

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: P145724

Luminaire Tested: **LDRL-SLL-F01-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145724
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2030.8 lumens
Efficiency: N/A
Efficacy: 78.4 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

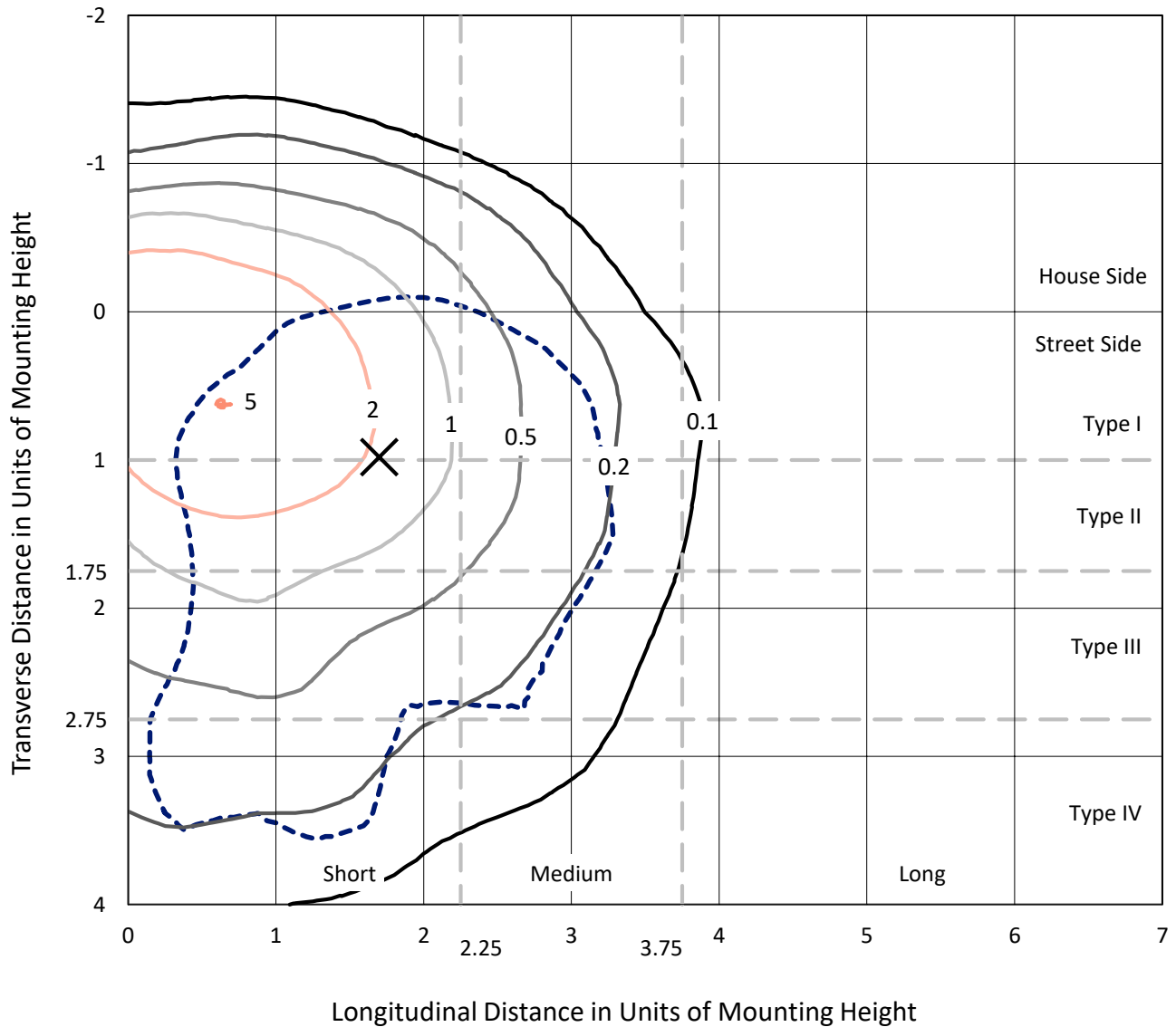
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

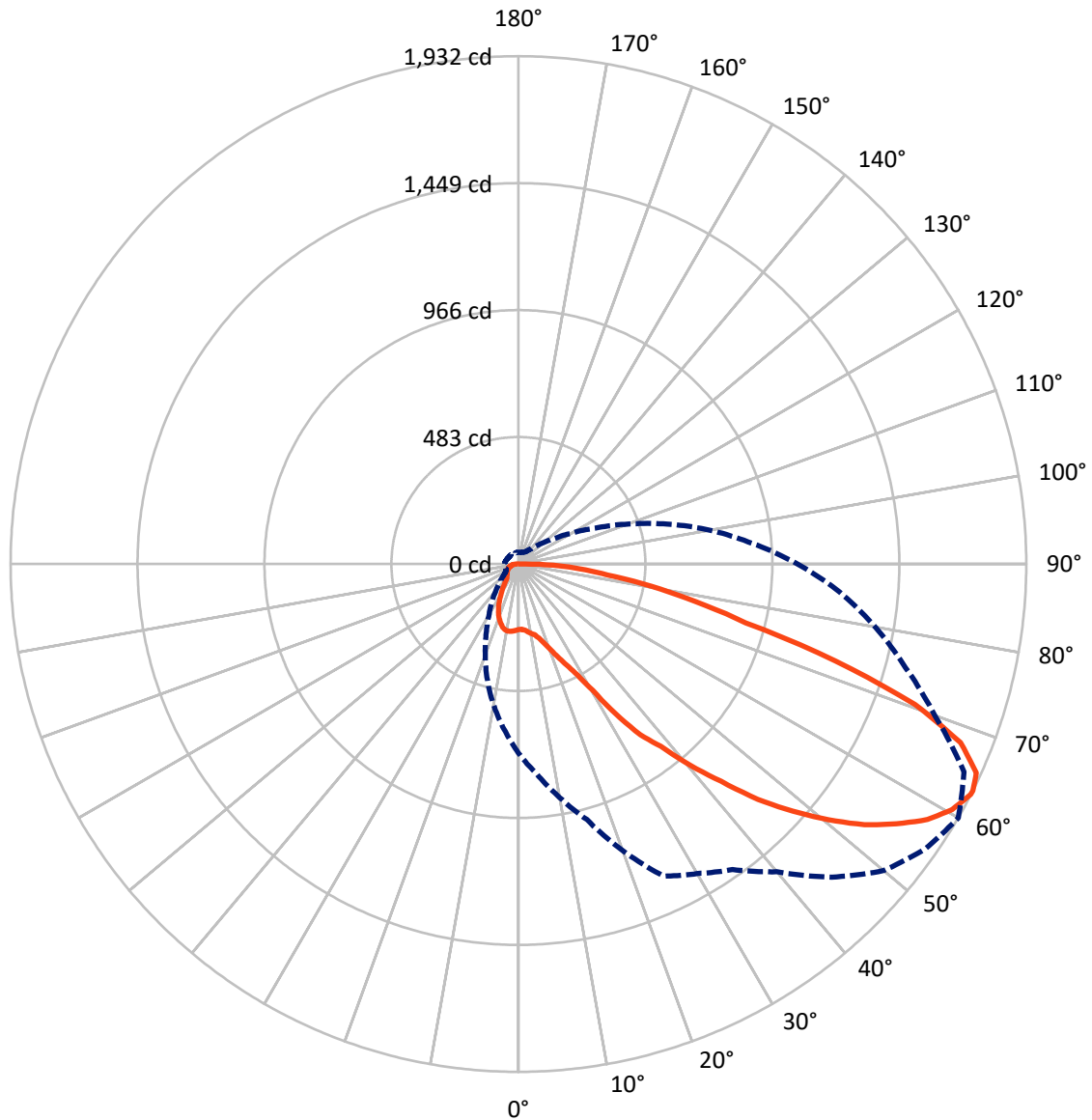
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	425.1	0.0	425.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	1605.7	0.0	1605.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	2030.8	0.0	2030.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	1.2
10°-20°	76.5	3.8
20°-30°	135.2	6.7
30°-40°	213.4	10.5
40°-50°	313.9	15.5
50°-60°	413.5	20.4
60°-70°	460.8	22.7
70°-80°	302.8	14.9
80°-90°	90.3	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°	2030.8	100.0
0°-180°	2030.8	100.0



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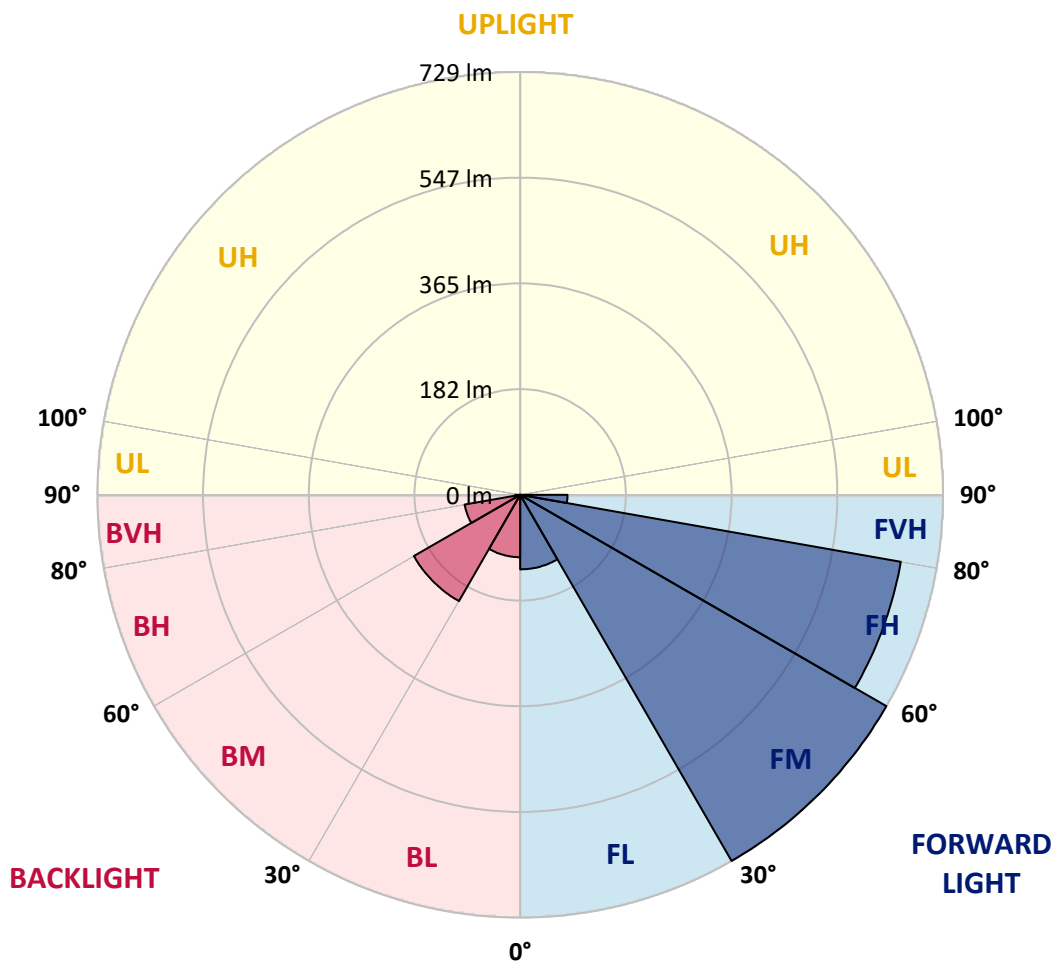
CATALOG NUMBER: LDRL-SLL-F01-E-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.5	6.3			
FM	(30°-60°)	729.1	35.9			
FH	(60°-80°)	666.5	32.8			G1/1800
FVH	(80°-90°)	81.6	4.0			G1/100
BL	(0°-30°)	107.6	5.3	B0/110		
BM	(30°-60°)	211.7	10.4	B0/220		
BH	(60°-80°)	97.2	4.8	B0/110		G0/110
BVH	(80°-90°)	8.7	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°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	249.1	249.3	248.8	248.7	248.4	248.5	248.5	248.2	248.2	248.4	247.9
5°	247.9	248.2	248.1	248.4	248.7	249.1	249.6	250.0	250.5	251.1	251.2
7.5°	246.6	247.5	247.6	248.5	249.6	250.8	252.3	253.9	256.2	256.8	258.2
10°	247.3	249.0	249.9	251.7	253.3	255.6	258.3	260.0	262.8	263.9	265.9
12.5°	253.2	254.4	255.6	257.7	260.1	263.0	266.0	268.6	271.6	272.6	273.4
15°	264.4	265.6	266.9	269.0	271.6	275.1	279.4	282.6	286.2	288.9	290.9
17.5°	279.9	279.9	283.0	283.7	288.6	293.9	299.3	305.5	309.3	311.6	315.2
20°	302.2	302.2	306.4	308.4	312.6	319.4	326.8	333.6	339.0	343.5	346.8
22.5°	340.8	339.1	342.8	342.3	347.4	357.5	364.8	368.6	375.8	378.5	382.9
25°	385.6	391.5	395.4	395.4	397.5	407.9	413.9	416.8	423.4	421.5	426.0
27.5°	440.5	456.3	470.9	477.0	474.1	485.6	487.7	490.4	489.6	485.0	483.6
30°	494.5	522.4	545.1	559.0	575.0	597.2	597.2	600.8	592.9	580.0	572.3
32.5°	531.9	567.8	602.6	631.4	658.5	692.5	706.8	726.7	730.0	735.0	717.8
35°	562.6	613.0	650.4	693.7	726.8	761.2	799.4	833.9	856.8	853.1	846.3
37.5°	583.7	648.4	700.6	751.4	801.9	841.3	877.5	922.6	966.5	975.2	956.8
40°	598.5	673.5	745.2	807.7	871.2	930.3	974.3	1022.7	1091.5	1120.6	1105.5
42.5°	605.6	693.1	773.1	852.6	933.0	1007.6	1062.8	1129.2	1210.8	1260.5	1243.9
45°	608.6	705.1	795.8	886.2	982.8	1074.9	1146.1	1221.3	1313.2	1393.1	1396.1
47.5°	607.9	711.6	811.3	910.2	1021.8	1129.0	1224.5	1309.8	1413.9	1497.9	1529.1
50°	605.8	713.9	820.6	924.7	1046.4	1168.7	1276.2	1377.7	1494.0	1600.3	1647.8
52.5°	605.6	714.3	825.3	932.7	1060.9	1193.0	1308.6	1428.5	1555.9	1667.1	1741.1
55°	609.2	717.0	830.4	938.3	1068.7	1206.7	1326.9	1460.3	1582.9	1709.2	1804.8
57.5°	623.9	729.7	842.7	947.8	1077.5	1217.5	1341.1	1469.5	1590.9	1726.6	1841.7
60°	656.0	753.4	863.9	965.3	1100.2	1246.0	1354.5	1456.6	1575.8	1721.7	1847.0
62.5°	706.0	791.4	893.6	997.5	1146.5	1300.2	1360.1	1426.9	1538.6	1693.0	1824.2
63°	718.9	801.5	901.5	1006.4	1159.9	1310.4	1359.6	1419.0	1528.3	1684.6	1814.0
65°	772.4	848.2	938.0	1049.0	1221.0	1343.0	1343.2	1372.9	1476.0	1638.0	1771.9
67.5°	852.9	925.3	994.7	1105.1	1288.6	1359.3	1294.5	1272.0	1363.2	1539.4	1665.1
70°	906.6	996.0	1034.9	1119.8	1297.8	1339.5	1217.4	1142.5	1218.2	1365.3	1477.1
72.5°	908.0	1009.9	1021.2	1056.8	1211.7	1245.1	1084.7	983.2	1028.7	1152.3	1211.1
75°	811.0	939.2	916.0	902.8	986.7	1001.0	877.3	835.1	893.5	966.5	937.1
77.5°	602.9	773.3	726.1	670.3	700.8	702.9	706.8	786.4	858.0	887.9	845.1
80°	374.1	568.1	531.9	439.9	451.6	486.3	590.4	731.1	809.5	830.9	745.2
82.5°	225.6	417.9	398.6	335.7	350.5	436.9	551.9	590.8	617.2	615.3	526.7
85°	165.3	283.8	310.0	314.7	367.2	424.2	421.8	393.0	376.8	331.6	283.0
87.5°	52.0	146.4	173.7	202.5	221.8	209.9	206.4	178.4	127.7	108.0	118.7
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°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	247.9	248.5	248.8	248.7	248.8	248.8	249.7	249.4	249.7	249.6	250.5
5°	251.7	252.6	253.3	253.3	253.5	253.8	255.0	255.0	255.6	256.8	257.4
7.5°	259.1	260.3	260.4	260.7	261.6	261.2	261.9	262.2	262.7	263.3	264.0
10°	266.8	268.4	268.4	268.3	268.4	267.2	267.7	266.8	266.9	267.8	268.7
12.5°	275.4	276.3	275.7	275.2	275.2	272.9	272.6	271.4	270.8	271.0	271.3
15°	292.5	291.8	291.6	290.9	288.2	286.5	285.3	281.5	279.6	278.5	276.7
17.5°	315.5	315.9	315.2	314.4	310.5	304.9	302.5	298.4	295.7	293.0	289.7
20°	348.9	345.9	345.6	343.2	337.8	329.9	324.1	317.4	313.7	309.7	306.3
22.5°	385.9	382.7	380.6	375.9	367.9	358.0	348.2	339.7	334.0	331.2	328.7
25°	426.9	425.1	421.6	409.7	403.4	391.9	381.2	372.9	366.4	364.0	359.8
27.5°	476.1	477.4	470.9	459.8	451.8	435.7	426.5	412.1	406.7	398.0	392.5
30°	565.6	556.9	545.9	528.9	512.7	491.0	475.8	460.8	452.8	441.1	426.6
32.5°	712.1	678.7	649.2	613.0	578.8	551.0	529.0	510.2	497.9	478.5	453.9
35°	830.1	798.0	749.2	696.5	651.6	616.0	588.3	570.5	546.0	515.0	479.4
37.5°	916.7	879.8	834.1	793.8	744.8	705.1	667.6	630.6	596.3	549.2	503.8
40°	1057.2	1007.2	931.9	884.4	844.3	790.6	755.5	705.7	653.4	592.8	527.0
42.5°	1196.3	1129.9	1061.8	1007.2	950.2	892.0	843.7	776.9	707.4	628.8	547.9
45°	1357.8	1276.5	1187.4	1111.1	1052.6	984.1	922.3	840.3	751.6	658.4	565.9
47.5°	1485.1	1404.5	1304.0	1227.0	1148.2	1071.0	990.7	889.6	784.5	682.5	582.8
50°	1607.1	1529.4	1422.5	1328.1	1237.5	1144.3	1047.3	924.5	810.2	701.4	596.3
52.5°	1716.5	1647.5	1532.0	1419.2	1317.8	1210.5	1090.3	957.3	835.0	720.8	606.8
55°	1809.3	1744.6	1641.0	1500.6	1385.5	1266.7	1130.8	987.1	861.1	741.2	614.5
57.5°	1871.6	1834.2	1723.5	1572.2	1441.2	1314.7	1161.5	1017.1	885.5	753.8	617.8
60°	1900.5	1895.5	1801.9	1636.9	1490.6	1352.1	1200.1	1049.0	901.6	759.6	613.1
62.5°	1894.5	1930.1	1861.6	1681.3	1522.2	1375.4	1224.8	1062.7	897.6	745.7	592.5
63°	1888.9	1931.6	1870.1	1685.6	1524.7	1377.7	1227.2	1061.0	893.8	739.5	585.4
65°	1848.0	1913.8	1872.2	1677.8	1513.0	1371.2	1216.3	1034.9	856.2	700.6	545.3
67.5°	1747.9	1813.8	1790.7	1591.4	1436.8	1301.5	1140.5	946.1	764.2	618.0	470.9
70°	1541.2	1600.1	1572.5	1397.1	1253.6	1157.7	1004.6	786.9	622.6	496.7	358.4
72.5°	1219.1	1260.5	1266.6	1127.2	1017.3	959.7	809.3	593.5	454.8	345.9	232.7
75°	902.7	893.0	895.0	817.2	772.4	748.1	605.0	407.2	306.4	211.4	138.0
77.5°	758.7	689.3	630.2	608.6	556.4	541.4	399.0	249.9	178.8	126.5	78.6
80°	616.9	511.8	425.9	387.7	367.3	370.4	220.8	133.2	93.6	68.9	49.2
82.5°	421.8	341.9	269.6	234.2	230.6	234.0	114.8	65.3	49.5	39.7	30.9
85°	249.4	234.8	209.6	186.1	177.9	168.0	85.4	46.7	25.5	21.1	17.3
87.5°	107.8	132.4	135.6	135.0	125.6	100.9	31.4	12.1	10.7	5.4	4.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	250.5	250.6	250.3	250.6	251.7	251.7	251.5	251.8	252.0	252.9	252.6
5°	258.0	258.2	258.3	259.4	260.1	261.0	260.7	261.0	261.6	261.8	262.1
7.5°	265.0	265.9	267.1	267.5	268.9	269.2	270.5	270.7	271.0	270.4	269.8
10°	269.8	270.7	272.2	272.9	275.4	275.7	276.7	277.0	277.6	277.2	276.7
12.5°	272.2	272.9	274.6	276.1	279.4	280.5	282.3	283.4	284.1	283.7	282.1
15°	277.2	277.0	277.9	279.1	282.1	284.1	286.7	288.0	288.9	288.2	286.2
17.5°	288.6	286.5	286.5	285.8	288.0	288.5	289.5	290.3	290.0	287.7	284.6
20°	304.5	301.3	299.3	297.5	296.8	293.0	291.0	288.3	285.9	281.8	278.2
22.5°	325.0	322.7	318.2	314.1	308.4	300.7	292.4	285.3	280.0	274.5	268.3
25°	356.0	350.9	344.4	334.8	327.4	313.8	299.9	286.5	275.2	266.5	256.1
27.5°	385.3	374.4	362.2	347.1	333.6	315.5	297.8	282.3	267.5	253.5	241.6
30°	409.7	390.9	371.0	349.9	330.6	308.7	288.2	270.5	253.8	237.2	225.9
32.5°	428.1	401.0	374.4	347.4	323.6	298.0	274.5	255.6	236.6	219.1	206.0
35°	444.7	408.1	373.4	341.0	312.8	284.4	259.1	238.0	217.2	198.5	183.4
37.5°	456.6	410.5	368.9	331.6	298.9	267.8	240.4	217.9	195.6	176.6	160.0
40°	465.8	409.3	360.3	317.3	279.9	247.6	220.8	197.2	174.9	155.9	138.6
42.5°	472.0	404.7	347.3	301.0	264.0	230.3	204.0	179.3	157.0	137.1	117.9
45°	480.0	402.9	339.3	288.8	249.7	215.6	187.6	163.5	140.2	119.4	101.2
47.5°	487.5	401.9	332.8	278.7	236.8	202.4	174.6	149.3	125.9	105.6	89.0
50°	492.1	400.2	326.0	266.5	222.3	188.8	162.3	136.6	113.1	93.6	78.9
52.5°	493.4	396.9	317.1	252.6	209.8	177.2	149.6	124.0	101.3	83.8	70.1
55°	492.4	390.4	305.1	241.3	196.9	164.4	136.8	111.9	91.4	74.9	63.9
57.5°	487.2	377.4	289.5	227.0	182.3	148.2	121.1	98.3	80.1	67.0	58.5
60°	475.8	358.8	270.5	206.9	161.4	129.1	103.4	83.8	68.5	59.0	53.4
62.5°	450.7	331.8	242.9	178.5	133.3	103.6	81.3	66.8	56.4	51.4	48.1
63°	443.3	322.4	234.8	171.0	128.5	97.9	76.3	63.2	53.8	49.8	47.0
65°	404.4	279.3	198.5	137.5	99.5	74.2	58.2	49.6	44.6	43.1	42.4
67.5°	331.5	217.3	139.6	92.3	66.8	51.3	43.0	39.7	37.9	37.7	38.2
70°	234.2	144.2	86.4	59.1	46.0	38.8	35.6	34.1	33.2	33.5	34.4
72.5°	152.3	84.6	54.6	43.3	37.4	34.1	31.8	31.4	31.1	30.8	31.1
75°	80.5	52.9	41.3	36.2	32.7	30.0	28.5	27.9	28.0	28.0	28.0
77.5°	49.9	40.3	35.3	32.0	29.3	26.5	25.0	24.6	24.7	25.0	25.2
80°	38.3	35.1	31.1	28.7	24.7	22.5	21.7	21.6	21.9	21.9	22.3
82.5°	28.0	27.1	25.6	22.6	19.6	18.1	17.9	18.5	17.9	17.8	18.1
85°	16.4	15.4	16.7	14.3	13.1	12.2	12.8	14.0	14.6	13.9	13.6
87.5°	5.3	3.6	5.3	5.9	5.3	4.5	5.7	6.8	6.9	6.6	7.5
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°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	252.4	253.5	252.4	252.9	252.7	252.4	252.9	252.3	252.0	252.9	252.7
5°	261.9	262.1	260.7	260.9	260.7	259.5	259.5	258.9	258.2	258.3	258.0
7.5°	269.6	269.3	268.3	267.8	266.5	265.6	265.0	264.0	263.4	262.8	262.5
10°	275.5	274.8	274.0	272.6	271.3	270.5	268.9	267.5	267.1	266.2	265.6
12.5°	280.6	279.3	278.1	276.4	274.8	273.5	271.6	270.5	269.8	268.6	267.7
15°	283.5	280.9	278.7	276.1	274.3	272.5	270.2	269.8	268.7	267.5	265.9
17.5°	280.0	276.4	272.2	269.5	266.8	264.0	261.8	261.8	261.3	260.0	257.1
20°	272.9	267.5	262.5	258.2	255.5	251.5	250.2	248.1	246.6	244.1	240.5
22.5°	261.3	255.6	249.1	244.7	240.1	235.7	233.0	229.7	228.5	224.5	219.7
25°	248.4	240.1	233.1	227.4	220.9	215.8	212.0	207.5	204.5	200.7	194.7
27.5°	233.0	224.4	216.5	210.2	203.4	196.3	189.4	184.1	178.7	174.3	170.9
30°	216.4	207.5	197.8	190.5	182.6	173.7	168.0	160.9	156.7	151.9	147.3
32.5°	194.7	186.8	175.5	166.9	157.3	150.3	145.7	138.9	133.9	129.8	127.3
35°	170.9	159.1	147.8	141.3	134.7	129.1	122.6	117.3	114.0	109.8	107.5
37.5°	144.9	131.2	121.5	115.8	109.0	106.3	102.2	99.1	96.1	93.2	91.4
40°	121.7	109.0	100.3	95.5	90.9	87.9	85.4	84.0	82.0	79.8	78.4
42.5°	102.4	92.3	83.7	79.2	75.7	75.4	73.7	72.7	71.9	70.6	68.5
45°	87.3	78.1	70.7	67.1	65.6	65.7	65.7	64.8	64.8	64.4	63.0
47.5°	77.2	68.9	63.5	61.1	60.5	60.6	60.2	59.9	60.0	59.9	59.1
50°	69.4	62.3	57.8	56.9	56.7	56.5	55.9	55.5	55.3	55.6	55.5
52.5°	61.4	55.5	52.9	52.6	52.8	52.8	52.6	52.5	52.8	53.1	52.6
55°	56.9	52.6	51.0	51.0	51.0	51.0	50.8	50.7	51.1	51.6	50.8
57.5°	52.6	49.6	49.0	49.0	49.0	48.7	48.7	48.9	49.5	50.4	49.5
60°	49.5	48.0	48.0	48.1	48.0	47.4	46.9	46.9	47.7	48.9	48.1
62.5°	46.4	45.7	46.0	45.8	45.5	44.8	44.2	44.2	45.1	46.3	46.6
63°	45.7	45.1	45.4	45.2	44.9	44.3	43.7	43.7	44.5	45.7	46.1
65°	42.4	42.5	42.7	42.8	42.7	42.5	41.8	41.5	42.1	43.0	43.6
67.5°	38.5	38.8	39.1	39.8	39.5	39.5	39.1	38.8	38.9	39.4	39.8
70°	34.8	35.1	35.6	35.9	36.0	36.2	35.9	35.4	35.6	35.7	36.0
72.5°	31.4	31.7	32.0	32.6	32.6	32.6	32.3	32.0	32.1	32.4	32.7
75°	28.2	28.4	28.7	29.1	29.3	29.0	29.0	28.7	28.8	29.3	29.6
77.5°	25.0	24.7	24.9	25.2	25.6	25.6	25.8	25.6	25.9	26.2	26.5
80°	21.4	21.1	20.8	21.0	21.6	22.3	23.1	23.1	23.5	23.7	24.1
82.5°	17.0	16.7	16.6	17.0	16.9	17.9	19.6	20.5	21.1	21.7	22.0
85°	13.3	12.5	12.8	12.8	12.5	14.2	15.7	16.9	17.0	17.9	18.1
87.5°	7.8	7.5	7.2	6.9	8.0	9.7	11.0	11.5	11.8	12.2	12.7
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°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	251.5	252.7	252.4	252.3	252.4	252.3	251.8	252.0	251.7	251.8	251.5
5°	256.4	257.0	256.5	255.8	255.8	254.7	253.9	253.3	252.6	252.3	251.7
7.5°	261.0	260.6	260.0	258.6	257.9	256.5	255.5	254.2	253.5	252.6	251.5
10°	263.9	263.0	261.8	260.1	258.0	256.8	255.3	253.5	252.6	252.1	251.1
12.5°	265.3	262.8	260.9	257.9	254.8	252.6	250.9	249.1	248.7	248.1	247.3
15°	262.1	258.6	253.6	249.6	245.7	242.5	241.1	239.2	238.7	238.6	238.4
17.5°	251.4	246.1	241.3	235.8	232.4	229.5	228.3	227.9	227.1	226.8	227.0
20°	234.2	229.7	224.8	223.0	219.0	218.2	216.4	215.2	213.8	213.4	212.6
22.5°	214.1	208.6	205.5	204.2	202.5	198.6	197.7	196.5	194.7	193.3	193.0
25°	190.8	186.2	186.1	182.9	181.6	179.5	177.0	175.5	174.5	172.8	171.6
27.5°	166.9	165.3	162.4	160.0	159.1	157.9	154.3	153.5	152.3	150.9	149.6
30°	144.8	143.6	140.8	138.6	137.2	134.8	131.3	131.6	129.2	127.4	126.2
32.5°	123.2	122.3	119.7	119.1	114.8	113.6	109.9	107.2	104.8	103.0	101.5
35°	103.7	101.3	101.5	98.8	96.4	92.7	89.0	85.5	83.5	82.6	81.3
37.5°	89.7	87.5	85.2	82.2	79.5	76.9	74.6	73.6	72.4	72.7	72.8
40°	77.1	75.4	73.7	71.6	70.0	68.9	68.3	68.3	68.5	69.2	69.8
42.5°	68.0	66.7	65.7	65.0	65.3	65.3	65.7	66.5	67.3	68.3	68.9
45°	62.0	61.2	60.9	61.2	62.1	62.9	63.9	65.1	66.4	67.4	67.9
47.5°	58.4	57.9	57.9	58.7	60.0	61.2	62.9	64.1	65.4	66.4	66.7
50°	54.4	54.3	54.3	54.9	56.1	57.6	59.3	60.5	61.7	62.4	62.7
52.5°	52.2	51.7	51.6	52.3	53.4	54.9	56.5	57.8	58.7	59.3	59.4
55°	50.2	49.8	49.5	50.4	51.6	52.9	54.9	56.2	57.2	57.9	58.5
57.5°	48.6	48.1	47.8	48.9	50.1	51.7	53.4	54.9	56.1	57.0	57.6
60°	47.2	46.6	46.3	47.5	48.7	50.4	52.0	53.7	55.3	56.4	56.7
62.5°	45.5	45.1	44.6	45.4	46.0	47.2	48.7	50.4	51.9	52.9	52.9
63°	45.1	44.9	44.3	44.9	45.5	46.6	48.1	49.6	51.1	52.3	52.2
65°	43.1	43.1	42.8	43.4	44.0	45.1	46.3	48.0	49.3	50.2	50.4
67.5°	40.0	40.1	40.4	41.0	42.2	43.3	44.6	46.1	47.4	48.0	48.3
70°	36.3	36.6	37.2	38.2	39.2	40.1	41.0	42.5	43.6	44.2	44.5
72.5°	32.9	33.6	34.1	34.8	35.4	36.3	37.1	38.6	39.5	40.0	40.7
75°	29.7	30.3	30.6	31.1	31.7	32.0	32.9	33.5	34.7	35.3	36.2
77.5°	26.7	27.0	27.4	28.2	28.4	28.8	29.1	30.0	30.6	31.2	32.0
80°	24.0	24.3	24.9	25.3	25.5	25.8	25.9	25.8	25.6	25.2	25.8
82.5°	21.6	21.9	22.6	23.1	23.5	23.5	23.4	21.7	21.0	21.3	21.7
85°	17.8	18.1	18.8	19.8	19.9	19.8	19.9	18.2	17.2	16.7	17.2
87.5°	11.2	10.9	13.4	14.6	13.7	14.0	14.2	13.3	12.4	10.6	11.0
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	0°
2.5°	251.8	250.8	250.9	251.2	251.2	251.7	251.1	250.3	250.8	250.0	249.9	2.5°
5°	251.7	250.3	250.3	250.6	250.3	250.6	250.2	249.4	249.9	249.0	248.8	5°
7.5°	251.1	250.3	250.6	250.9	250.5	250.6	250.5	249.4	249.6	249.1	248.1	7.5°
10°	250.8	250.3	250.9	251.8	251.8	252.0	251.5	250.3	249.6	249.1	248.2	10°
12.5°	247.6	248.2	249.4	251.5	252.3	253.5	254.1	253.5	253.8	253.2	252.9	12.5°
15°	238.6	240.1	242.0	245.2	247.5	250.2	253.5	255.0	257.9	260.1	261.6	15°
17.5°	227.7	228.8	230.9	234.5	237.4	242.8	247.3	252.4	258.0	264.0	269.3	17.5°
20°	214.3	213.5	216.8	220.8	225.7	231.8	238.4	246.1	255.3	265.0	274.2	20°
22.5°	194.5	194.5	198.0	202.7	208.7	215.6	224.8	233.1	245.2	259.2	272.8	22.5°
25°	171.9	172.4	174.8	180.1	184.3	194.2	202.8	213.5	228.0	243.4	261.5	25°
27.5°	147.8	150.8	150.2	155.8	161.4	171.2	182.9	193.8	209.9	226.3	247.0	27.5°
30°	125.9	125.5	125.3	131.9	137.5	146.4	156.1	169.8	186.1	207.2	231.0	30°
32.5°	98.8	100.4	101.6	105.6	111.6	119.9	130.3	144.6	164.2	185.5	212.3	32.5°
35°	81.6	82.0	83.7	86.0	91.2	98.2	109.0	121.7	138.9	160.9	189.4	35°
37.5°	73.1	73.6	75.4	77.5	81.3	86.4	93.8	103.6	119.4	139.9	166.5	37.5°
40°	70.4	70.9	71.9	73.9	77.4	81.7	87.6	95.2	106.6	122.6	145.8	40°
42.5°	69.2	69.2	69.4	70.9	74.3	79.5	85.8	92.6	101.0	113.1	131.9	42.5°
45°	67.9	67.9	67.7	68.8	71.5	77.4	85.1	93.3	102.5	112.9	127.7	45°
47.5°	66.7	66.4	66.0	66.5	68.8	74.8	83.7	93.8	105.6	118.5	133.5	47.5°
50°	62.4	62.4	62.3	62.4	64.5	70.9	81.1	93.3	108.3	125.0	143.1	50°
52.5°	59.4	59.6	59.7	59.7	61.4	67.9	79.2	93.5	111.3	131.3	154.3	52.5°
55°	58.7	59.0	59.0	58.7	60.0	65.9	77.4	93.0	113.4	138.4	166.2	55°
57.5°	57.8	57.9	58.1	57.8	58.7	63.8	74.8	90.9	112.8	141.1	175.1	57.5°
60°	56.5	55.9	55.8	55.3	55.9	60.0	70.3	86.4	109.2	139.9	178.1	60°
62.5°	53.2	52.8	52.3	51.9	52.3	55.3	65.3	80.8	103.1	135.1	175.7	62.5°
63°	52.5	52.2	51.7	51.3	51.3	54.6	63.6	79.5	101.6	133.8	174.8	63°
65°	50.4	50.2	49.9	49.5	49.3	51.9	59.9	73.3	94.6	127.7	169.0	65°
67.5°	48.0	48.0	47.8	47.2	46.4	48.0	53.5	64.1	82.2	112.2	154.9	67.5°
70°	44.5	44.5	44.3	44.0	43.1	44.2	47.8	54.7	67.7	91.7	129.8	70°
72.5°	41.0	41.0	41.5	41.3	41.5	41.6	43.4	47.2	55.0	71.3	98.2	72.5°
75°	36.5	37.2	37.4	37.7	37.9	37.7	38.6	40.9	45.4	54.7	71.6	75°
77.5°	32.7	33.8	33.6	33.3	33.2	33.3	33.2	34.2	37.5	43.4	53.1	77.5°
80°	27.0	28.0	28.0	27.9	27.6	27.9	27.6	28.7	31.4	36.5	42.2	80°
82.5°	22.2	22.9	23.4	23.7	23.4	24.6	24.6	24.3	26.4	30.9	35.6	82.5°
85°	17.8	18.5	19.0	19.6	19.9	19.6	19.5	19.2	20.4	24.0	27.1	85°
87.5°	11.3	11.9	11.9	12.1	12.1	12.5	11.6	10.6	9.7	13.7	14.3	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°
249.4	249.4	249.4	249.4	249.4	249.4	249.4
249.4	249.4	249.6	249.1	249.6	249.6	249.1
248.4	248.1	248.1	247.9	248.2	248.1	247.9
247.5	247.5	246.9	246.4	246.3	246.9	246.6
247.2	246.9	246.7	246.4	246.6	247.0	247.3
252.6	251.5	251.8	251.7	251.8	252.3	253.2
262.5	262.5	263.3	261.6	262.4	263.1	264.4
273.7	276.4	277.8	277.6	277.9	278.5	279.9
283.2	291.8	297.8	299.3	303.4	304.3	302.2
287.4	302.8	316.4	325.4	335.5	339.6	340.8
278.8	301.0	323.3	344.1	364.0	375.5	385.6
269.9	296.2	325.9	356.9	389.4	418.6	440.5
257.6	292.2	332.4	374.3	417.3	458.0	494.5
244.0	285.9	333.0	383.9	437.0	487.7	531.9
224.5	271.1	323.3	382.4	444.0	507.4	562.6
202.2	247.6	306.1	373.7	443.5	517.5	583.7
178.4	224.8	286.4	358.8	437.6	520.7	598.5
160.4	206.4	266.8	344.6	428.9	518.6	605.6
151.3	190.6	250.8	330.7	419.1	513.5	608.6
153.1	186.4	241.3	319.2	410.3	507.9	607.9
163.2	192.7	241.1	315.0	404.7	502.8	605.8
178.4	207.0	249.9	320.0	407.8	502.3	605.6
195.6	227.1	271.0	333.4	420.6	510.5	609.2
212.2	251.5	298.1	363.4	444.9	530.8	623.9
222.0	273.9	333.0	405.8	482.3	566.6	656.0
224.2	287.3	363.9	447.4	533.5	618.3	706.0
224.1	288.6	369.2	456.0	543.9	630.2	718.9
220.6	291.3	383.3	484.4	585.7	681.3	772.4
209.8	286.5	391.2	510.8	627.2	737.7	852.9
184.9	264.5	382.0	519.4	651.9	775.1	906.6
144.8	218.2	329.8	474.7	618.4	741.6	908.0
101.8	154.3	253.8	389.8	505.5	626.7	811.0
70.9	100.0	164.8	262.2	364.8	457.2	602.9
51.9	66.5	98.8	156.8	221.4	285.8	374.1
40.0	48.0	63.2	94.7	125.0	160.0	225.6
28.0	31.7	39.1	58.5	83.8	114.5	165.3
12.2	14.3	18.8	34.5	56.7	54.6	52.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)