1707.1	1758.8	1880.6	2034.3	2200.3
67.5°	1049.1	1145.6	1226.9	1364.8	1567.6	1645.2	1596.5	1602.9	1730.2	1889.4	2038.6
70°	1111.2	1226.3	1268.6	1372.5	1559.4	1590.1	1453.4	1368.8	1470.8	1652.3	1782.9
72.5°	1095.1	1227.2	1222.7	1271.1	1395.0	1423.6	1282.0	1148.7	1209.3	1344.8	1429.4
75°	938.0	1096.0	1062.5	1052.8	1096.3	1115.2	1008.9	988.5	1065.0	1140.2	1141.4
77.5°	675.3	849.1	809.8	753.5	750.5	794.0	808.3	942.0	1054.9	1114.3	1088.1
80°	430.2	618.6	577.8	479.5	478.0	534.6	660.4	842.1	961.8	994.9	926.7
82.5°	224.7	404.9	420.4	359.9	411.9	505.7	628.4	678.6	724.0	728.5	648.2
85°	140.0	249.0	292.9	302.3	372.0	448.5	447.5	429.9	409.8	350.7	317.2
87.5°	15.8	31.4	47.5	45.1	60.6	84.9	105.9	62.1	43.5	15.8	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4
2.5°	316.3	316.6	316.9	316.9	318.5	318.2	318.5	319.1	320.0	320.6	321.2
5°	318.8	318.8	320.0	320.9	322.7	323.9	324.5	326.4	328.5	327.9	329.7
7.5°	326.7	326.4	327.6	328.2	329.7	331.9	331.5	333.1	334.9	335.5	337.0
10°	337.3	336.4	336.4	335.8	336.1	335.5	335.5	335.5	336.7	336.4	337.6
12.5°	348.3	348.0	347.4	345.6	345.6	343.1	341.9	340.4	340.1	337.9	338.2
15°	370.8	370.8	369.6	365.9	362.9	360.8	357.7	355.6	352.6	348.6	346.5
17.5°	403.7	399.4	397.9	397.3	392.4	390.6	383.9	376.9	373.6	368.1	365.0
20°	443.9	443.0	436.9	433.8	427.8	419.2	410.7	401.6	396.1	389.4	385.7
22.5°	489.3	482.6	479.5	474.9	465.5	455.8	443.0	430.8	422.3	417.7	415.0
25°	542.2	535.5	532.5	526.4	514.8	504.5	488.6	474.3	466.7	459.1	454.8
27.5°	612.6	606.2	602.5	586.7	582.7	565.7	546.2	526.7	516.7	505.4	498.1
30°	717.6	717.9	699.0	679.8	660.0	630.5	610.1	588.2	571.8	555.6	539.5
32.5°	895.1	849.7	814.7	773.6	730.7	699.3	674.1	647.9	625.0	601.6	574.8
35°	1003.5	981.5	936.2	861.0	817.8	779.7	751.7	720.0	692.0	650.6	609.8
37.5°	1125.9	1075.0	1019.9	978.2	929.2	885.0	838.2	802.2	753.8	698.1	640.3
40°	1304.6	1231.8	1165.4	1109.4	1046.1	999.8	947.4	895.4	831.1	750.5	671.0
42.5°	1491.2	1416.0	1328.3	1255.6	1181.0	1126.8	1061.9	988.9	894.5	794.6	697.5
45°	1687.0	1586.5	1481.5	1392.6	1314.9	1247.6	1167.3	1070.4	955.4	834.2	722.2
47.5°	1880.0	1764.6	1639.5	1543.9	1442.8	1360.6	1261.9	1139.6	1002.9	871.6	746.8
50°	2050.2	1939.0	1788.3	1666.9	1564.6	1463.2	1340.2	1192.8	1040.3	903.9	769.0
52.5°	2196.9	2101.3	1942.7	1789.3	1671.4	1557.6	1403.2	1235.8	1078.1	933.7	787.3
55°	2304.7	2241.1	2094.9	1904.6	1765.5	1629.7	1456.5	1277.2	1113.7	957.5	799.2
57.5°	2386.0	2350.7	2225.2	2013.3	1852.0	1699.7	1511.6	1326.8	1149.0	977.9	804.7
60°	2430.4	2440.2	2323.9	2108.3	1928.4	1758.2	1566.7	1369.1	1175.2	989.8	801.6
62.5°	2426.2	2485.8	2397.8	2166.8	1972.8	1792.9	1603.8	1388.9	1171.5	970.9	773.9
63°	2417.9	2487.4	2406.1	2170.7	1975.6	1794.1	1604.8	1386.2	1163.9	961.8	763.0
65°	2347.0	2452.3	2399.1	2152.8	1951.2	1771.3	1585.6	1346.6	1110.3	912.7	706.6
67.5°	2157.0	2288.9	2273.6	2025.8	1835.8	1676.9	1487.5	1219.0	977.9	792.2	598.9
70°	1843.1	1967.1	1969.8	1761.9	1603.2	1447.4	1290.0	991.9	775.1	614.1	446.6
72.5°	1412.6	1492.4	1520.1	1383.1	1276.9	1167.3	1026.0	720.0	552.6	417.7	290.7
75°	1093.9	1072.0	1071.7	1013.8	970.6	917.0	761.7	485.9	362.9	271.6	177.8
77.5°	983.4	885.9	791.6	722.2	687.4	669.5	499.6	292.9	214.0	156.2	102.3
80°	811.1	667.4	539.2	464.3	434.5	455.2	278.6	158.3	117.2	88.9	66.4
82.5°	559.3	464.3	352.9	292.3	250.9	262.4	142.5	81.0	54.2	49.6	41.1
85°	291.4	255.4	215.6	185.1	163.5	143.7	74.0	38.7	22.5	19.8	18.0
87.5°	0.0	0.3	0.0	0.0	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	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4
2.5°	322.1	321.8	322.4	322.7	323.6	324.2	324.5	323.9	324.8	325.8	325.2
5°	330.6	332.8	333.1	334.0	334.0	335.8	335.8	335.8	335.5	335.8	335.2
7.5°	337.9	340.7	341.0	342.2	342.5	344.6	343.7	344.3	344.3	342.8	342.2
10°	338.9	341.6	343.1	344.6	346.8	349.5	349.5	351.0	351.0	349.8	349.5
12.5°	339.2	341.3	342.8	344.9	348.0	351.9	354.1	356.2	357.1	356.8	355.9
15°	345.6	345.6	345.9	347.7	349.8	354.7	357.7	360.2	361.7	361.1	359.6
17.5°	362.3	359.9	358.0	355.0	355.6	358.0	359.9	362.0	362.3	361.7	359.3
20°	381.8	378.7	374.2	369.3	366.9	365.0	363.8	363.8	362.9	359.9	355.9
22.5°	409.5	405.5	399.1	391.8	387.0	381.2	374.2	367.5	360.2	352.9	344.3
25°	447.8	442.4	435.7	424.4	414.1	401.9	387.6	372.6	355.3	340.1	327.6
27.5°	486.5	474.3	457.0	441.5	422.3	404.0	383.6	365.3	343.1	324.8	311.1
30°	518.5	495.3	470.4	445.7	420.4	395.8	371.4	349.5	325.2	306.6	293.2
32.5°	543.1	511.2	476.5	444.2	413.1	383.0	355.0	330.6	306.0	286.8	272.5
35°	566.0	521.5	477.4	437.5	399.1	367.8	336.1	309.6	283.4	263.3	247.8
37.5°	583.0	526.4	471.9	425.0	380.9	345.9	313.6	286.5	259.7	237.8	220.1
40°	594.0	523.3	460.0	407.0	359.3	322.4	289.5	261.5	235.6	211.6	190.3
42.5°	602.8	519.4	448.2	390.6	342.2	302.0	268.2	238.1	211.9	185.7	162.3
45°	615.9	522.4	443.0	379.0	327.0	284.7	247.5	216.2	188.8	163.2	140.7
47.5°	628.7	524.0	435.4	364.7	307.8	266.7	228.9	198.5	170.5	147.0	126.3
50°	640.3	523.0	423.5	346.5	289.2	248.7	212.2	181.8	154.1	132.4	113.0
52.5°	645.7	517.9	408.9	328.8	274.3	232.9	195.8	166.2	138.8	118.4	100.5
55°	645.1	504.5	389.7	312.1	257.9	216.2	179.6	150.4	125.7	106.9	91.3
57.5°	636.0	483.8	369.3	293.5	236.3	195.5	160.7	132.4	111.7	95.9	82.8
60°	616.8	457.3	342.5	266.4	209.2	169.9	137.3	113.0	96.2	84.0	75.5
62.5°	580.9	419.2	309.0	228.6	172.6	136.7	108.4	92.6	80.1	72.8	68.8
63°	570.2	408.9	294.7	219.5	164.1	129.1	102.3	85.9	76.7	70.3	66.7
65°	517.3	358.0	246.6	177.2	127.6	99.6	82.2	69.7	64.2	61.5	61.2
67.5°	418.9	281.6	174.4	121.5	86.8	71.9	63.0	57.8	55.4	54.8	55.4
70°	294.1	177.8	110.8	80.7	64.2	57.8	53.9	51.8	50.2	50.5	51.1
72.5°	187.5	106.6	76.1	61.2	54.2	50.8	49.0	48.4	48.1	47.8	47.8
75°	106.9	70.9	58.5	53.0	49.3	46.6	45.1	44.4	44.8	45.1	44.4
77.5°	70.6	58.5	52.1	48.4	45.1	42.0	41.1	40.8	41.4	42.0	42.0
80°	55.7	52.1	48.4	44.8	39.3	37.1	37.8	38.1	37.8	38.1	37.1
82.5°	39.3	38.7	39.6	38.1	32.6	30.7	30.1	30.4	29.8	29.8	29.2
85°	18.3	18.3	19.2	19.2	18.6	18.9	20.4	22.2	23.1	22.2	21.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	5.5	7.9	8.5	10.7	10.4
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4
2.5°	324.2	324.8	324.5	324.2	324.8	324.2	324.5	324.2	324.2	323.9	323.9
5°	334.6	335.5	333.7	333.4	332.8	331.2	331.2	330.6	330.6	329.4	328.5
7.5°	341.3	341.6	340.1	339.8	338.2	336.7	335.5	334.3	334.0	333.1	331.2
10°	347.7	347.1	345.9	344.3	342.8	340.7	339.2	337.6	337.3	335.8	333.7
12.5°	353.2	352.9	350.4	348.9	346.5	344.3	342.5	340.7	339.8	337.9	334.9
15°	356.8	355.0	351.9	349.2	346.5	344.0	341.9	339.8	338.9	336.7	333.7
17.5°	355.3	351.9	348.0	344.6	341.0	337.9	336.1	334.0	332.5	331.2	327.0
20°	349.8	344.9	338.9	334.9	330.0	326.1	324.8	322.7	321.5	316.9	311.5
22.5°	335.5	328.5	320.9	315.1	309.6	305.7	302.6	300.5	297.4	294.7	286.2
25°	317.5	309.6	301.7	294.7	287.4	281.3	275.8	270.7	269.1	263.3	255.1
27.5°	300.2	291.4	283.4	275.2	265.8	258.2	248.7	241.4	236.6	230.5	222.9
30°	281.6	272.8	262.1	251.2	240.2	232.0	221.3	212.5	206.4	200.0	193.0
32.5°	258.2	247.5	234.7	222.6	212.5	202.8	192.1	183.6	177.5	171.7	165.0
35°	231.4	217.4	203.7	190.3	179.6	171.4	162.0	155.6	151.3	146.1	139.1
37.5°	200.6	184.8	170.2	159.8	150.4	142.5	135.8	131.8	127.3	124.5	120.3
40°	169.6	154.1	139.7	130.3	122.4	117.8	114.2	113.3	110.2	106.6	103.8
42.5°	142.2	127.3	113.3	105.6	100.5	99.3	97.4	97.4	95.9	93.2	91.3
45°	123.6	108.1	95.9	90.4	87.7	87.4	86.5	86.5	86.2	84.9	82.8
47.5°	110.2	96.2	86.8	83.4	82.8	82.2	81.3	81.0	80.7	79.8	78.5
50°	98.0	86.2	80.1	78.5	78.9	77.9	77.0	76.1	75.8	74.9	73.7
52.5°	86.8	78.2	74.3	73.4	73.4	73.4	72.8	72.8	72.2	71.9	70.6
55°	80.4	74.0	71.9	71.5	71.2	70.9	70.3	70.3	69.7	69.4	67.9
57.5°	74.9	70.9	69.7	69.1	68.8	68.2	67.9	67.9	67.9	67.9	66.1
60°	70.6	68.8	68.5	67.9	67.6	66.4	65.8	65.5	65.8	66.1	64.2
62.5°	66.1	65.8	65.5	64.8	64.5	63.3	62.4	61.8	62.4	63.0	62.7
63°	64.8	64.5	64.5	64.2	63.9	62.4	61.5	60.9	61.5	62.1	62.1
65°	60.6	60.9	60.9	60.6	60.3	59.4	58.1	57.5	57.8	58.8	59.1
67.5°	56.0	56.3	56.0	56.3	56.0	55.4	54.5	53.9	53.6	53.9	54.2
70°	51.8	52.4	52.1	51.8	51.5	51.5	50.8	49.9	49.6	49.3	49.3
72.5°	48.1	48.1	47.5	47.5	47.2	47.2	46.6	45.7	45.4	45.4	44.8
75°	44.1	44.1	43.2	43.2	42.6	42.9	42.3	41.4	41.1	41.1	40.8
77.5°	41.7	40.8	39.3	39.0	38.7	38.7	38.4	37.4	37.1	37.1	36.8
80°	36.8	35.0	33.5	33.2	33.5	34.1	34.1	33.5	33.5	33.5	33.5
82.5°	28.6	28.0	27.1	26.5	26.5	27.4	28.6	29.2	29.8	30.4	30.4
85°	21.0	21.3	21.0	20.1	19.8	20.7	21.9	23.1	23.4	24.7	24.4
87.5°	11.3	11.6	10.7	10.4	11.3	11.9	13.1	13.4	14.0	14.3	14.6
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4
2.5°	323.6	323.3	323.6	323.0	323.0	322.4	321.8	321.5	320.9	320.6	320.0
5°	329.1	328.2	327.3	327.0	325.8	324.5	323.6	322.1	320.9	318.8	318.2
7.5°	332.8	330.6	329.4	329.1	327.3	326.4	324.2	322.4	320.6	317.8	316.9
10°	334.3	332.2	330.0	329.1	327.0	325.5	323.3	320.6	319.1	316.3	315.7
12.5°	336.1	332.2	328.8	326.4	323.3	320.0	317.8	316.3	314.2	312.7	312.1
15°	332.8	327.6	322.4	317.8	313.0	309.3	307.2	304.8	302.3	301.4	301.4
17.5°	323.6	316.9	308.1	302.3	297.1	293.2	290.4	288.0	287.7	286.5	287.1
20°	304.8	295.9	287.4	283.1	280.1	277.7	274.9	273.7	272.8	271.0	270.4
22.5°	278.6	271.3	265.2	262.1	259.7	256.7	254.2	250.6	249.6	247.8	246.9
25°	249.6	243.9	238.7	236.6	235.0	230.8	229.3	224.4	221.0	218.9	220.1
27.5°	220.7	216.5	211.6	208.9	207.9	204.0	202.5	197.0	194.2	194.2	191.2
30°	190.9	186.9	183.9	180.8	180.2	175.4	171.4	169.3	166.2	165.0	162.9
32.5°	162.9	158.9	156.5	155.0	152.5	148.6	144.6	141.0	136.1	134.3	133.3
35°	137.0	134.0	130.9	129.7	126.3	122.1	117.2	114.2	108.4	106.3	105.3
37.5°	117.2	113.6	111.4	108.1	104.7	100.2	96.5	93.8	91.6	90.7	90.7
40°	101.4	98.6	96.2	93.5	90.7	88.3	86.5	85.9	85.6	85.6	86.2
42.5°	89.5	87.1	85.9	84.3	83.4	83.4	83.1	83.4	83.7	84.0	84.9
45°	81.6	80.1	79.5	79.2	79.8	80.4	80.7	81.3	82.5	83.1	83.4
47.5°	77.3	76.1	75.8	76.1	77.0	78.2	79.5	80.4	81.3	81.6	81.9
50°	73.1	71.5	70.9	71.5	72.8	74.6	75.5	77.0	77.6	78.2	77.6
52.5°	69.4	68.2	67.9	67.9	69.1	70.3	71.5	72.8	73.1	73.1	72.8
55°	66.4	65.5	64.5	65.2	66.1	67.3	69.1	70.0	70.6	70.9	70.9
57.5°	63.9	63.0	62.1	62.7	63.6	64.8	66.7	67.6	68.2	69.1	69.4
60°	62.1	60.9	60.0	60.9	61.8	63.6	65.2	66.1	67.6	67.9	67.9
62.5°	60.3	59.1	57.5	58.5	58.5	59.4	60.9	62.1	63.6	64.2	64.2
63°	60.0	58.8	57.2	57.8	57.8	58.5	59.7	60.9	62.7	63.3	63.0
65°	57.5	57.2	55.7	55.7	55.1	55.7	56.6	57.8	58.8	59.7	59.7
67.5°	53.6	53.3	53.0	53.0	53.0	53.6	54.2	55.1	56.0	56.6	56.3
70°	49.0	49.0	49.0	49.3	49.3	49.9	50.2	49.9	50.8	51.5	51.1
72.5°	45.1	44.8	44.4	45.1	44.8	44.8	45.4	45.1	46.0	46.0	46.3
75°	40.8	40.5	40.5	40.8	40.2	39.6	39.9	39.9	40.2	40.2	40.8
77.5°	37.1	37.1	37.1	36.8	36.2	35.9	35.6	35.6	35.6	35.6	35.9
80°	33.8	33.8	33.8	33.5	32.9	32.3	31.7	31.4	31.1	29.5	29.5
82.5°	30.4	30.4	30.4	30.4	30.1	29.5	28.6	26.2	25.0	23.7	24.1
85°	24.1	24.7	25.3	26.2	25.9	25.9	24.1	21.0	19.2	18.0	18.3
87.5°	15.5	13.7	13.7	13.4	12.8	12.2	12.2	10.4	8.5	7.6	7.9
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	0°
2.5°	320.0	319.4	318.8	318.8	317.8	317.8	317.2	318.5	317.2	316.3	316.3	2.5°
5°	317.5	316.9	315.1	314.8	313.6	313.6	313.6	313.0	313.0	312.4	312.1	5°
7.5°	316.0	314.5	313.0	312.1	312.1	311.5	312.7	312.1	312.4	312.4	312.7	7.5°
10°	314.8	313.6	313.0	312.7	312.7	313.6	314.5	314.8	314.5	314.8	314.8	10°
12.5°	311.8	312.4	312.7	313.9	315.4	317.2	319.4	319.7	320.3	320.3	320.9	12.5°
15°	302.0	303.5	305.4	308.4	312.4	316.3	320.3	323.6	326.7	328.2	329.4	15°
17.5°	288.3	289.8	293.2	296.5	301.7	307.5	314.2	320.0	326.4	332.2	337.9	17.5°
20°	269.7	272.2	273.1	279.2	285.3	293.2	301.1	310.2	321.2	332.2	343.4	20°
22.5°	245.7	248.4	252.7	257.6	264.0	273.7	283.1	297.4	312.1	327.6	345.2	22.5°
25°	218.9	221.9	225.6	230.8	237.2	247.5	261.2	276.4	294.4	314.8	336.7	25°
27.5°	191.2	194.2	197.3	200.9	208.2	219.2	235.3	251.2	271.0	293.2	318.8	27.5°
30°	163.5	163.8	165.6	170.2	177.8	192.1	204.0	223.8	244.5	267.9	297.4	30°
32.5°	133.0	132.7	134.9	138.8	146.1	159.8	174.4	193.6	214.0	243.6	274.0	32.5°
35°	105.9	105.9	109.9	113.9	122.1	131.8	144.6	161.7	185.7	213.1	243.6	35°
37.5°	91.6	93.8	96.2	100.2	106.6	114.2	125.4	140.4	159.2	185.4	213.4	37.5°
40°	87.1	88.3	90.4	94.1	99.6	106.6	114.8	126.0	140.7	161.7	187.2	40°
42.5°	85.2	85.6	86.8	89.5	94.4	101.4	109.9	120.0	130.9	145.8	168.1	42.5°
45°	83.4	83.1	83.7	85.9	89.8	97.7	107.5	118.4	129.4	141.9	160.1	45°
47.5°	81.9	81.9	81.9	82.8	86.5	94.4	105.6	118.4	131.5	145.5	163.5	47.5°
50°	77.6	77.3	77.3	77.9	80.7	89.2	102.6	118.1	135.2	153.4	173.8	50°
52.5°	72.8	72.8	73.1	73.4	75.8	84.3	99.3	118.1	139.4	163.8	189.4	52.5°
55°	71.2	71.5	71.9	71.5	73.4	80.7	95.6	116.3	141.3	172.0	206.1	55°
57.5°	70.0	70.6	70.6	70.3	71.5	77.6	91.9	112.6	139.7	175.1	218.0	57.5°
60°	68.2	68.2	68.2	67.3	67.9	73.4	86.5	106.9	134.9	172.3	219.8	60°
62.5°	64.2	64.2	63.6	63.3	63.0	67.3	79.2	98.3	126.0	165.0	215.2	62.5°
63°	63.3	63.0	63.0	62.1	62.1	66.1	77.6	97.1	123.6	163.2	213.4	63°
65°	60.0	60.0	60.0	59.4	59.1	62.1	71.5	88.6	114.2	154.7	204.3	65°
67.5°	56.3	56.6	56.0	55.7	55.4	57.2	64.5	77.9	99.6	136.7	187.2	67.5°
70°	51.1	51.5	51.5	51.1	50.8	52.1	56.6	67.0	82.5	113.9	159.5	70°
72.5°	46.6	47.2	47.2	47.8	47.8	48.7	50.5	55.7	66.1	88.9	125.4	72.5°
75°	41.7	42.0	42.6	43.2	42.6	42.3	42.6	46.6	51.8	65.8	89.5	75°
77.5°	37.4	38.4	38.4	38.1	37.1	36.5	36.5	38.4	42.6	49.9	63.9	77.5°
80°	31.1	32.6	32.9	32.0	31.1	31.1	31.7	32.9	35.6	41.1	48.4	80°
82.5°	25.0	26.5	26.8	27.1	26.8	27.7	27.7	28.0	29.5	33.8	39.6	82.5°
85°	19.2	20.4	21.3	21.6	21.9	22.2	21.9	20.4	21.3	24.1	26.8	85°
87.5°	8.5	8.8	8.2	8.5	8.2	8.5	8.8	7.3	7.0	9.4	9.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
319.4	319.4	319.4	319.4	319.4	319.4	319.4
316.0	316.0	316.3	315.7	315.7	316.0	315.1
311.1	312.4	312.4	312.4	311.8	312.4	312.7
312.4	313.3	313.9	313.9	313.6	314.8	315.7
313.9	315.4	316.0	316.0	316.0	317.5	319.7
319.7	320.9	321.8	321.8	322.4	324.2	326.7
330.3	331.9	331.9	331.5	333.4	335.5	338.2
342.2	346.5	348.6	348.3	349.8	352.6	355.6
353.5	365.3	370.5	374.2	375.7	379.3	380.3
362.9	382.7	397.0	409.2	415.0	418.6	422.9
359.6	386.3	411.9	436.9	454.5	472.5	480.1
345.9	379.3	412.8	449.4	481.3	513.3	536.4
329.1	369.3	414.4	466.1	516.7	565.7	604.6
309.9	359.9	417.7	481.6	548.0	612.2	668.6
285.9	341.9	409.5	483.2	561.4	639.3	712.4
255.4	317.5	390.3	472.2	562.0	651.2	738.6
225.0	286.8	365.9	456.4	554.1	654.0	755.0
203.7	259.4	341.3	436.3	541.3	649.7	763.0
189.1	239.6	319.4	418.0	527.6	642.1	764.2
187.8	231.1	305.1	404.6	516.7	635.4	764.2
198.2	235.6	300.2	397.9	512.1	633.3	764.8
217.7	253.9	309.0	403.1	515.7	636.0	767.5
241.1	281.6	332.8	421.1	531.3	645.1	773.6
262.4	313.6	373.3	455.8	559.6	668.3	790.7
274.9	341.0	416.2	504.5	608.0	714.2	824.8
276.4	356.2	454.2	557.4	666.7	766.9	879.3
275.2	357.4	459.1	567.5	679.2	780.0	898.1
268.5	357.7	472.8	602.8	722.5	835.1	950.8
251.5	348.0	477.7	630.5	777.0	907.6	1049.1
221.9	320.3	463.4	631.1	798.0	948.1	1111.2
178.4	267.6	401.6	574.2	742.6	908.2	1095.1
130.6	196.7	303.5	444.8	605.9	755.9	938.0
86.8	127.3	204.6	316.9	434.5	544.1	675.3
59.7	78.9	119.6	190.6	265.8	319.1	430.2
43.8	52.1	66.4	97.4	127.9	157.4	224.7
27.4	29.8	33.2	48.1	68.8	92.9	140.0
7.3	7.6	7.0	9.4	14.9	14.3	15.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)