

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: McGRAW-EDISON

Report Number: P145903

Luminaire Tested: **VPL-F01-LED-E1-CPL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145903  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VPL-F01-LED-E1-CPL-8030  
Description: VALET LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT  
Light Source: (7) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1876.6 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

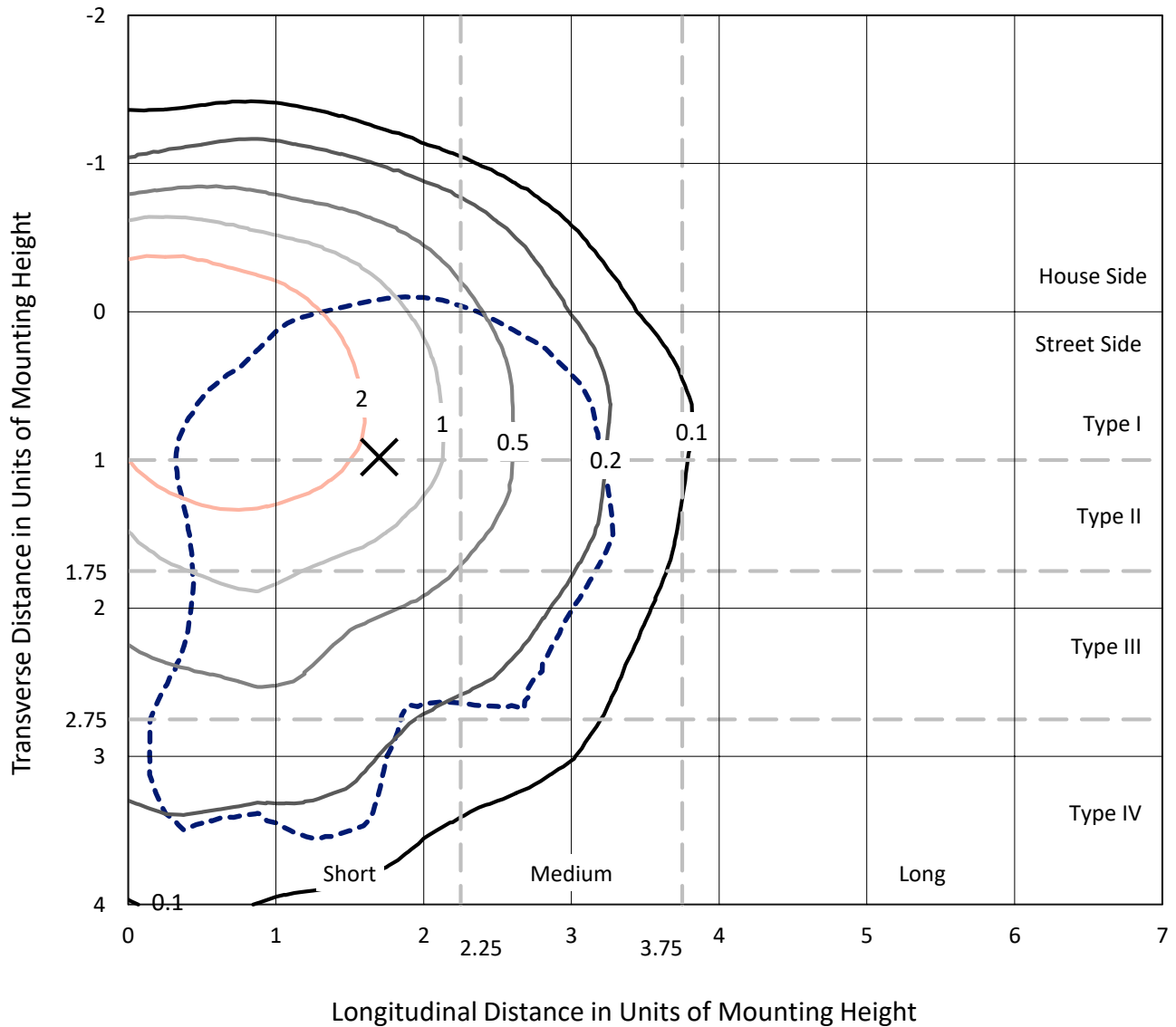
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

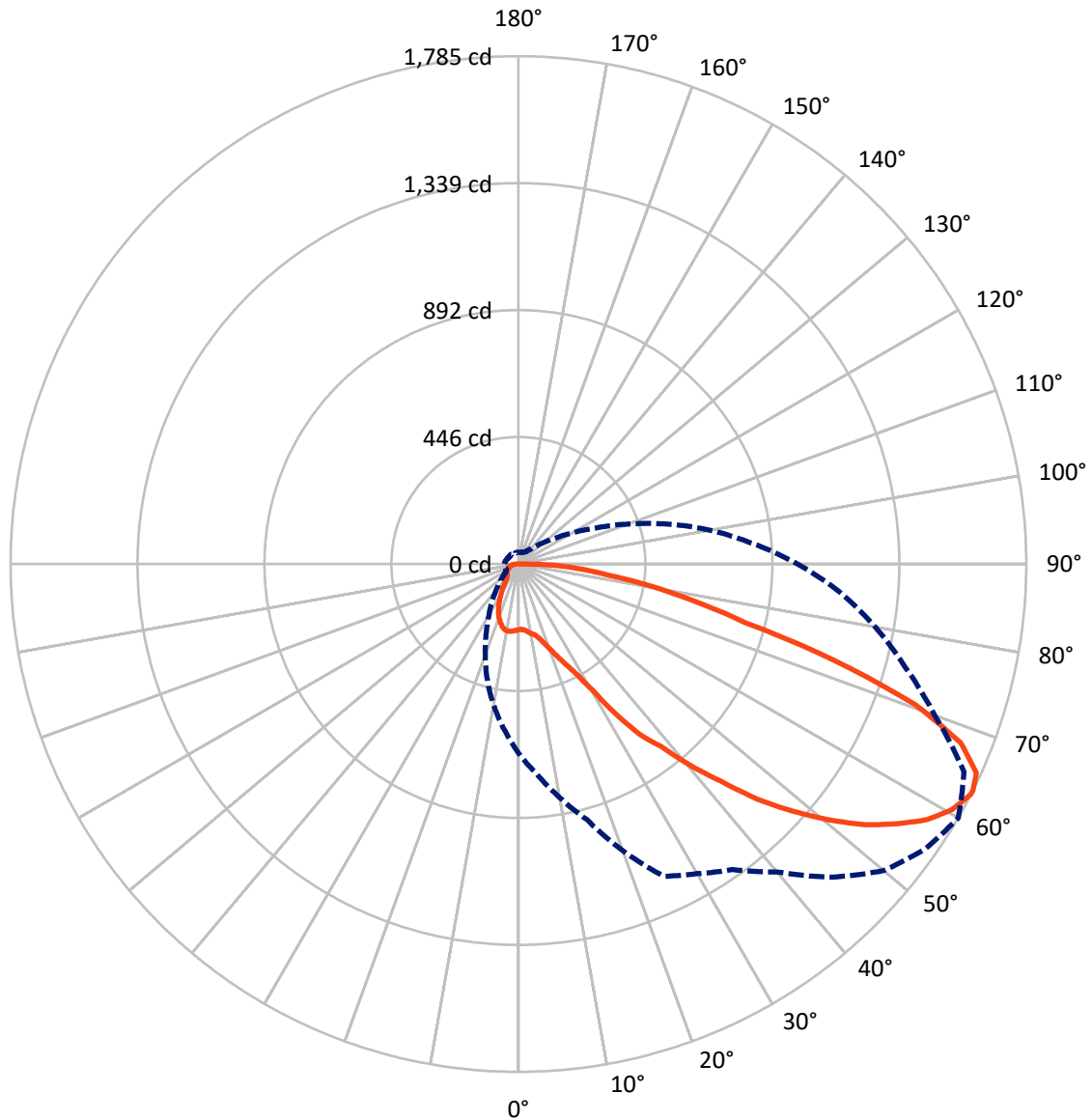
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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	392.8	0.0	392.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	1483.8	0.0	1483.8
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	1876.6	0.0	1876.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.6	1.2
10°-20°	70.6	3.8
20°-30°	124.9	6.7
30°-40°	197.2	10.5
40°-50°	290.0	15.5
50°-60°	382.1	20.4
60°-70°	425.8	22.7
70°-80°	279.8	14.9
80°-90°	83.4	4.4
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°	1876.6	100.0
0°-180°	1876.6	100.0



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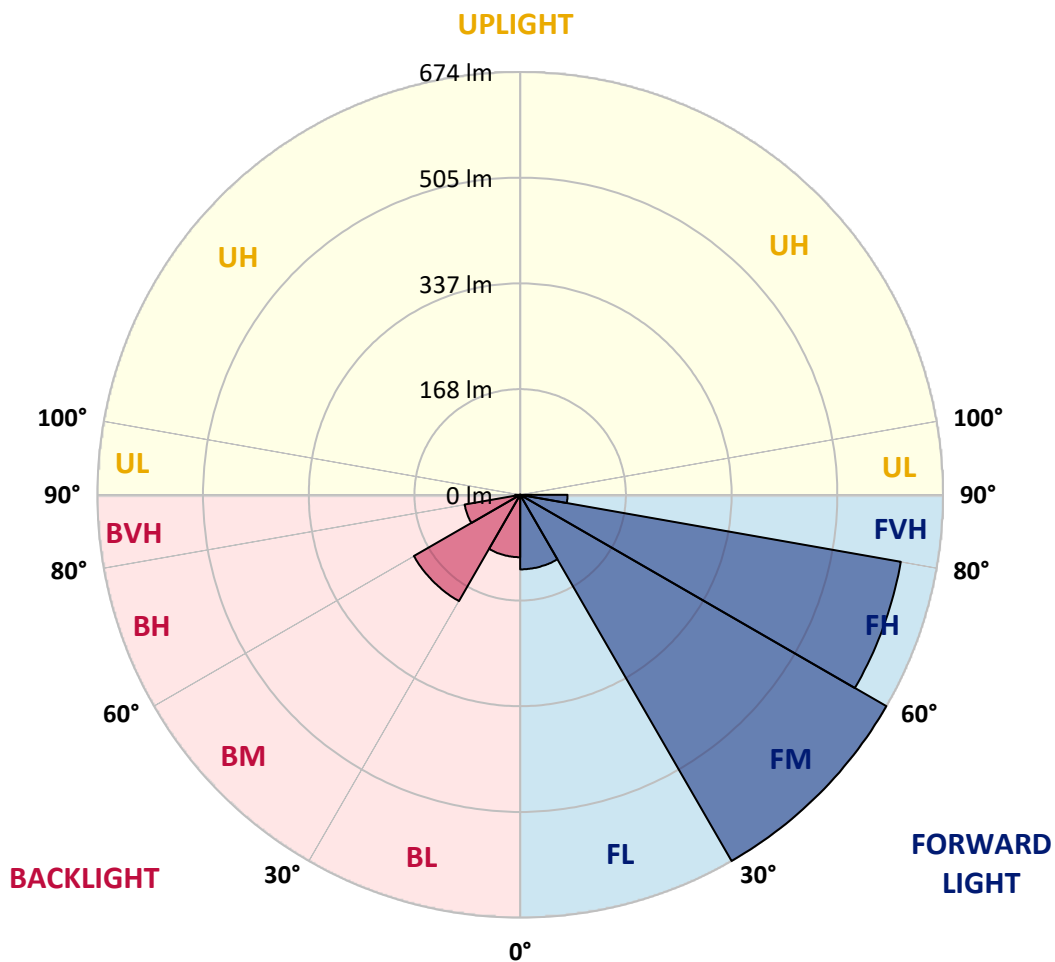
CATALOG NUMBER: VPL-F01-LED-E1-CPL-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.8	6.3			
FM (30°-60°)	673.8	35.9			
FH (60°-80°)	615.8	32.8			G0/660
FVH (80°-90°)	75.4	4.0			G1/100
BL (0°-30°)	99.4	5.3	B0/110		
BM (30°-60°)	195.6	10.4	B0/220		
BH (60°-80°)	89.8	4.8	B0/110		G0/110
BVH (80°-90°)	8.0	0.4			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	230.2	230.3	229.9	229.8	229.5	229.6	229.6	229.4	229.4	229.5	229.1
5°	229.1	229.4	229.2	229.5	229.8	230.2	230.6	231.0	231.5	232.0	232.2
7.5°	227.8	228.7	228.8	229.6	230.6	231.7	233.1	234.7	236.8	237.3	238.6
10°	228.5	230.1	230.9	232.6	234.1	236.2	238.7	240.2	242.9	243.9	245.7
12.5°	234.0	235.1	236.2	238.1	240.4	243.0	245.8	248.2	251.0	251.9	252.6
15°	244.3	245.4	246.6	248.6	251.0	254.2	258.2	261.1	264.5	267.0	268.8
17.5°	258.6	258.6	261.6	262.1	266.7	271.6	276.6	282.3	285.8	287.9	291.2
20°	279.3	279.3	283.2	285.0	288.9	295.1	302.0	308.2	313.3	317.4	320.5
22.5°	314.9	313.4	316.7	316.3	321.1	330.4	337.1	340.6	347.3	349.8	353.8
25°	356.3	361.7	365.4	365.4	367.3	376.9	382.5	385.2	391.3	389.5	393.7
27.5°	407.0	421.7	435.2	440.8	438.1	448.7	450.6	453.2	452.5	448.1	446.9
30°	456.9	482.7	503.7	516.6	531.3	551.8	551.8	555.2	547.9	535.9	528.8
32.5°	491.5	524.6	556.8	583.4	608.5	639.9	653.1	671.5	674.6	679.2	663.3
35°	519.9	566.4	601.0	641.0	671.7	703.4	738.7	770.6	791.8	788.3	782.0
37.5°	539.4	599.2	647.4	694.4	741.0	777.4	810.9	852.5	893.1	901.2	884.2
40°	553.1	622.3	688.7	746.3	805.0	859.6	900.3	945.1	1008.6	1035.5	1021.6
42.5°	559.6	640.4	714.4	787.9	862.1	931.1	982.1	1043.4	1118.8	1164.8	1149.5
45°	562.4	651.6	735.3	818.9	908.1	993.3	1059.0	1128.6	1213.4	1287.3	1290.1
47.5°	561.7	657.6	749.7	841.1	944.2	1043.3	1131.5	1210.4	1306.5	1384.1	1413.0
50°	559.8	659.7	758.3	854.5	966.9	1079.9	1179.3	1273.1	1380.5	1478.8	1522.6
52.5°	559.6	660.1	762.6	861.9	980.3	1102.4	1209.3	1320.0	1437.8	1540.5	1608.9
55°	563.0	662.6	767.4	867.0	987.6	1115.1	1226.1	1349.4	1462.7	1579.4	1667.7
57.5°	576.5	674.3	778.7	875.8	995.6	1125.1	1239.2	1357.9	1470.1	1595.5	1701.8
60°	606.2	696.2	798.3	892.0	1016.7	1151.4	1251.6	1346.0	1456.2	1590.9	1706.7
62.5°	652.4	731.3	825.8	921.8	1059.5	1201.5	1256.8	1318.5	1421.8	1564.5	1685.7
63°	664.3	740.6	833.0	930.0	1071.9	1210.9	1256.4	1311.3	1412.3	1556.6	1676.2
65°	713.7	783.8	866.7	969.3	1128.3	1241.0	1241.2	1268.6	1363.9	1513.6	1637.3
67.5°	788.1	855.0	919.1	1021.1	1190.7	1256.1	1196.2	1175.4	1259.7	1422.5	1538.7
70°	837.8	920.4	956.3	1034.8	1199.2	1237.8	1124.9	1055.7	1125.6	1261.6	1364.9
72.5°	839.0	933.2	943.7	976.5	1119.7	1150.6	1002.3	908.5	950.6	1064.8	1119.1
75°	749.4	867.9	846.4	834.3	911.7	925.0	810.7	771.7	825.6	893.1	865.9
77.5°	557.1	714.6	671.0	619.4	647.5	649.5	653.1	726.7	792.9	820.5	780.9
80°	345.7	524.9	491.5	406.5	417.3	449.4	545.5	675.6	748.0	767.8	688.7
82.5°	208.5	386.1	368.3	310.2	323.8	403.7	510.0	546.0	570.3	568.5	486.7
85°	152.7	262.3	286.5	290.8	339.3	392.0	389.8	363.1	348.2	306.4	261.6
87.5°	48.1	135.3	160.5	187.1	205.0	194.0	190.8	164.8	118.0	99.8	109.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	229.1	229.6	229.9	229.8	229.9	229.9	230.8	230.5	230.8	230.6	231.5
5°	232.6	233.4	234.1	234.1	234.2	234.5	235.6	235.6	236.2	237.3	237.9
7.5°	239.4	240.5	240.7	240.9	241.8	241.3	242.0	242.3	242.7	243.3	244.0
10°	246.5	248.0	248.0	247.9	248.0	246.9	247.3	246.5	246.6	247.5	248.3
12.5°	254.4	255.3	254.7	254.3	254.3	252.2	251.9	250.8	250.3	250.4	250.7
15°	270.3	269.6	269.5	268.8	266.3	264.8	263.6	260.2	258.3	257.4	255.7
17.5°	291.5	291.9	291.2	290.5	286.9	281.8	279.5	275.8	273.3	270.8	267.7
20°	322.4	319.7	319.4	317.2	312.1	304.9	299.5	293.3	289.8	286.2	283.0
22.5°	356.6	353.7	351.7	347.4	340.0	330.8	321.8	313.9	308.7	306.0	303.8
25°	394.5	392.8	389.6	378.6	372.8	362.2	352.3	344.6	338.6	336.4	332.5
27.5°	439.9	441.2	435.2	424.9	417.5	402.6	394.1	380.8	375.8	367.7	362.7
30°	522.7	514.6	504.4	488.7	473.8	453.7	439.6	425.8	418.5	407.6	394.2
32.5°	658.0	627.2	599.9	566.4	534.8	509.2	488.8	471.4	460.1	442.1	419.4
35°	767.1	737.4	692.3	643.6	602.1	569.2	543.6	527.2	504.6	475.9	443.0
37.5°	847.1	813.0	770.7	733.5	688.2	651.6	616.9	582.7	551.0	507.5	465.6
40°	977.0	930.7	861.2	817.3	780.2	730.6	698.1	652.1	603.8	547.8	487.0
42.5°	1105.4	1044.1	981.1	930.7	878.0	824.2	779.6	717.9	653.7	581.1	506.2
45°	1254.7	1179.6	1097.2	1026.7	972.6	909.4	852.2	776.4	694.5	608.4	523.0
47.5°	1372.3	1297.9	1204.9	1133.9	1061.0	989.6	915.5	822.0	724.9	630.7	538.6
50°	1485.0	1413.3	1314.5	1227.2	1143.5	1057.4	967.8	854.3	748.7	648.1	551.0
52.5°	1586.2	1522.4	1415.6	1311.4	1217.8	1118.5	1007.5	884.6	771.6	666.1	560.7
55°	1671.9	1612.1	1516.4	1386.6	1280.3	1170.5	1045.0	912.2	795.7	684.9	567.8
57.5°	1729.4	1694.9	1592.6	1452.8	1331.7	1214.8	1073.3	939.9	818.2	696.6	570.9
60°	1756.2	1751.6	1665.1	1512.6	1377.4	1249.4	1108.9	969.3	833.2	701.9	566.6
62.5°	1750.6	1783.5	1720.2	1553.6	1406.6	1271.0	1131.8	982.0	829.4	689.1	547.5
63°	1745.5	1784.9	1728.0	1557.6	1408.9	1273.1	1134.0	980.4	825.9	683.4	540.9
65°	1707.7	1768.5	1730.0	1550.4	1398.1	1267.1	1124.0	956.3	791.2	647.4	503.9
67.5°	1615.2	1676.1	1654.7	1470.5	1327.7	1202.7	1053.9	874.3	706.2	571.0	435.2
70°	1424.1	1478.6	1453.1	1291.1	1158.4	1069.8	928.3	727.1	575.4	459.0	331.2
72.5°	1126.5	1164.8	1170.4	1041.6	940.0	886.8	747.9	548.5	420.3	319.7	215.0
75°	834.1	825.2	827.0	755.1	713.7	691.3	559.1	376.2	283.2	195.4	127.5
77.5°	701.1	637.0	582.3	562.4	514.2	500.3	368.7	230.9	165.3	116.9	72.6
80°	570.1	472.9	393.5	358.3	339.4	342.2	204.0	123.0	86.5	63.7	45.4
82.5°	389.8	315.9	249.2	216.4	213.1	216.3	106.0	60.3	45.7	36.6	28.6
85°	230.5	217.0	193.7	172.0	164.4	155.2	78.9	43.2	23.5	19.5	16.0
87.5°	99.6	122.3	125.3	124.7	116.1	93.2	29.0	11.1	9.9	5.0	4.0
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°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	231.5	231.6	231.3	231.6	232.6	232.6	232.4	232.7	232.8	233.7	233.4
5°	238.4	238.6	238.7	239.7	240.4	241.2	240.9	241.2	241.8	241.9	242.2
7.5°	244.8	245.7	246.8	247.2	248.5	248.7	250.0	250.1	250.4	249.8	249.3
10°	249.3	250.1	251.5	252.2	254.4	254.7	255.7	256.0	256.5	256.1	255.7
12.5°	251.5	252.2	253.8	255.1	258.2	259.2	260.9	261.8	262.5	262.1	260.7
15°	256.1	256.0	256.8	257.9	260.7	262.5	264.9	266.2	267.0	266.3	264.5
17.5°	266.7	264.8	264.8	264.1	266.2	266.6	267.5	268.2	268.0	265.9	262.9
20°	281.3	278.4	276.6	274.9	274.2	270.8	268.9	266.4	264.2	260.4	257.1
22.5°	300.3	298.2	294.0	290.3	285.0	277.9	270.2	263.6	258.8	253.6	247.9
25°	329.0	324.3	318.3	309.4	302.5	290.0	277.2	264.8	254.3	246.2	236.6
27.5°	356.0	346.0	334.7	320.8	308.2	291.5	275.2	260.9	247.2	234.2	223.2
30°	378.6	361.2	342.8	323.3	305.4	285.2	266.3	250.0	234.5	219.2	208.7
32.5°	395.6	370.5	346.0	321.1	299.0	275.3	253.6	236.2	218.6	202.5	190.3
35°	410.9	377.1	345.0	315.1	289.0	262.8	239.4	219.9	200.7	183.4	169.4
37.5°	421.9	379.3	340.8	306.4	276.2	247.5	222.1	201.4	180.7	163.2	147.8
40°	430.4	378.2	332.9	293.2	258.6	228.8	204.0	182.3	161.6	144.1	128.1
42.5°	436.2	374.0	320.9	278.1	244.0	212.8	188.5	165.7	145.1	126.7	109.0
45°	443.5	372.3	313.5	266.8	230.8	199.3	173.3	151.1	129.6	110.4	93.5
47.5°	450.5	371.4	307.5	257.5	218.8	187.0	161.4	138.0	116.4	97.5	82.2
50°	454.7	369.8	301.3	246.2	205.4	174.5	149.9	126.2	104.5	86.5	72.9
52.5°	455.9	366.8	293.0	233.4	193.8	163.7	138.2	114.5	93.6	77.5	64.8
55°	455.0	360.8	281.9	223.0	182.0	151.9	126.4	103.4	84.4	69.3	59.1
57.5°	450.2	348.8	267.5	209.7	168.5	137.0	111.9	90.9	74.0	61.9	54.1
60°	439.6	331.5	250.0	191.2	149.1	119.3	95.6	77.5	63.3	54.5	49.3
62.5°	416.5	306.6	224.5	165.0	123.2	95.7	75.1	61.7	52.1	47.5	44.5
63°	409.7	297.9	217.0	158.0	118.7	90.4	70.5	58.4	49.7	46.0	43.5
65°	373.7	258.1	183.4	127.1	92.0	68.6	53.8	45.8	41.2	39.9	39.2
67.5°	306.3	200.8	129.0	85.3	61.7	47.4	39.7	36.6	35.0	34.8	35.3
70°	216.4	133.2	79.8	54.6	42.5	35.8	32.9	31.5	30.7	30.9	31.8
72.5°	140.7	78.2	50.4	40.0	34.6	31.5	29.4	29.0	28.7	28.4	28.7
75°	74.4	48.9	38.2	33.4	30.2	27.7	26.3	25.8	25.9	25.9	25.9
77.5°	46.1	37.2	32.6	29.5	27.0	24.5	23.1	22.7	22.9	23.1	23.3
80°	35.4	32.5	28.7	26.5	22.9	20.8	20.1	19.9	20.2	20.2	20.6
82.5°	25.9	25.1	23.7	20.9	18.1	16.7	16.6	17.1	16.6	16.4	16.7
85°	15.2	14.2	15.5	13.2	12.1	11.3	11.8	13.0	13.5	12.8	12.5
87.5°	4.9	3.3	4.9	5.4	4.9	4.2	5.3	6.3	6.4	6.1	7.0
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	233.3	234.2	233.3	233.7	233.5	233.3	233.7	233.1	232.8	233.7	233.5
5°	242.0	242.2	240.9	241.1	240.9	239.8	239.8	239.3	238.6	238.7	238.4
7.5°	249.2	248.9	247.9	247.5	246.2	245.4	244.8	244.0	243.4	242.9	242.6
10°	254.6	253.9	253.2	251.9	250.7	250.0	248.5	247.2	246.8	245.9	245.4
12.5°	259.3	258.1	257.0	255.4	253.9	252.8	251.0	250.0	249.3	248.2	247.3
15°	262.0	259.6	257.5	255.1	253.5	251.8	249.7	249.3	248.3	247.2	245.7
17.5°	258.8	255.4	251.5	249.0	246.5	244.0	241.9	241.9	241.5	240.2	237.6
20°	252.2	247.2	242.6	238.6	236.1	232.4	231.2	229.2	227.8	225.6	222.3
22.5°	241.5	236.2	230.2	226.2	221.8	217.8	215.3	212.2	211.1	207.5	203.0
25°	229.5	221.8	215.4	210.1	204.1	199.4	195.9	191.7	189.0	185.5	179.9
27.5°	215.3	207.3	200.1	194.2	188.0	181.4	175.0	170.1	165.1	161.1	157.9
30°	200.0	191.7	182.8	176.0	168.7	160.5	155.2	148.7	144.8	140.3	136.1
32.5°	179.9	172.7	162.2	154.3	145.3	138.9	134.6	128.3	123.7	120.0	117.6
35°	157.9	147.0	136.6	130.6	124.4	119.3	113.3	108.4	105.3	101.4	99.4
37.5°	133.9	121.2	112.3	107.0	100.7	98.2	94.5	91.6	88.8	86.1	84.4
40°	112.5	100.7	92.7	88.2	84.0	81.2	78.9	77.6	75.8	73.7	72.5
42.5°	94.6	85.3	77.3	73.2	70.0	69.7	68.1	67.2	66.5	65.2	63.3
45°	80.7	72.2	65.4	62.0	60.6	60.8	60.8	59.9	59.9	59.5	58.2
47.5°	71.3	63.7	58.7	56.4	55.9	56.0	55.6	55.3	55.5	55.3	54.6
50°	64.1	57.6	53.4	52.5	52.4	52.3	51.7	51.3	51.1	51.4	51.3
52.5°	56.7	51.3	48.9	48.6	48.8	48.8	48.6	48.5	48.8	49.1	48.6
55°	52.5	48.6	47.1	47.1	47.1	47.1	47.0	46.8	47.2	47.7	47.0
57.5°	48.6	45.8	45.3	45.3	45.3	45.0	45.0	45.1	45.7	46.5	45.7
60°	45.7	44.3	44.3	44.5	44.3	43.8	43.3	43.3	44.0	45.1	44.5
62.5°	42.9	42.2	42.5	42.4	42.1	41.4	40.8	40.8	41.7	42.8	43.1
63°	42.2	41.7	41.9	41.8	41.5	41.0	40.4	40.4	41.1	42.2	42.6
65°	39.2	39.3	39.4	39.6	39.4	39.3	38.6	38.3	38.9	39.7	40.3
67.5°	35.5	35.8	36.1	36.8	36.5	36.5	36.1	35.8	36.0	36.4	36.8
70°	32.2	32.5	32.9	33.2	33.3	33.4	33.2	32.7	32.9	33.0	33.3
72.5°	29.0	29.3	29.5	30.1	30.1	30.1	29.8	29.5	29.7	30.0	30.2
75°	26.1	26.2	26.5	26.9	27.0	26.8	26.8	26.5	26.6	27.0	27.3
77.5°	23.1	22.9	23.0	23.3	23.7	23.7	23.8	23.7	24.0	24.2	24.5
80°	19.8	19.5	19.2	19.4	19.9	20.6	21.3	21.3	21.7	21.9	22.3
82.5°	15.7	15.5	15.3	15.7	15.6	16.6	18.1	19.0	19.5	20.1	20.3
85°	12.3	11.6	11.8	11.8	11.6	13.1	14.5	15.6	15.7	16.6	16.7
87.5°	7.2	7.0	6.7	6.4	7.4	8.9	10.2	10.6	10.9	11.3	11.7
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	232.4	233.5	233.3	233.1	233.3	233.1	232.7	232.8	232.6	232.7	232.4
5°	236.9	237.4	237.0	236.3	236.3	235.4	234.7	234.1	233.4	233.1	232.6
7.5°	241.2	240.8	240.2	239.0	238.3	237.0	236.1	234.9	234.2	233.4	232.4
10°	243.9	243.0	241.9	240.4	238.4	237.3	235.9	234.2	233.4	233.0	232.0
12.5°	245.1	242.9	241.1	238.3	235.5	233.4	231.9	230.2	229.8	229.2	228.5
15°	242.2	239.0	234.4	230.6	227.0	224.1	222.8	221.0	220.6	220.4	220.3
17.5°	232.3	227.4	223.0	217.9	214.7	212.1	211.0	210.6	209.9	209.6	209.7
20°	216.4	212.2	207.8	206.1	202.3	201.6	200.0	198.8	197.6	197.2	196.5
22.5°	197.9	192.7	189.9	188.7	187.1	183.5	182.7	181.6	179.9	178.6	178.4
25°	176.3	172.1	172.0	169.0	167.8	165.8	163.6	162.2	161.2	159.7	158.6
27.5°	154.3	152.7	150.1	147.8	147.0	145.9	142.6	141.9	140.7	139.5	138.2
30°	133.8	132.7	130.2	128.1	126.8	124.6	121.4	121.7	119.4	117.7	116.6
32.5°	113.8	113.0	110.6	110.1	106.0	104.9	101.6	99.1	96.8	95.2	93.8
35°	95.9	93.6	93.8	91.3	89.0	85.7	82.2	79.0	77.2	76.4	75.1
37.5°	82.9	80.8	78.7	75.9	73.4	71.1	69.0	68.0	66.9	67.2	67.3
40°	71.2	69.7	68.1	66.2	64.7	63.7	63.1	63.1	63.3	64.0	64.5
42.5°	62.8	61.6	60.8	60.1	60.3	60.3	60.8	61.5	62.1	63.1	63.7
45°	57.3	56.6	56.3	56.6	57.4	58.1	59.1	60.2	61.3	62.3	62.7
47.5°	53.9	53.5	53.5	54.2	55.5	56.6	58.1	59.2	60.5	61.3	61.6
50°	50.3	50.2	50.2	50.7	51.8	53.2	54.8	55.9	57.0	57.7	58.0
52.5°	48.2	47.8	47.7	48.4	49.3	50.7	52.3	53.4	54.2	54.8	54.9
55°	46.4	46.0	45.7	46.5	47.7	48.9	50.7	52.0	52.8	53.5	54.1
57.5°	44.9	44.5	44.2	45.1	46.3	47.8	49.3	50.7	51.8	52.7	53.2
60°	43.6	43.1	42.8	43.9	45.0	46.5	48.1	49.6	51.1	52.1	52.4
62.5°	42.1	41.7	41.2	41.9	42.5	43.6	45.0	46.5	47.9	48.9	48.9
63°	41.7	41.5	41.0	41.5	42.1	43.1	44.5	45.8	47.2	48.4	48.2
65°	39.9	39.9	39.6	40.1	40.7	41.7	42.8	44.3	45.6	46.4	46.5
67.5°	36.9	37.1	37.3	37.9	39.0	40.0	41.2	42.6	43.8	44.3	44.6
70°	33.6	33.9	34.4	35.3	36.2	37.1	37.9	39.3	40.3	40.8	41.1
72.5°	30.4	31.1	31.5	32.2	32.7	33.6	34.3	35.7	36.5	36.9	37.6
75°	27.5	28.0	28.3	28.7	29.3	29.5	30.4	30.9	32.0	32.6	33.4
77.5°	24.7	24.9	25.4	26.1	26.2	26.6	26.9	27.7	28.3	28.8	29.5
80°	22.2	22.4	23.0	23.4	23.5	23.8	24.0	23.8	23.7	23.3	23.8
82.5°	19.9	20.2	20.9	21.3	21.7	21.7	21.6	20.1	19.4	19.6	20.1
85°	16.4	16.7	17.4	18.3	18.4	18.3	18.4	16.9	15.9	15.5	15.9
87.5°	10.3	10.0	12.4	13.5	12.7	13.0	13.1	12.3	11.4	9.8	10.2
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°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	0°
2.5°	232.7	231.7	231.9	232.2	232.2	232.6	232.0	231.3	231.7	231.0	230.9	2.5°
5°	232.6	231.3	231.3	231.6	231.3	231.6	231.2	230.5	230.9	230.1	229.9	5°
7.5°	232.0	231.3	231.6	231.9	231.5	231.6	231.5	230.5	230.6	230.2	229.2	7.5°
10°	231.7	231.3	231.9	232.7	232.7	232.8	232.4	231.3	230.6	230.2	229.4	10°
12.5°	228.8	229.4	230.5	232.4	233.1	234.2	234.8	234.2	234.5	234.0	233.7	12.5°
15°	220.4	221.8	223.7	226.6	228.7	231.2	234.2	235.6	238.3	240.4	241.8	15°
17.5°	210.4	211.4	213.3	216.7	219.3	224.3	228.5	233.3	238.4	244.0	248.9	17.5°
20°	198.0	197.3	200.4	204.0	208.6	214.2	220.3	227.4	235.9	244.8	253.3	20°
22.5°	179.8	179.8	183.0	187.3	192.9	199.3	207.8	215.4	226.6	239.5	252.1	22.5°
25°	158.9	159.3	161.5	166.4	170.3	179.5	187.4	197.3	210.7	224.9	241.6	25°
27.5°	136.6	139.3	138.8	143.9	149.1	158.2	169.0	179.1	194.0	209.2	228.3	27.5°
30°	116.4	115.9	115.8	121.9	127.1	135.3	144.2	156.9	172.0	191.5	213.5	30°
32.5°	91.3	92.8	93.9	97.5	103.1	110.8	120.4	133.6	151.7	171.4	196.2	32.5°
35°	75.4	75.8	77.3	79.4	84.3	90.7	100.7	112.5	128.3	148.7	175.0	35°
37.5°	67.6	68.0	69.7	71.6	75.1	79.8	86.7	95.7	110.4	129.3	153.8	37.5°
40°	65.1	65.5	66.5	68.3	71.5	75.5	81.0	87.9	98.5	113.3	134.7	40°
42.5°	64.0	64.0	64.1	65.5	68.7	73.4	79.3	85.6	93.4	104.5	121.9	42.5°
45°	62.7	62.7	62.6	63.5	66.1	71.5	78.6	86.3	94.8	104.4	118.0	45°
47.5°	61.6	61.3	61.0	61.5	63.5	69.1	77.3	86.7	97.5	109.5	123.3	47.5°
50°	57.7	57.7	57.6	57.7	59.6	65.5	75.0	86.3	100.1	115.5	132.2	50°
52.5°	54.9	55.0	55.2	55.2	56.7	62.7	73.2	86.4	102.8	121.4	142.6	52.5°
55°	54.2	54.5	54.5	54.2	55.5	60.9	71.5	86.0	104.8	127.9	153.6	55°
57.5°	53.4	53.5	53.6	53.4	54.2	58.9	69.1	84.0	104.2	130.4	161.8	57.5°
60°	52.3	51.7	51.6	51.1	51.7	55.5	64.9	79.8	100.9	129.3	164.6	60°
62.5°	49.2	48.8	48.4	47.9	48.4	51.1	60.3	74.7	95.3	124.9	162.3	62.5°
63°	48.5	48.2	47.8	47.4	47.4	50.4	58.8	73.4	93.9	123.6	161.5	63°
65°	46.5	46.4	46.1	45.7	45.6	47.9	55.3	67.7	87.4	118.0	156.2	65°
67.5°	44.3	44.3	44.2	43.6	42.9	44.3	49.5	59.2	75.9	103.7	143.1	67.5°
70°	41.1	41.1	41.0	40.7	39.9	40.8	44.2	50.6	62.6	84.7	120.0	70°
72.5°	37.9	37.9	38.3	38.2	38.3	38.5	40.1	43.6	50.9	65.9	90.7	72.5°
75°	33.7	34.4	34.6	34.8	35.0	34.8	35.7	37.8	41.9	50.6	66.2	75°
77.5°	30.2	31.2	31.1	30.8	30.7	30.8	30.7	31.6	34.7	40.1	49.1	77.5°
80°	24.9	25.9	25.9	25.8	25.5	25.8	25.5	26.5	29.0	33.7	39.0	80°
82.5°	20.5	21.2	21.6	21.9	21.6	22.7	22.7	22.4	24.4	28.6	32.9	82.5°
85°	16.4	17.1	17.6	18.1	18.4	18.1	18.0	17.7	18.8	22.2	25.1	85°
87.5°	10.5	11.0	11.0	11.1	11.1	11.6	10.7	9.8	8.9	12.7	13.2	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°
230.5	230.5	230.5	230.5	230.5	230.5	230.5
230.5	230.5	230.6	230.2	230.6	230.6	230.2
229.5	229.2	229.2	229.1	229.4	229.2	229.1
228.7	228.7	228.1	227.7	227.6	228.1	227.8
228.4	228.1	228.0	227.7	227.8	228.3	228.5
233.4	232.4	232.7	232.6	232.7	233.1	234.0
242.6	242.6	243.3	241.8	242.5	243.2	244.3
252.9	255.4	256.7	256.5	256.8	257.4	258.6
261.7	269.6	275.2	276.6	280.4	281.2	279.3
265.6	279.8	292.4	300.7	310.0	313.8	314.9
257.7	278.1	298.8	318.0	336.4	347.0	356.3
249.4	273.7	301.1	329.8	359.8	386.8	407.0
238.0	270.1	307.1	345.9	385.6	423.2	456.9
225.5	264.2	307.7	354.8	403.8	450.6	491.5
207.5	250.5	298.8	353.4	410.2	468.9	519.9
186.9	228.8	282.9	345.3	409.8	478.2	539.4
164.8	207.8	264.6	331.5	404.4	481.2	553.1
148.3	190.8	246.5	318.4	396.3	479.2	559.6
139.8	176.1	231.7	305.6	387.2	474.5	562.4
141.4	172.2	223.0	295.0	379.2	469.3	561.7
150.8	178.1	222.8	291.1	374.0	464.6	559.8
164.8	191.3	230.9	295.7	376.8	464.2	559.6
180.7	209.9	250.4	308.1	388.6	471.7	563.0
196.1	232.4	275.5	335.8	411.1	490.5	576.5
205.1	253.1	307.7	375.0	445.6	523.5	606.2
207.2	265.5	336.2	413.4	493.0	571.3	652.4
207.1	266.7	341.1	421.4	502.6	582.3	664.3
203.9	269.2	354.2	447.6	541.2	629.6	713.7
193.8	264.8	361.5	472.0	579.5	681.7	788.1
170.8	244.4	353.0	479.9	602.4	716.2	837.8
133.8	201.6	304.8	438.7	571.5	685.3	839.0
94.1	142.6	234.5	360.2	467.1	579.1	749.4
65.5	92.4	152.3	242.3	337.1	422.5	557.1
47.9	61.5	91.3	144.9	204.6	264.1	345.7
36.9	44.3	58.4	87.5	115.5	147.8	208.5
25.9	29.3	36.1	54.1	77.5	105.8	152.7
11.3	13.2	17.4	31.9	52.4	50.4	48.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)