

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: LUMARK

Report Number: P145726

Luminaire Tested: **LDRL-SLL-F01-E-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145726  
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: LUMARK  
Catalog Number: LDRL-SLL-F01-E-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (7) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2281.6 lumens  
Efficiency: N/A  
Efficacy: 88.1 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

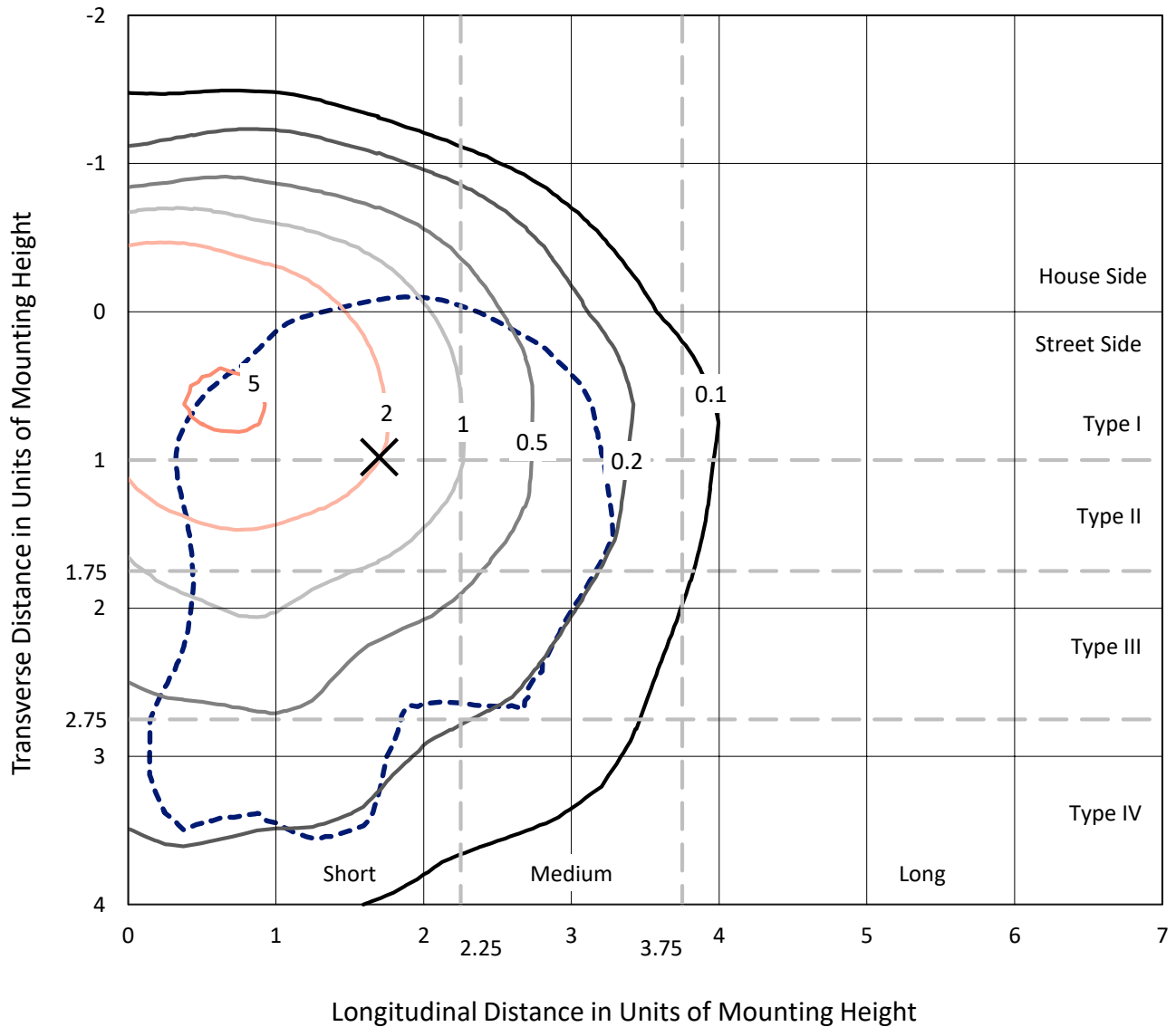
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

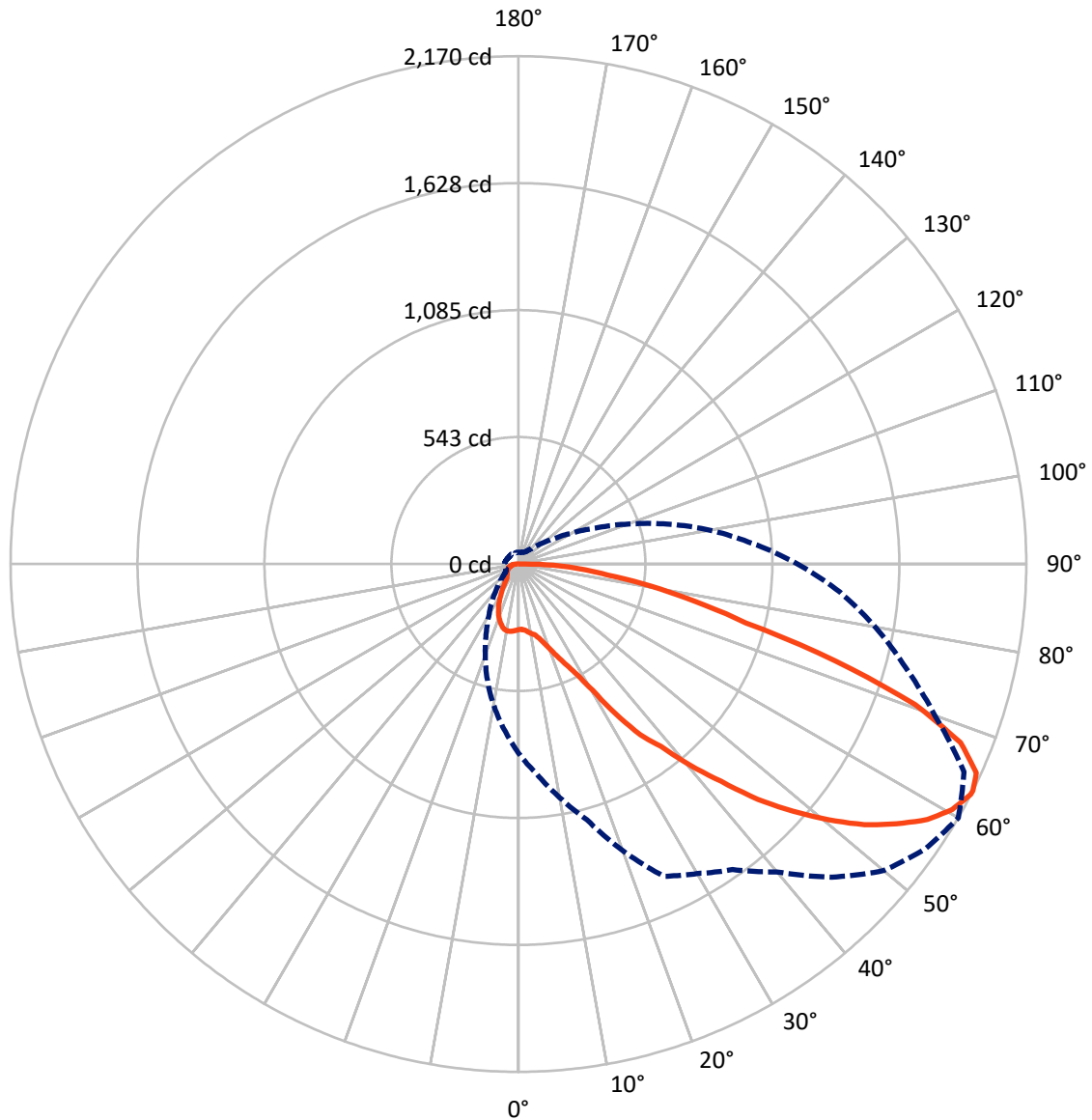
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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	477.6	0.0	477.6
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	1804.0	0.0	1804.0
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	2281.6	0.0	2281.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	1.2
10°-20°	85.9	3.8
20°-30°	151.9	6.7
30°-40°	239.8	10.5
40°-50°	352.6	15.5
50°-60°	464.5	20.4
60°-70°	517.7	22.7
70°-80°	340.2	14.9
80°-90°	101.4	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°	2281.6	100.0
0°-180°	2281.6	100.0

**Coefficient of Utilization**



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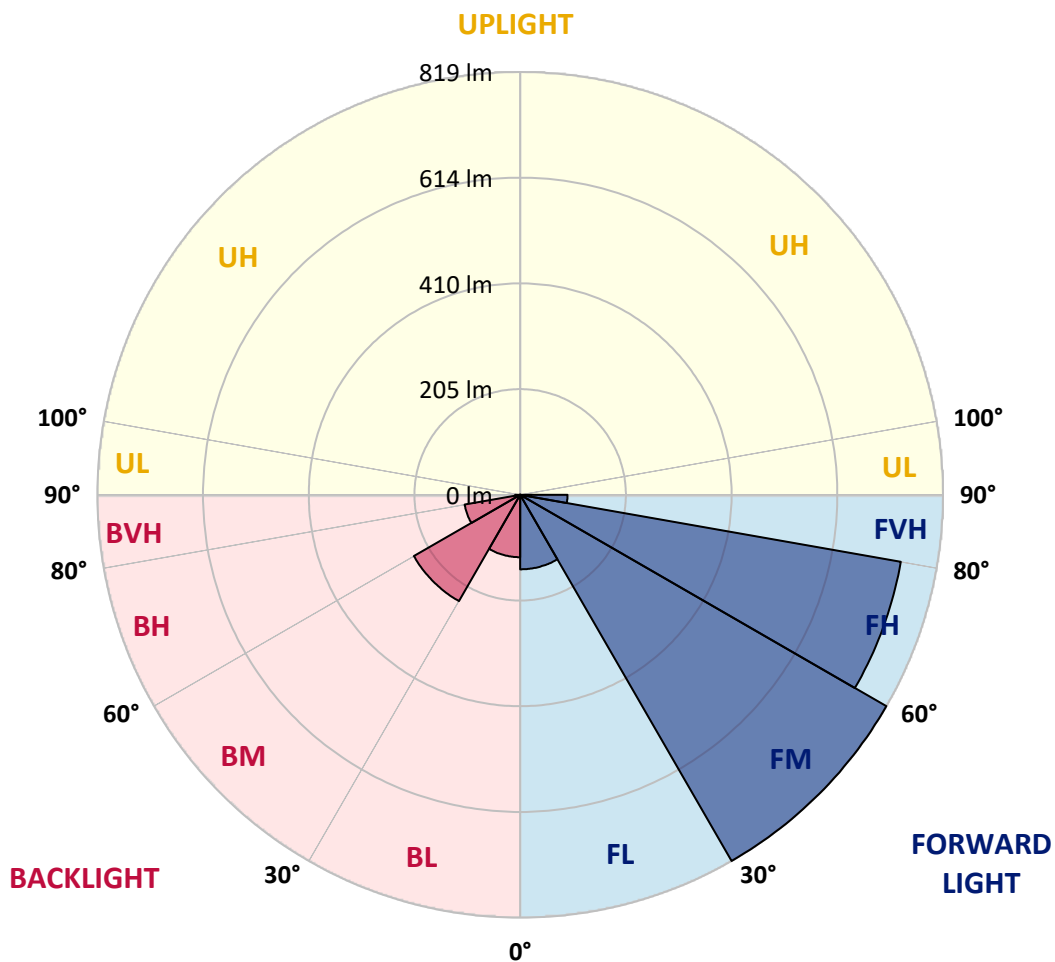
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.4	6.3			
FM	(30°-60°)	819.1	35.9			
FH	(60°-80°)	748.7	32.8			G1/1800
FVH	(80°-90°)	91.7	4.0			G1/100
BL	(0°-30°)	120.9	5.3	B1/500		
BM	(30°-60°)	237.8	10.4	B1/1000		
BH	(60°-80°)	109.2	4.8	B0/110		G0/110
BVH	(80°-90°)	9.8	0.4			G0/10
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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	279.9	280.0	279.5	279.4	279.0	279.2	279.2	278.9	278.9	279.0	278.5
5°	278.5	278.9	278.7	279.0	279.4	279.9	280.4	280.9	281.4	282.1	282.2
7.5°	277.0	278.0	278.2	279.2	280.4	281.7	283.4	285.3	287.8	288.5	290.0
10°	277.8	279.7	280.7	282.8	284.6	287.2	290.2	292.1	295.3	296.5	298.7
12.5°	284.4	285.8	287.2	289.5	292.2	295.5	298.8	301.7	305.1	306.3	307.1
15°	297.0	298.3	299.9	302.2	305.1	309.0	313.9	317.5	321.5	324.6	326.8
17.5°	314.4	314.4	318.0	318.7	324.3	330.2	336.3	343.2	347.5	350.0	354.1
20°	339.5	339.5	344.3	346.5	351.2	358.8	367.1	374.7	380.8	385.9	389.7
22.5°	382.9	381.0	385.1	384.6	390.3	401.7	409.8	414.1	422.2	425.2	430.1
25°	433.2	439.8	444.2	444.2	446.6	458.3	465.0	468.3	475.7	473.5	478.6
27.5°	494.9	512.7	529.1	535.9	532.6	545.5	547.9	550.9	550.1	544.8	543.3
30°	555.5	586.9	612.4	628.0	646.0	670.9	670.9	674.9	666.1	651.6	642.9
32.5°	597.5	637.8	677.0	709.3	739.8	778.0	794.0	816.4	820.1	825.7	806.4
35°	632.1	688.7	730.7	779.3	816.6	855.2	898.1	936.9	962.6	958.4	950.8
37.5°	655.8	728.5	787.1	844.2	900.9	945.2	985.8	1036.5	1085.8	1095.6	1074.9
40°	672.4	756.6	837.2	907.4	978.7	1045.1	1094.6	1149.0	1226.2	1258.9	1242.0
42.5°	680.4	778.6	868.6	957.9	1048.2	1132.0	1194.0	1268.6	1360.2	1416.1	1397.5
45°	683.8	792.2	894.0	995.7	1104.1	1207.6	1287.6	1372.1	1475.3	1565.1	1568.4
47.5°	682.9	799.5	911.5	1022.6	1148.0	1268.4	1375.7	1471.5	1588.4	1682.8	1717.9
50°	680.5	802.0	922.0	1038.9	1175.6	1313.0	1433.8	1547.8	1678.4	1797.8	1851.2
52.5°	680.4	802.5	927.2	1047.8	1191.8	1340.2	1470.2	1604.9	1748.0	1872.9	1956.1
55°	684.4	805.6	933.0	1054.1	1200.6	1355.7	1490.7	1640.6	1778.4	1920.2	2027.6
57.5°	700.9	819.8	946.7	1064.8	1210.5	1367.9	1506.6	1651.0	1787.3	1939.8	2069.1
60°	737.0	846.4	970.6	1084.4	1236.1	1399.9	1521.7	1636.4	1770.4	1934.2	2075.0
62.5°	793.2	889.1	1004.0	1120.7	1288.1	1460.7	1528.0	1603.0	1728.5	1902.0	2049.4
63°	807.6	900.4	1012.8	1130.7	1303.1	1472.2	1527.4	1594.2	1717.0	1892.5	2037.9
65°	867.7	953.0	1053.8	1178.5	1371.8	1508.8	1509.0	1542.4	1658.2	1840.2	1990.6
67.5°	958.2	1039.5	1117.5	1241.5	1447.7	1527.1	1454.3	1429.0	1531.5	1729.4	1870.7
70°	1018.5	1119.0	1162.7	1258.1	1458.0	1504.9	1367.7	1283.5	1368.5	1533.9	1659.4
72.5°	1020.0	1134.6	1147.3	1187.3	1361.3	1398.9	1218.6	1104.6	1155.7	1294.5	1360.6
75°	911.1	1055.1	1029.0	1014.3	1108.5	1124.6	985.7	938.2	1003.8	1085.8	1052.7
77.5°	677.3	868.8	815.7	753.1	787.3	789.6	794.0	883.5	964.0	997.5	949.4
80°	420.3	638.2	597.5	494.2	507.4	546.4	663.3	821.3	909.4	933.5	837.2
82.5°	253.4	469.4	447.8	377.1	393.7	490.8	620.1	663.8	693.4	691.2	591.8
85°	185.7	318.8	348.3	353.6	412.5	476.6	473.9	441.5	423.4	372.5	318.0
87.5°	58.4	164.5	195.2	227.5	249.2	235.8	231.9	200.4	143.5	121.3	133.3
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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	278.5	279.2	279.5	279.4	279.5	279.5	280.6	280.2	280.6	280.4	281.4
5°	282.8	283.8	284.6	284.6	284.8	285.1	286.5	286.5	287.2	288.5	289.2
7.5°	291.1	292.4	292.6	292.9	293.9	293.4	294.3	294.6	295.1	295.8	296.6
10°	299.7	301.6	301.6	301.4	301.6	300.2	300.7	299.7	299.9	300.9	301.9
12.5°	309.4	310.4	309.7	309.2	309.2	306.6	306.3	304.9	304.3	304.4	304.8
15°	328.7	327.8	327.6	326.8	323.8	321.9	320.5	316.3	314.1	312.9	310.9
17.5°	354.4	354.9	354.1	353.2	348.8	342.6	339.8	335.3	332.2	329.2	325.4
20°	392.0	388.6	388.3	385.6	379.5	370.7	364.1	356.6	352.4	348.0	344.1
22.5°	433.5	430.0	427.6	422.4	413.4	402.2	391.2	381.7	375.3	372.0	369.3
25°	479.6	477.6	473.7	460.3	453.2	440.3	428.3	419.0	411.7	409.0	404.2
27.5°	534.8	536.4	529.1	516.5	507.6	489.4	479.1	463.0	456.9	447.1	441.0
30°	635.5	625.7	613.3	594.1	576.0	551.6	534.5	517.7	508.8	495.5	479.3
32.5°	800.0	762.5	729.3	688.7	650.2	619.0	594.3	573.1	559.4	537.6	509.9
35°	932.6	896.5	841.7	782.5	732.0	692.1	660.9	640.9	613.5	578.6	538.6
37.5°	1029.9	988.4	937.0	891.8	836.7	792.2	750.0	708.5	669.9	617.0	566.0
40°	1187.8	1131.5	1047.0	993.6	948.6	888.2	848.8	792.9	734.1	666.0	592.1
42.5°	1344.0	1269.4	1192.9	1131.5	1067.5	1002.1	947.9	872.8	794.7	706.5	615.5
45°	1525.4	1434.1	1334.0	1248.3	1182.5	1105.6	1036.1	944.0	844.4	739.7	635.8
47.5°	1668.4	1577.9	1464.9	1378.5	1289.9	1203.2	1113.1	999.4	881.3	766.8	654.8
50°	1805.5	1718.2	1598.1	1492.0	1390.2	1285.5	1176.6	1038.7	910.3	787.9	669.9
52.5°	1928.5	1850.9	1721.1	1594.4	1480.5	1359.9	1224.9	1075.4	938.1	809.8	681.7
55°	2032.6	1960.0	1843.6	1685.8	1556.6	1423.1	1270.4	1109.0	967.4	832.7	690.4
57.5°	2102.6	2060.6	1936.2	1766.3	1619.1	1477.0	1304.8	1142.7	994.8	846.9	694.1
60°	2135.1	2129.5	2024.3	1839.0	1674.7	1519.0	1348.2	1178.5	1012.9	853.3	688.8
62.5°	2128.4	2168.3	2091.4	1888.8	1710.1	1545.2	1376.0	1193.9	1008.4	837.8	665.6
63°	2122.1	2170.0	2100.9	1893.7	1713.0	1547.8	1378.7	1192.0	1004.1	830.8	657.7
65°	2076.2	2150.0	2103.3	1884.9	1699.7	1540.5	1366.5	1162.7	961.9	787.1	612.6
67.5°	1963.7	2037.7	2011.8	1787.8	1614.2	1462.2	1281.3	1062.9	858.6	694.3	529.1
70°	1731.4	1797.7	1766.7	1569.6	1408.3	1300.6	1128.6	884.0	699.5	558.1	402.7
72.5°	1369.6	1416.1	1422.9	1266.4	1142.9	1078.2	909.3	666.8	511.0	388.6	261.4
75°	1014.1	1003.3	1005.5	918.1	867.7	840.5	679.7	457.4	344.3	237.5	155.0
77.5°	852.3	774.4	708.0	683.8	625.1	608.2	448.3	280.7	200.9	142.1	88.3
80°	693.1	575.0	478.4	435.6	412.7	416.1	248.0	149.6	105.2	77.4	55.2
82.5°	473.9	384.1	302.9	263.1	259.0	262.9	128.9	73.4	55.6	44.6	34.7
85°	280.2	263.8	235.5	209.1	199.9	188.7	95.9	52.5	28.6	23.7	19.5
87.5°	121.1	148.7	152.3	151.6	141.1	113.3	35.2	13.6	12.0	6.1	4.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	281.4	281.6	281.2	281.6	282.8	282.8	282.6	282.9	283.1	284.1	283.8
5°	289.9	290.0	290.2	291.4	292.2	293.3	292.9	293.3	293.9	294.1	294.4
7.5°	297.7	298.7	300.0	300.5	302.1	302.4	303.9	304.1	304.4	303.8	303.1
10°	303.1	304.1	305.8	306.6	309.4	309.7	310.9	311.2	311.9	311.4	310.9
12.5°	305.8	306.6	308.5	310.2	313.9	315.1	317.1	318.3	319.2	318.7	317.0
15°	311.4	311.2	312.2	313.6	317.0	319.2	322.1	323.6	324.6	323.8	321.5
17.5°	324.3	321.9	321.9	321.0	323.6	324.1	325.3	326.1	325.8	323.2	319.7
20°	342.0	338.5	336.3	334.3	333.4	329.2	327.0	323.9	321.2	316.6	312.6
22.5°	365.1	362.5	357.5	352.9	346.5	337.8	328.5	320.5	314.6	308.3	301.4
25°	400.0	394.2	386.9	376.1	367.8	352.6	337.0	321.9	309.2	299.4	287.7
27.5°	432.9	420.7	406.9	390.0	374.7	354.4	334.6	317.1	300.5	284.8	271.4
30°	460.3	439.1	416.8	393.0	371.4	346.8	323.8	303.9	285.1	266.5	253.8
32.5°	481.0	450.5	420.7	390.3	363.6	334.8	308.3	287.2	265.8	246.2	231.4
35°	499.6	458.4	419.5	383.0	351.4	319.5	291.1	267.3	244.0	223.0	206.0
37.5°	513.0	461.1	414.4	372.5	335.8	300.9	270.0	244.8	219.7	198.4	179.7
40°	523.3	459.8	404.7	356.4	314.4	278.2	248.0	221.6	196.5	175.2	155.7
42.5°	530.3	454.7	390.2	338.2	296.6	258.7	229.2	201.4	176.4	154.0	132.5
45°	539.2	452.7	381.2	324.4	280.6	242.3	210.8	183.6	157.6	134.2	113.7
47.5°	547.7	451.5	373.9	313.1	266.0	227.4	196.2	167.7	141.5	118.6	100.0
50°	552.8	449.6	366.3	299.4	249.7	212.1	182.3	153.5	127.1	105.2	88.6
52.5°	554.3	445.9	356.3	283.8	235.7	199.1	168.1	139.3	113.8	94.2	78.8
55°	553.1	438.6	342.7	271.1	221.3	184.7	153.7	125.7	102.7	84.2	71.8
57.5°	547.4	424.0	325.3	255.0	204.8	166.5	136.0	110.5	90.0	75.2	65.7
60°	534.5	403.0	303.9	232.4	181.3	145.0	116.2	94.2	76.9	66.2	60.0
62.5°	506.4	372.7	272.9	200.6	149.8	116.4	91.3	75.1	63.4	57.8	54.0
63°	498.1	362.2	263.8	192.1	144.3	110.0	85.7	71.0	60.5	55.9	52.9
65°	454.4	313.8	223.0	154.5	111.8	83.4	65.4	55.7	50.1	48.5	47.6
67.5°	372.4	244.1	156.9	103.7	75.1	57.6	48.3	44.6	42.5	42.4	42.9
70°	263.1	162.0	97.1	66.4	51.7	43.5	40.0	38.3	37.3	37.6	38.6
72.5°	171.1	95.0	61.3	48.6	42.0	38.3	35.7	35.2	34.9	34.6	34.9
75°	90.5	59.5	46.4	40.7	36.8	33.7	32.0	31.3	31.5	31.5	31.5
77.5°	56.1	45.2	39.6	35.9	32.9	29.8	28.1	27.6	27.8	28.1	28.3
80°	43.0	39.5	34.9	32.2	27.8	25.2	24.4	24.2	24.6	24.6	25.1
82.5°	31.5	30.5	28.8	25.4	22.0	20.3	20.2	20.8	20.2	20.0	20.3
85°	18.5	17.3	18.8	16.1	14.7	13.7	14.4	15.8	16.4	15.6	15.2
87.5°	5.9	4.1	5.9	6.6	5.9	5.1	6.4	7.6	7.8	7.5	8.5
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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	283.6	284.8	283.6	284.1	283.9	283.6	284.1	283.4	283.1	284.1	283.9
5°	294.3	294.4	292.9	293.1	292.9	291.6	291.6	290.9	290.0	290.2	289.9
7.5°	302.9	302.6	301.4	300.9	299.4	298.3	297.7	296.6	296.0	295.3	295.0
10°	309.5	308.7	307.8	306.3	304.8	303.9	302.1	300.5	300.0	299.0	298.3
12.5°	315.3	313.8	312.4	310.5	308.7	307.3	305.1	303.9	303.1	301.7	300.7
15°	318.5	315.6	313.1	310.2	308.2	306.1	303.6	303.1	301.9	300.5	298.7
17.5°	314.6	310.5	305.8	302.7	299.7	296.6	294.1	294.1	293.6	292.1	288.9
20°	306.6	300.5	295.0	290.0	287.0	282.6	281.1	278.7	277.0	274.3	270.2
22.5°	293.6	287.2	279.9	275.0	269.7	264.8	261.7	258.0	256.7	252.3	246.8
25°	279.0	269.7	261.9	255.5	248.2	242.4	238.2	233.1	229.7	225.5	218.7
27.5°	261.7	252.1	243.3	236.2	228.5	220.6	212.8	206.9	200.8	195.8	191.9
30°	243.1	233.1	222.3	214.0	205.2	195.2	188.7	180.8	176.0	170.6	165.5
32.5°	218.7	209.9	197.2	187.5	176.7	168.9	163.7	156.0	150.4	145.9	143.0
35°	191.9	178.7	166.0	158.7	151.3	145.0	137.7	131.8	128.1	123.3	120.8
37.5°	162.8	147.4	136.5	130.1	122.5	119.4	114.9	111.3	107.9	104.7	102.7
40°	136.7	122.5	112.7	107.2	102.2	98.8	95.9	94.4	92.2	89.6	88.1
42.5°	115.0	103.7	94.0	88.9	85.0	84.7	82.8	81.7	80.8	79.3	76.9
45°	98.1	87.8	79.5	75.4	73.7	73.9	73.9	72.8	72.8	72.3	70.8
47.5°	86.7	77.4	71.3	68.6	67.9	68.1	67.6	67.3	67.4	67.3	66.4
50°	77.9	70.0	64.9	63.9	63.7	63.5	62.9	62.3	62.2	62.5	62.3
52.5°	69.0	62.3	59.5	59.1	59.3	59.3	59.1	59.0	59.3	59.6	59.1
55°	63.9	59.1	57.3	57.3	57.3	57.3	57.1	56.9	57.4	57.9	57.1
57.5°	59.1	55.7	55.1	55.1	55.1	54.7	54.7	54.9	55.6	56.6	55.6
60°	55.6	53.9	53.9	54.0	53.9	53.2	52.7	52.7	53.5	54.9	54.0
62.5°	52.2	51.3	51.7	51.5	51.2	50.3	49.6	49.6	50.7	52.0	52.3
63°	51.3	50.7	51.0	50.8	50.5	49.8	49.1	49.1	50.0	51.3	51.8
65°	47.6	47.8	47.9	48.1	47.9	47.8	46.9	46.6	47.3	48.3	49.0
67.5°	43.2	43.5	43.9	44.7	44.4	44.4	43.9	43.5	43.7	44.2	44.7
70°	39.1	39.5	40.0	40.3	40.5	40.7	40.3	39.8	40.0	40.2	40.5
72.5°	35.2	35.6	35.9	36.6	36.6	36.6	36.3	35.9	36.1	36.4	36.8
75°	31.7	31.9	32.2	32.7	32.9	32.5	32.5	32.2	32.4	32.9	33.2
77.5°	28.1	27.8	28.0	28.3	28.8	28.8	29.0	28.8	29.1	29.5	29.8
80°	24.1	23.7	23.4	23.5	24.2	25.1	25.9	25.9	26.4	26.6	27.1
82.5°	19.1	18.8	18.6	19.1	19.0	20.2	22.0	23.0	23.7	24.4	24.7
85°	14.9	14.1	14.4	14.4	14.1	15.9	17.6	19.0	19.1	20.2	20.3
87.5°	8.8	8.5	8.1	7.8	9.0	10.8	12.4	12.9	13.2	13.7	14.2
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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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	282.6	283.9	283.6	283.4	283.6	283.4	282.9	283.1	282.8	282.9	282.6
5°	288.0	288.7	288.2	287.3	287.3	286.1	285.3	284.6	283.8	283.4	282.8
7.5°	293.3	292.7	292.1	290.5	289.7	288.2	287.0	285.6	284.8	283.8	282.6
10°	296.5	295.5	294.1	292.2	289.9	288.5	286.8	284.8	283.8	283.3	282.1
12.5°	298.0	295.3	293.1	289.7	286.3	283.8	281.9	279.9	279.4	278.7	277.8
15°	294.4	290.5	285.0	280.4	276.0	272.4	270.9	268.7	268.2	268.0	267.8
17.5°	282.4	276.5	271.1	265.0	261.1	257.8	256.5	256.0	255.1	254.8	255.0
20°	263.1	258.0	252.6	250.6	246.0	245.1	243.1	241.8	240.2	239.7	238.9
22.5°	240.6	234.3	230.9	229.4	227.5	223.1	222.1	220.7	218.7	217.2	216.9
25°	214.3	209.2	209.1	205.5	204.0	201.6	198.9	197.2	196.0	194.1	192.8
27.5°	187.5	185.7	182.5	179.7	178.7	177.4	173.3	172.5	171.1	169.6	168.1
30°	162.6	161.3	158.2	155.7	154.2	151.5	147.6	147.9	145.2	143.2	141.8
32.5°	138.4	137.4	134.5	133.8	128.9	127.6	123.5	120.5	117.7	115.7	114.0
35°	116.6	113.8	114.0	111.0	108.3	104.2	100.0	96.1	93.9	92.8	91.3
37.5°	100.8	98.3	95.7	92.3	89.3	86.4	83.9	82.7	81.3	81.7	81.8
40°	86.6	84.7	82.8	80.5	78.6	77.4	76.7	76.7	76.9	77.8	78.4
42.5°	76.4	74.9	73.9	73.0	73.4	73.4	73.9	74.7	75.6	76.7	77.4
45°	69.6	68.8	68.4	68.8	69.8	70.6	71.8	73.2	74.5	75.7	76.2
47.5°	65.6	65.1	65.1	65.9	67.4	68.8	70.6	72.0	73.5	74.5	74.9
50°	61.2	61.0	61.0	61.7	63.0	64.7	66.6	67.9	69.3	70.1	70.5
52.5°	58.6	58.1	57.9	58.8	60.0	61.7	63.5	64.9	65.9	66.6	66.7
55°	56.4	55.9	55.6	56.6	57.9	59.5	61.7	63.2	64.2	65.1	65.7
57.5°	54.6	54.0	53.7	54.9	56.2	58.1	60.0	61.7	63.0	64.0	64.7
60°	53.0	52.3	52.0	53.4	54.7	56.6	58.4	60.3	62.2	63.4	63.7
62.5°	51.2	50.7	50.1	51.0	51.7	53.0	54.7	56.6	58.3	59.5	59.5
63°	50.7	50.5	49.8	50.5	51.2	52.3	54.0	55.7	57.4	58.8	58.6
65°	48.5	48.5	48.1	48.8	49.5	50.7	52.0	53.9	55.4	56.4	56.6
67.5°	44.9	45.1	45.4	46.1	47.4	48.6	50.1	51.8	53.2	53.9	54.2
70°	40.8	41.2	41.8	42.9	44.0	45.1	46.1	47.8	49.0	49.6	50.0
72.5°	36.9	37.8	38.3	39.1	39.8	40.8	41.7	43.4	44.4	44.9	45.7
75°	33.4	34.1	34.4	34.9	35.6	35.9	36.9	37.6	39.0	39.6	40.7
77.5°	30.0	30.3	30.8	31.7	31.9	32.4	32.7	33.7	34.4	35.1	35.9
80°	26.9	27.3	28.0	28.5	28.6	29.0	29.1	29.0	28.8	28.3	29.0
82.5°	24.2	24.6	25.4	25.9	26.4	26.4	26.3	24.4	23.5	23.9	24.4
85°	20.0	20.3	21.2	22.2	22.4	22.2	22.4	20.5	19.3	18.8	19.3
87.5°	12.5	12.2	15.1	16.4	15.4	15.8	15.9	14.9	13.9	11.9	12.4
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	0°
2.5°	282.9	281.7	281.9	282.2	282.2	282.8	282.1	281.2	281.7	280.9	280.7	2.5°
5°	282.8	281.2	281.2	281.6	281.2	281.6	281.1	280.2	280.7	279.7	279.5	5°
7.5°	282.1	281.2	281.6	281.9	281.4	281.6	281.4	280.2	280.4	279.9	278.7	7.5°
10°	281.7	281.2	281.9	282.9	282.9	283.1	282.6	281.2	280.4	279.9	278.9	10°
12.5°	278.2	278.9	280.2	282.6	283.4	284.8	285.5	284.8	285.1	284.4	284.1	12.5°
15°	268.0	269.7	271.9	275.5	278.0	281.1	284.8	286.5	289.7	292.2	293.9	15°
17.5°	255.8	257.0	259.4	263.4	266.7	272.8	277.8	283.6	289.9	296.6	302.6	17.5°
20°	240.7	239.9	243.6	248.0	253.6	260.4	267.8	276.5	286.8	297.7	308.0	20°
22.5°	218.5	218.5	222.4	227.7	234.5	242.3	252.6	261.9	275.5	291.2	306.5	22.5°
25°	193.1	193.6	196.4	202.3	207.0	218.2	227.9	239.9	256.2	273.4	293.8	25°
27.5°	166.0	169.4	168.7	175.0	181.3	192.3	205.5	217.7	235.8	254.3	277.5	27.5°
30°	141.5	141.0	140.8	148.2	154.5	164.5	175.3	190.8	209.1	232.8	259.5	30°
32.5°	111.0	112.8	114.2	118.6	125.4	134.7	146.4	162.5	184.5	208.4	238.5	32.5°
35°	91.7	92.2	94.0	96.6	102.5	110.3	122.5	136.7	156.0	180.8	212.8	35°
37.5°	82.2	82.7	84.7	87.1	91.3	97.1	105.4	116.4	134.2	157.2	187.0	37.5°
40°	79.1	79.6	80.8	83.0	86.9	91.8	98.4	106.9	119.8	137.7	163.8	40°
42.5°	77.8	77.8	77.9	79.6	83.5	89.3	96.4	104.0	113.5	127.1	148.2	42.5°
45°	76.2	76.2	76.1	77.3	80.3	86.9	95.6	104.9	115.2	126.9	143.5	45°
47.5°	74.9	74.5	74.2	74.7	77.3	84.0	94.0	105.4	118.6	133.2	149.9	47.5°
50°	70.1	70.1	70.0	70.1	72.5	79.6	91.1	104.9	121.6	140.4	160.8	50°
52.5°	66.7	66.9	67.1	67.1	69.0	76.2	88.9	105.0	125.0	147.6	173.3	52.5°
55°	65.9	66.2	66.2	65.9	67.4	74.0	86.9	104.5	127.4	155.5	186.7	55°
57.5°	64.9	65.1	65.2	64.9	65.9	71.7	84.0	102.2	126.7	158.6	196.7	57.5°
60°	63.5	62.9	62.7	62.2	62.9	67.4	78.9	97.1	122.7	157.2	200.1	60°
62.5°	59.8	59.3	58.8	58.3	58.8	62.2	73.4	90.8	115.9	151.8	197.4	62.5°
63°	59.0	58.6	58.1	57.6	57.6	61.3	71.5	89.3	114.2	150.3	196.4	63°
65°	56.6	56.4	56.1	55.6	55.4	58.3	67.3	82.3	106.2	143.5	189.9	65°
67.5°	53.9	53.9	53.7	53.0	52.2	53.9	60.1	72.0	92.3	126.0	174.0	67.5°
70°	50.0	50.0	49.8	49.5	48.5	49.6	53.7	61.5	76.1	103.0	145.9	70°
72.5°	46.1	46.1	46.6	46.4	46.6	46.8	48.8	53.0	61.8	80.1	110.3	72.5°
75°	41.0	41.8	42.0	42.4	42.5	42.4	43.4	45.9	51.0	61.5	80.5	75°
77.5°	36.8	37.9	37.8	37.4	37.3	37.4	37.3	38.5	42.2	48.8	59.6	77.5°
80°	30.3	31.5	31.5	31.3	31.0	31.3	31.0	32.2	35.2	41.0	47.4	80°
82.5°	24.9	25.8	26.3	26.6	26.3	27.6	27.6	27.3	29.6	34.7	40.0	82.5°
85°	20.0	20.8	21.3	22.0	22.4	22.0	21.9	21.5	22.9	26.9	30.5	85°
87.5°	12.7	13.4	13.4	13.6	13.6	14.1	13.0	11.9	10.8	15.4	16.1	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°
280.2	280.2	280.2	280.2	280.2	280.2	280.2
280.2	280.2	280.4	279.9	280.4	280.4	279.9
279.0	278.7	278.7	278.5	278.9	278.7	278.5
278.0	278.0	277.3	276.8	276.7	277.3	277.0
277.7	277.3	277.2	276.8	277.0	277.5	277.8
283.8	282.6	282.9	282.8	282.9	283.4	284.4
295.0	295.0	295.8	293.9	294.8	295.6	297.0
307.5	310.5	312.1	311.9	312.2	312.9	314.4
318.2	327.8	334.6	336.3	340.9	341.9	339.5
322.9	340.2	355.4	365.6	376.9	381.5	382.9
313.2	338.2	363.2	386.6	409.0	421.8	433.2
303.3	332.7	366.1	401.0	437.4	470.3	494.9
289.4	328.3	373.4	420.5	468.8	514.5	555.5
274.1	321.2	374.1	431.3	491.0	547.9	597.5
252.3	304.6	363.2	429.6	498.8	570.1	632.1
227.2	278.2	343.9	419.8	498.2	581.4	655.8
200.4	252.6	321.7	403.0	491.6	585.0	672.4
180.3	231.9	299.7	387.1	481.8	582.6	680.4
169.9	214.1	281.7	371.5	470.8	576.9	683.8
172.0	209.4	271.1	358.7	461.0	570.6	682.9
183.3	216.5	270.9	353.9	454.7	564.8	680.5
200.4	232.6	280.7	359.5	458.1	564.3	680.4
219.7	255.1	304.4	374.6	472.5	573.5	684.4
238.4	282.6	334.9	408.3	499.8	596.3	700.9
249.4	307.7	374.1	455.9	541.8	636.5	737.0
251.9	322.7	408.8	502.7	599.4	694.6	793.2
251.8	324.3	414.7	512.3	611.1	708.0	807.6
247.9	327.3	430.7	544.2	658.0	765.4	867.7
235.7	321.9	439.5	573.8	704.6	828.8	958.2
207.7	297.2	429.1	583.5	732.4	870.8	1018.5
162.6	245.1	370.5	533.3	694.8	833.2	1020.0
114.4	173.3	285.1	437.9	567.9	704.1	911.1
79.6	112.3	185.2	294.6	409.8	513.7	677.3
58.3	74.7	111.0	176.2	248.7	321.0	420.3
44.9	53.9	71.0	106.4	140.4	179.7	253.4
31.5	35.6	43.9	65.7	94.2	128.6	185.7
13.7	16.1	21.2	38.8	63.7	61.3	58.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)