

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: P145719

Luminaire Tested: **LDRL-SLL-E01-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145719  
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-E01-E-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD 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: 2460.1 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

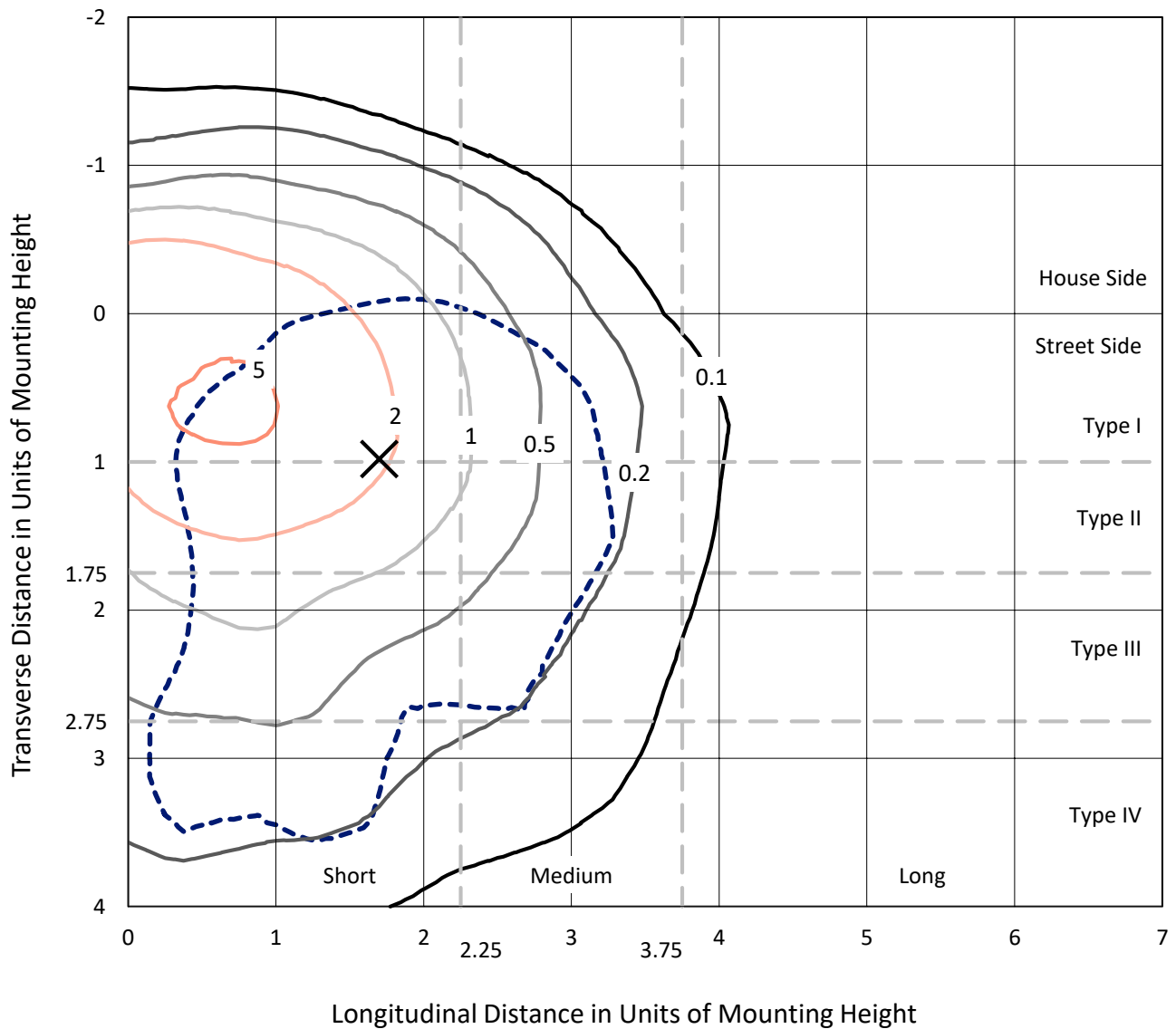
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

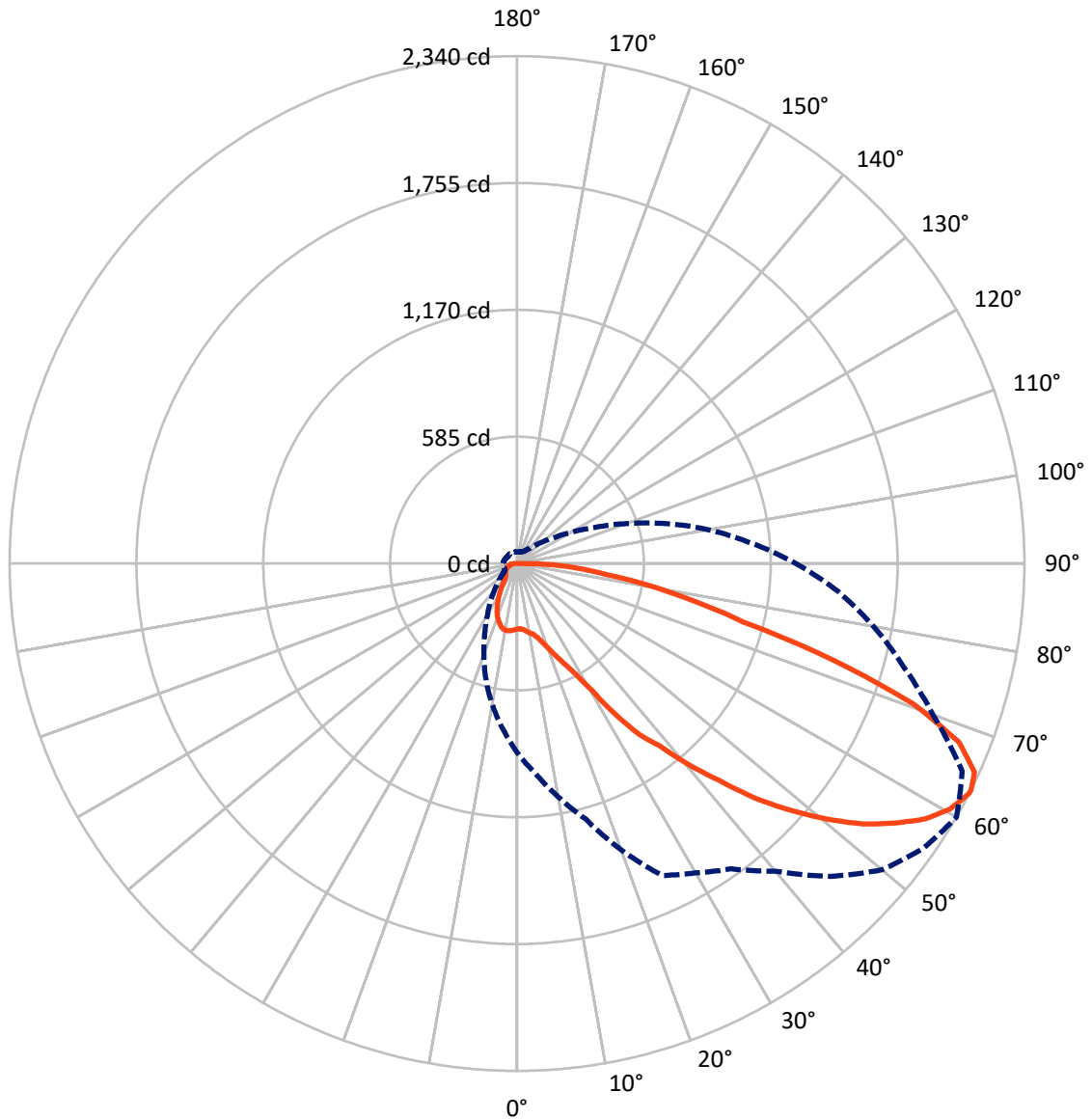
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	515.0	0.0	515.0
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	1945.1	0.0	1945.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	2460.1	0.0	2460.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	1.2
10°-20°	92.6	3.8
20°-30°	163.8	6.7
30°-40°	258.6	10.5
40°-50°	380.2	15.5
50°-60°	500.8	20.4
60°-70°	558.2	22.7
70°-80°	366.8	14.9
80°-90°	109.4	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°	2460.1	100.0
0°-180°	2460.1	100.0



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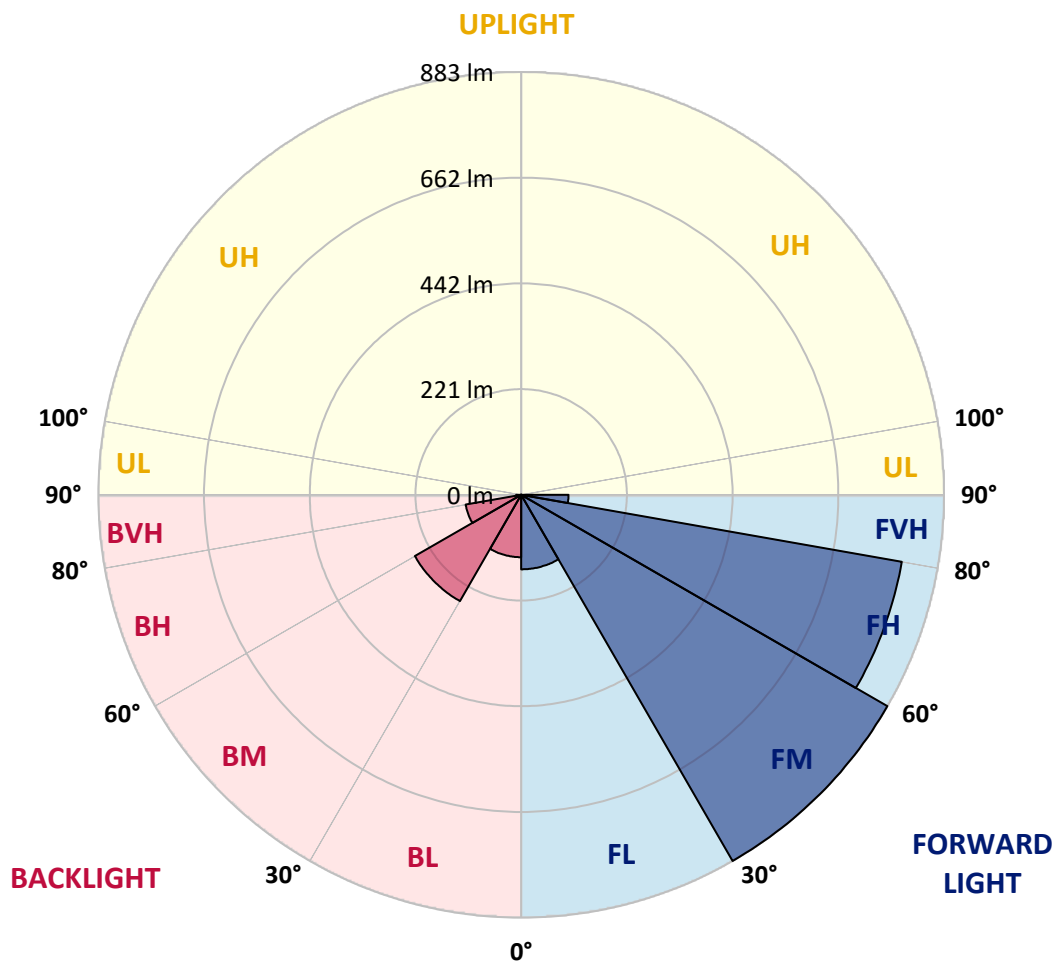
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.7	6.3			
FM	(30°-60°)	883.2	35.9			
FH	(60°-80°)	807.3	32.8			G1/1800
FVH	(80°-90°)	98.9	4.0			G1/100
BL	(0°-30°)	130.4	5.3	B1/500		
BM	(30°-60°)	256.4	10.4	B1/1000		
BH	(60°-80°)	117.7	4.8	B1/500		G1/500
BVH	(80°-90°)	10.5	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°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	301.8	302.0	301.4	301.2	300.9	301.0	301.0	300.7	300.7	300.9	300.3
5°	300.3	300.7	300.5	300.9	301.2	301.8	302.3	302.9	303.4	304.1	304.3
7.5°	298.7	299.8	299.9	301.0	302.3	303.8	305.6	307.6	310.4	311.1	312.7
10°	299.6	301.6	302.7	304.9	306.9	309.6	312.9	314.9	318.4	319.7	322.0
12.5°	306.7	308.2	309.6	312.2	315.1	318.6	322.2	325.3	329.0	330.3	331.2
15°	320.2	321.7	323.3	325.9	329.0	333.2	338.5	342.3	346.7	350.0	352.4
17.5°	339.0	339.0	342.9	343.6	349.6	356.0	362.6	370.1	374.7	377.4	381.8
20°	366.1	366.1	371.2	373.6	378.7	386.9	395.8	404.1	410.6	416.1	420.1
22.5°	412.8	410.8	415.2	414.7	420.9	433.1	441.9	446.4	455.2	458.5	463.8
25°	467.1	474.2	479.0	479.0	481.5	494.1	501.4	504.9	512.9	510.6	516.0
27.5°	533.6	552.8	570.5	577.8	574.3	588.2	590.8	594.0	593.1	587.5	585.8
30°	599.0	632.8	660.4	677.2	696.5	723.4	723.4	727.8	718.3	702.5	693.2
32.5°	644.3	687.8	729.9	764.8	797.7	838.8	856.2	880.3	884.3	890.3	869.5
35°	681.5	742.6	787.9	840.3	880.5	922.1	968.3	1010.2	1037.9	1033.4	1025.1
37.5°	707.1	785.5	848.7	910.2	971.4	1019.1	1063.0	1117.6	1170.7	1181.3	1159.0
40°	725.0	815.8	902.8	978.4	1055.3	1126.9	1180.2	1238.9	1322.2	1357.4	1339.2
42.5°	733.6	839.6	936.5	1032.8	1130.2	1220.6	1287.5	1367.8	1466.7	1526.9	1506.8
45°	737.3	854.2	963.9	1073.6	1190.5	1302.1	1388.3	1479.4	1590.7	1687.5	1691.2
47.5°	736.3	862.0	982.8	1102.6	1237.8	1367.7	1483.3	1586.7	1712.7	1814.5	1852.3
50°	733.8	864.8	994.1	1120.1	1267.5	1415.7	1545.9	1668.9	1809.7	1938.5	1996.0
52.5°	733.6	865.3	999.8	1129.8	1285.1	1445.1	1585.2	1730.4	1884.8	2019.4	2109.1
55°	738.0	868.6	1006.0	1136.6	1294.6	1461.7	1607.3	1769.0	1917.5	2070.4	2186.2
57.5°	755.7	883.9	1020.8	1148.1	1305.2	1474.9	1624.5	1780.1	1927.2	2091.6	2230.9
60°	794.6	912.6	1046.5	1169.3	1332.8	1509.4	1640.7	1764.4	1908.9	2085.5	2237.3
62.5°	855.3	958.7	1082.5	1208.4	1388.8	1575.0	1647.5	1728.4	1863.8	2050.8	2209.8
63°	870.8	970.9	1092.0	1219.1	1405.1	1587.4	1647.0	1718.9	1851.4	2040.6	2197.3
65°	935.6	1027.5	1136.2	1270.7	1479.1	1626.9	1627.0	1663.0	1788.0	1984.2	2146.4
67.5°	1033.2	1120.9	1204.9	1338.6	1560.9	1646.6	1568.0	1540.8	1651.3	1864.7	2017.0
70°	1098.2	1206.5	1253.7	1356.5	1572.1	1622.7	1474.7	1383.9	1475.6	1653.9	1789.3
72.5°	1099.9	1223.3	1237.0	1280.2	1467.8	1508.3	1313.9	1191.0	1246.2	1395.8	1467.0
75°	982.4	1137.7	1109.5	1093.6	1195.2	1212.6	1062.8	1011.6	1082.3	1170.7	1135.1
77.5°	730.3	936.7	879.6	812.0	848.9	851.4	856.2	952.6	1039.4	1075.6	1023.7
80°	453.2	688.1	644.3	532.8	547.1	589.1	715.2	885.6	980.6	1006.5	902.8
82.5°	273.3	506.2	482.8	406.6	424.5	529.2	668.6	715.7	747.7	745.3	638.1
85°	200.2	343.8	375.6	381.2	444.8	513.9	510.9	476.0	456.5	401.7	342.9
87.5°	63.0	177.4	210.4	245.3	268.7	254.3	250.1	216.1	154.7	130.8	143.8
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°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	300.3	301.0	301.4	301.2	301.4	301.4	302.5	302.1	302.5	302.3	303.4
5°	304.9	306.0	306.9	306.9	307.1	307.4	308.9	308.9	309.6	311.1	311.8
7.5°	313.8	315.3	315.5	315.8	316.9	316.4	317.3	317.7	318.2	318.9	319.9
10°	323.1	325.2	325.2	325.0	325.2	323.7	324.2	323.1	323.3	324.4	325.5
12.5°	333.6	334.7	333.9	333.4	333.4	330.6	330.3	328.8	328.1	328.3	328.6
15°	354.4	353.5	353.3	352.4	349.1	347.1	345.6	341.0	338.7	337.4	335.2
17.5°	382.1	382.7	381.8	380.9	376.1	369.4	366.4	361.5	358.2	354.9	350.9
20°	422.7	419.0	418.7	415.8	409.2	399.7	392.6	384.5	380.0	375.2	371.0
22.5°	467.5	463.6	461.1	455.4	445.7	433.7	421.8	411.6	404.6	401.1	398.2
25°	517.1	514.9	510.7	496.3	488.6	474.8	461.8	451.7	443.9	441.0	435.9
27.5°	576.7	578.3	570.5	557.0	547.3	527.7	516.6	499.2	492.7	482.1	475.5
30°	685.2	674.6	661.3	640.6	621.1	594.8	576.3	558.2	548.6	534.3	516.8
32.5°	862.6	822.2	786.4	742.6	701.1	667.5	640.8	618.0	603.2	579.6	549.8
35°	1005.6	966.7	907.5	843.8	789.3	746.2	712.6	691.0	661.4	623.8	580.7
37.5°	1110.5	1065.7	1010.3	961.6	902.2	854.2	808.7	763.9	722.3	665.3	610.3
40°	1280.7	1220.1	1128.9	1071.4	1022.8	957.7	915.2	854.9	791.5	718.1	638.4
42.5°	1449.1	1368.7	1286.2	1220.1	1151.0	1080.5	1022.0	941.1	856.9	761.7	663.6
45°	1644.8	1546.3	1438.3	1345.9	1275.0	1192.1	1117.2	1017.8	910.4	797.5	685.6
47.5°	1798.9	1701.4	1579.5	1486.4	1390.8	1297.3	1200.1	1077.6	950.2	826.8	706.0
50°	1946.7	1852.6	1723.1	1608.8	1499.0	1386.1	1268.6	1120.0	981.5	849.6	722.3
52.5°	2079.3	1995.7	1855.7	1719.1	1596.4	1466.3	1320.7	1159.6	1011.4	873.2	735.1
55°	2191.7	2113.3	1987.8	1817.7	1678.4	1534.4	1369.8	1195.8	1043.0	897.8	744.4
57.5°	2267.1	2221.8	2087.7	1904.5	1745.8	1592.5	1406.9	1232.1	1072.6	913.2	748.4
60°	2302.2	2296.2	2182.7	1982.9	1805.7	1637.8	1453.7	1270.7	1092.2	920.1	742.7
62.5°	2294.9	2338.0	2255.1	2036.6	1843.9	1666.1	1483.6	1287.3	1087.3	903.3	717.7
63°	2288.1	2339.8	2265.3	2041.9	1847.0	1668.9	1486.6	1285.3	1082.7	895.8	709.1
65°	2238.6	2318.3	2267.8	2032.4	1832.7	1661.0	1473.4	1253.7	1037.2	848.7	660.5
67.5°	2117.3	2197.2	2169.2	1927.7	1740.5	1576.6	1381.5	1146.1	925.8	748.6	570.5
70°	1866.9	1938.3	1904.9	1692.4	1518.5	1402.4	1216.9	953.2	754.2	601.7	434.2
72.5°	1476.7	1526.9	1534.2	1365.5	1232.3	1162.5	980.4	719.0	550.9	419.0	281.9
75°	1093.5	1081.8	1084.1	989.9	935.6	906.2	732.9	493.2	371.2	256.1	167.1
77.5°	919.0	835.0	763.4	737.3	674.1	655.8	483.3	302.7	216.6	153.3	95.2
80°	747.3	620.0	515.9	469.6	445.0	448.6	267.4	161.3	113.4	83.5	59.6
82.5°	510.9	414.1	326.6	283.7	279.3	283.5	139.0	79.1	59.9	48.0	37.4
85°	302.1	284.4	253.9	225.4	215.6	203.5	103.4	56.6	30.9	25.6	21.0
87.5°	130.6	160.4	164.2	163.5	152.2	122.2	38.0	14.6	13.0	6.6	5.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	303.4	303.6	303.2	303.6	304.9	304.9	304.7	305.1	305.2	306.3	306.0
5°	312.5	312.7	312.9	314.2	315.1	316.2	315.8	316.2	316.9	317.1	317.5
7.5°	321.0	322.0	323.5	324.1	325.7	326.1	327.7	327.9	328.3	327.5	326.8
10°	326.8	327.9	329.7	330.6	333.6	333.9	335.2	335.6	336.3	335.7	335.2
12.5°	329.7	330.6	332.6	334.5	338.5	339.8	342.0	343.2	344.2	343.6	341.8
15°	335.7	335.6	336.7	338.1	341.8	344.2	347.3	348.9	350.0	349.1	346.7
17.5°	349.6	347.1	347.1	346.2	348.9	349.4	350.7	351.6	351.3	348.5	344.7
20°	368.8	365.0	362.6	360.4	359.5	354.9	352.6	349.3	346.3	341.4	337.0
22.5°	393.7	390.9	385.4	380.5	373.6	364.2	354.2	345.6	339.2	332.5	325.0
25°	431.3	425.1	417.2	405.5	396.6	380.1	363.3	347.1	333.4	322.8	310.2
27.5°	466.7	453.6	438.8	420.5	404.1	382.1	360.8	342.0	324.1	307.1	292.6
30°	496.3	473.5	449.4	423.8	400.4	373.9	349.1	327.7	307.4	287.3	273.6
32.5°	518.6	485.7	453.6	420.9	392.0	361.0	332.5	309.6	286.6	265.4	249.5
35°	538.7	494.3	452.3	413.0	378.9	344.5	313.8	288.3	263.0	240.4	222.1
37.5°	553.1	497.2	446.8	401.7	362.1	324.4	291.2	264.0	236.9	213.9	193.8
40°	564.3	495.8	436.4	384.3	339.0	299.9	267.4	238.9	211.9	188.9	167.9
42.5°	571.8	490.3	420.7	364.6	319.9	278.9	247.2	217.2	190.2	166.0	142.8
45°	581.4	488.1	411.0	349.8	302.5	261.2	227.2	198.0	169.9	144.7	122.6
47.5°	590.6	486.8	403.2	337.6	286.8	245.1	211.5	180.8	152.5	127.9	107.8
50°	596.1	484.8	394.9	322.8	269.3	228.7	196.6	165.5	137.0	113.4	95.5
52.5°	597.7	480.8	384.2	306.0	254.1	214.6	181.2	150.2	122.8	101.6	84.9
55°	596.4	472.9	369.5	292.3	238.6	199.1	165.7	135.5	110.7	90.8	77.5
57.5°	590.2	457.2	350.7	274.9	220.8	179.6	146.7	119.1	97.0	81.1	70.9
60°	576.3	434.6	327.7	250.6	195.5	156.4	125.3	101.6	82.9	71.4	64.7
62.5°	546.0	401.9	294.3	216.3	161.5	125.5	98.5	80.9	68.3	62.3	58.3
63°	537.0	390.5	284.4	207.1	155.6	118.6	92.4	76.5	65.2	60.3	57.0
65°	489.9	338.3	240.4	166.6	120.6	89.9	70.5	60.1	54.1	52.2	51.3
67.5°	401.5	263.2	169.2	111.8	80.9	62.1	52.1	48.0	45.9	45.7	46.2
70°	283.7	174.6	104.7	71.6	55.7	46.9	43.1	41.3	40.2	40.6	41.6
72.5°	184.5	102.5	66.1	52.4	45.3	41.3	38.5	38.0	37.6	37.3	37.6
75°	97.5	64.1	50.1	43.8	39.6	36.4	34.5	33.8	34.0	34.0	34.0
77.5°	60.5	48.8	42.7	38.7	35.4	32.1	30.3	29.8	30.0	30.3	30.5
80°	46.4	42.6	37.6	34.7	30.0	27.2	26.3	26.1	26.5	26.5	27.0
82.5°	34.0	32.9	31.1	27.4	23.7	21.9	21.7	22.5	21.7	21.6	21.9
85°	19.9	18.6	20.3	17.4	15.9	14.8	15.5	17.0	17.7	16.8	16.4
87.5°	6.4	4.4	6.4	7.1	6.4	5.5	6.9	8.2	8.4	8.0	9.1
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	305.8	307.1	305.8	306.3	306.2	305.8	306.3	305.6	305.2	306.3	306.2
5°	317.3	317.5	315.8	316.0	315.8	314.4	314.4	313.6	312.7	312.9	312.5
7.5°	326.6	326.2	325.0	324.4	322.8	321.7	321.0	319.9	319.1	318.4	318.0
10°	333.7	332.8	331.9	330.3	328.6	327.7	325.7	324.1	323.5	322.4	321.7
12.5°	339.9	338.3	336.8	334.8	332.8	331.4	329.0	327.7	326.8	325.3	324.2
15°	343.4	340.3	337.6	334.5	332.3	330.1	327.3	326.8	325.5	324.1	322.0
17.5°	339.2	334.8	329.7	326.4	323.1	319.9	317.1	317.1	316.6	314.9	311.5
20°	330.6	324.1	318.0	312.7	309.4	304.7	303.0	300.5	298.7	295.7	291.4
22.5°	316.6	309.6	301.8	296.5	290.8	285.5	282.2	278.2	276.7	272.0	266.2
25°	300.9	290.8	282.4	275.5	267.6	261.4	256.8	251.4	247.7	243.1	235.8
27.5°	282.2	271.8	262.3	254.6	246.4	237.8	229.4	223.0	216.5	211.2	207.0
30°	262.1	251.4	239.7	230.7	221.2	210.4	203.5	194.9	189.8	183.9	178.5
32.5°	235.8	226.3	212.6	202.2	190.5	182.1	176.5	168.2	162.2	157.3	154.2
35°	207.0	192.7	179.0	171.2	163.1	156.4	148.5	142.1	138.1	133.0	130.2
37.5°	175.5	158.9	147.2	140.3	132.1	128.8	123.9	120.0	116.4	112.9	110.7
40°	147.4	132.1	121.5	115.6	110.2	106.5	103.4	101.7	99.4	96.6	95.0
42.5°	124.0	111.8	101.4	95.9	91.7	91.3	89.3	88.0	87.1	85.5	82.9
45°	105.8	94.6	85.7	81.3	79.5	79.6	79.6	78.5	78.5	78.0	76.4
47.5°	93.5	83.5	76.9	74.0	73.3	73.4	72.9	72.5	72.7	72.5	71.6
50°	84.0	75.4	70.0	68.9	68.7	68.5	67.8	67.2	67.0	67.4	67.2
52.5°	74.3	67.2	64.1	63.8	63.9	63.9	63.8	63.6	63.9	64.3	63.8
55°	68.9	63.8	61.7	61.7	61.7	61.7	61.6	61.4	61.9	62.5	61.6
57.5°	63.8	60.1	59.4	59.4	59.4	59.0	59.0	59.2	59.9	61.0	59.9
60°	59.9	58.1	58.1	58.3	58.1	57.4	56.8	56.8	57.7	59.2	58.3
62.5°	56.3	55.3	55.7	55.5	55.2	54.3	53.5	53.5	54.6	56.1	56.4
63°	55.3	54.6	55.0	54.8	54.4	53.7	53.0	53.0	53.9	55.3	55.9
65°	51.3	51.5	51.7	51.9	51.7	51.5	50.6	50.2	51.0	52.1	52.8
67.5°	46.6	46.9	47.3	48.2	47.9	47.9	47.3	46.9	47.1	47.7	48.2
70°	42.2	42.6	43.1	43.5	43.7	43.8	43.5	42.9	43.1	43.3	43.7
72.5°	38.0	38.4	38.7	39.5	39.5	39.5	39.1	38.7	38.9	39.3	39.6
75°	34.2	34.3	34.7	35.3	35.4	35.1	35.1	34.7	34.9	35.4	35.8
77.5°	30.3	30.0	30.1	30.5	31.1	31.1	31.2	31.1	31.4	31.8	32.1
80°	25.9	25.6	25.2	25.4	26.1	27.0	27.9	27.9	28.5	28.7	29.2
82.5°	20.6	20.3	20.1	20.6	20.5	21.7	23.7	24.8	25.6	26.3	26.7
85°	16.1	15.2	15.5	15.5	15.2	17.2	19.0	20.5	20.6	21.7	21.9
87.5°	9.5	9.1	8.8	8.4	9.7	11.7	13.3	13.9	14.2	14.8	15.3
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	304.7	306.2	305.8	305.6	305.8	305.6	305.1	305.2	304.9	305.1	304.7
5°	310.5	311.3	310.7	309.8	309.8	308.5	307.6	306.9	306.0	305.6	304.9
7.5°	316.2	315.7	314.9	313.3	312.4	310.7	309.4	308.0	307.1	306.0	304.7
10°	319.7	318.6	317.1	315.1	312.5	311.1	309.3	307.1	306.0	305.4	304.1
12.5°	321.3	318.4	316.0	312.4	308.7	306.0	304.0	301.8	301.2	300.5	299.6
15°	317.5	313.3	307.3	302.3	297.6	293.7	292.1	289.7	289.2	289.0	288.8
17.5°	304.5	298.1	292.3	285.7	281.5	278.0	276.6	276.0	275.1	274.7	274.9
20°	283.7	278.2	272.4	270.2	265.2	264.3	262.1	260.7	259.0	258.5	257.6
22.5°	259.4	252.6	249.0	247.3	245.3	240.6	239.5	238.0	235.8	234.2	233.8
25°	231.1	225.6	225.4	221.6	219.9	217.4	214.5	212.6	211.3	209.3	207.9
27.5°	202.2	200.2	196.7	193.8	192.7	191.3	186.9	186.0	184.5	182.9	181.2
30°	175.4	173.9	170.6	167.9	166.2	163.3	159.1	159.5	156.5	154.4	152.9
32.5°	149.2	148.1	145.0	144.3	139.0	137.6	133.2	129.9	127.0	124.8	122.9
35°	125.7	122.8	122.9	119.6	116.7	112.3	107.8	103.6	101.2	100.1	98.5
37.5°	108.7	105.9	103.2	99.6	96.3	93.2	90.4	89.1	87.7	88.0	88.2
40°	93.3	91.3	89.3	86.8	84.8	83.5	82.7	82.7	82.9	83.8	84.6
42.5°	82.4	80.7	79.6	78.7	79.1	79.1	79.6	80.6	81.5	82.7	83.5
45°	75.1	74.2	73.8	74.2	75.3	76.2	77.5	78.9	80.4	81.7	82.2
47.5°	70.7	70.1	70.1	71.1	72.7	74.2	76.2	77.6	79.3	80.4	80.7
50°	65.9	65.8	65.8	66.5	68.0	69.8	71.8	73.3	74.7	75.6	76.0
52.5°	63.2	62.7	62.5	63.4	64.7	66.5	68.5	70.0	71.1	71.8	72.0
55°	60.8	60.3	59.9	61.0	62.5	64.1	66.5	68.1	69.2	70.1	70.9
57.5°	58.8	58.3	57.9	59.2	60.6	62.7	64.7	66.5	68.0	69.0	69.8
60°	57.2	56.4	56.1	57.5	59.0	61.0	63.0	65.0	67.0	68.3	68.7
62.5°	55.2	54.6	54.1	55.0	55.7	57.2	59.0	61.0	62.8	64.1	64.1
63°	54.6	54.4	53.7	54.4	55.2	56.4	58.3	60.1	61.9	63.4	63.2
65°	52.2	52.2	51.9	52.6	53.3	54.6	56.1	58.1	59.7	60.8	61.0
67.5°	48.4	48.6	49.0	49.7	51.1	52.4	54.1	55.9	57.4	58.1	58.5
70°	44.0	44.4	45.1	46.2	47.5	48.6	49.7	51.5	52.8	53.5	53.9
72.5°	39.8	40.7	41.3	42.2	42.9	44.0	44.9	46.8	47.9	48.4	49.3
75°	36.0	36.7	37.1	37.6	38.4	38.7	39.8	40.6	42.0	42.7	43.8
77.5°	32.3	32.7	33.2	34.2	34.3	34.9	35.3	36.4	37.1	37.8	38.7
80°	29.0	29.4	30.1	30.7	30.9	31.2	31.4	31.2	31.1	30.5	31.2
82.5°	26.1	26.5	27.4	27.9	28.5	28.5	28.3	26.3	25.4	25.8	26.3
85°	21.6	21.9	22.8	23.9	24.1	23.9	24.1	22.1	20.8	20.3	20.8
87.5°	13.5	13.2	16.3	17.7	16.6	17.0	17.2	16.1	15.0	12.8	13.3
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	0°
2.5°	305.1	303.8	304.0	304.3	304.3	304.9	304.1	303.2	303.8	302.9	302.7	2.5°
5°	304.9	303.2	303.2	303.6	303.2	303.6	303.0	302.1	302.7	301.6	301.4	5°
7.5°	304.1	303.2	303.6	304.0	303.4	303.6	303.4	302.1	302.3	301.8	300.5	7.5°
10°	303.8	303.2	304.0	305.1	305.1	305.2	304.7	303.2	302.3	301.8	300.7	10°
12.5°	299.9	300.7	302.1	304.7	305.6	307.1	307.8	307.1	307.4	306.7	306.3	12.5°
15°	289.0	290.8	293.2	297.0	299.8	303.0	307.1	308.9	312.4	315.1	316.9	15°
17.5°	275.8	277.1	279.7	284.1	287.5	294.1	299.6	305.8	312.5	319.9	326.2	17.5°
20°	259.6	258.7	262.7	267.4	273.5	280.8	288.8	298.1	309.3	321.0	332.1	20°
22.5°	235.6	235.6	239.8	245.5	252.8	261.2	272.4	282.4	297.0	314.0	330.5	22.5°
25°	208.2	208.8	211.7	218.1	223.2	235.3	245.7	258.7	276.2	294.8	316.7	25°
27.5°	179.0	182.7	181.9	188.7	195.5	207.3	221.6	234.7	254.3	274.2	299.2	27.5°
30°	152.5	152.0	151.8	159.8	166.6	177.4	189.1	205.7	225.4	251.0	279.9	30°
32.5°	119.6	121.7	123.1	127.9	135.2	145.2	157.8	175.2	198.9	224.7	257.2	32.5°
35°	98.8	99.4	101.4	104.1	110.5	118.9	132.1	147.4	168.2	194.9	229.4	35°
37.5°	88.6	89.1	91.3	93.9	98.5	104.7	113.6	125.5	144.7	169.5	201.7	37.5°
40°	85.3	85.9	87.1	89.5	93.7	99.0	106.1	115.3	129.1	148.5	176.6	40°
42.5°	83.8	83.8	84.0	85.9	90.1	96.3	103.9	112.2	122.4	137.0	159.8	42.5°
45°	82.2	82.2	82.0	83.3	86.6	93.7	103.0	113.1	124.2	136.8	154.7	45°
47.5°	80.7	80.4	80.0	80.6	83.3	90.6	101.4	113.6	127.9	143.6	161.7	47.5°
50°	75.6	75.6	75.4	75.6	78.2	85.9	98.3	113.1	131.2	151.4	173.4	50°
52.5°	72.0	72.2	72.3	72.3	74.3	82.2	95.9	113.3	134.8	159.1	186.9	52.5°
55°	71.1	71.4	71.4	71.1	72.7	79.8	93.7	112.7	137.4	167.7	201.3	55°
57.5°	70.0	70.1	70.3	70.0	71.1	77.3	90.6	110.2	136.6	171.0	212.1	57.5°
60°	68.5	67.8	67.6	67.0	67.8	72.7	85.1	104.7	132.3	169.5	215.7	60°
62.5°	64.5	63.9	63.4	62.8	63.4	67.0	79.1	97.9	124.9	163.7	212.8	62.5°
63°	63.6	63.2	62.7	62.1	62.1	66.1	77.1	96.3	123.1	162.0	211.7	63°
65°	61.0	60.8	60.5	59.9	59.7	62.8	72.5	88.8	114.5	154.7	204.8	65°
67.5°	58.1	58.1	57.9	57.2	56.3	58.1	64.8	77.6	99.6	135.9	187.6	67.5°
70°	53.9	53.9	53.7	53.3	52.2	53.5	57.9	66.3	82.0	111.1	157.3	70°
72.5°	49.7	49.7	50.2	50.1	50.2	50.4	52.6	57.2	66.7	86.4	118.9	72.5°
75°	44.2	45.1	45.3	45.7	45.9	45.7	46.8	49.5	55.0	66.3	86.8	75°
77.5°	39.6	40.9	40.7	40.4	40.2	40.4	40.2	41.5	45.5	52.6	64.3	77.5°
80°	32.7	34.0	34.0	33.8	33.4	33.8	33.4	34.7	38.0	44.2	51.1	80°
82.5°	26.9	27.8	28.3	28.7	28.3	29.8	29.8	29.4	32.0	37.4	43.1	82.5°
85°	21.6	22.5	23.0	23.7	24.1	23.7	23.6	23.2	24.7	29.0	32.9	85°
87.5°	13.7	14.4	14.4	14.6	14.6	15.2	14.1	12.8	11.7	16.6	17.4	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°
302.1	302.1	302.1	302.1	302.1	302.1	302.1
302.1	302.1	302.3	301.8	302.3	302.3	301.8
300.9	300.5	300.5	300.3	300.7	300.5	300.3
299.8	299.8	299.0	298.5	298.3	299.0	298.7
299.4	299.0	298.8	298.5	298.7	299.2	299.6
306.0	304.7	305.1	304.9	305.1	305.6	306.7
318.0	318.0	318.9	316.9	317.8	318.8	320.2
331.5	334.8	336.5	336.3	336.7	337.4	339.0
343.1	353.5	360.8	362.6	367.5	368.6	366.1
348.2	366.8	383.2	394.2	406.4	411.4	412.8
337.8	364.6	391.6	416.9	441.0	454.8	467.1
327.0	358.8	394.8	432.4	471.7	507.1	533.6
312.0	354.0	402.6	453.4	505.4	554.8	599.0
295.6	346.3	403.3	465.1	529.4	590.8	644.3
272.0	328.4	391.6	463.3	537.8	614.7	681.5
245.0	299.9	370.8	452.7	537.2	626.9	707.1
216.1	272.4	346.9	434.6	530.1	630.8	725.0
194.4	250.1	323.1	417.4	519.5	628.2	733.6
183.2	230.9	303.8	400.6	507.6	622.0	737.3
185.4	225.8	292.3	386.7	497.0	615.2	736.3
197.6	233.5	292.1	381.6	490.3	609.0	733.8
216.1	250.8	302.7	387.6	493.9	608.5	733.6
236.9	275.1	328.3	403.9	509.5	618.3	738.0
257.0	304.7	361.1	440.2	538.9	643.0	755.7
268.9	331.7	403.3	491.6	584.2	686.3	794.6
271.6	348.0	440.8	542.0	646.3	748.9	855.3
271.4	349.6	447.2	552.4	658.9	763.4	870.8
267.2	352.9	464.3	586.7	709.5	825.3	935.6
254.1	347.1	473.8	618.7	759.7	893.6	1033.2
224.0	320.4	462.7	629.1	789.7	938.9	1098.2
175.4	264.3	399.5	575.0	749.1	898.4	1099.9
123.3	186.9	307.4	472.2	612.3	759.2	982.4
85.9	121.1	199.7	317.7	441.9	553.9	730.3
62.8	80.6	119.6	190.0	268.2	346.2	453.2
48.4	58.1	76.5	114.7	151.4	193.8	273.3
34.0	38.4	47.3	70.9	101.6	138.6	200.2
14.8	17.4	22.8	41.8	68.7	66.1	63.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)