

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: P146032

Luminaire Tested: **LDRL-SLR-E02-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146032
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-SLR-E02-E-7060
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5527.5 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

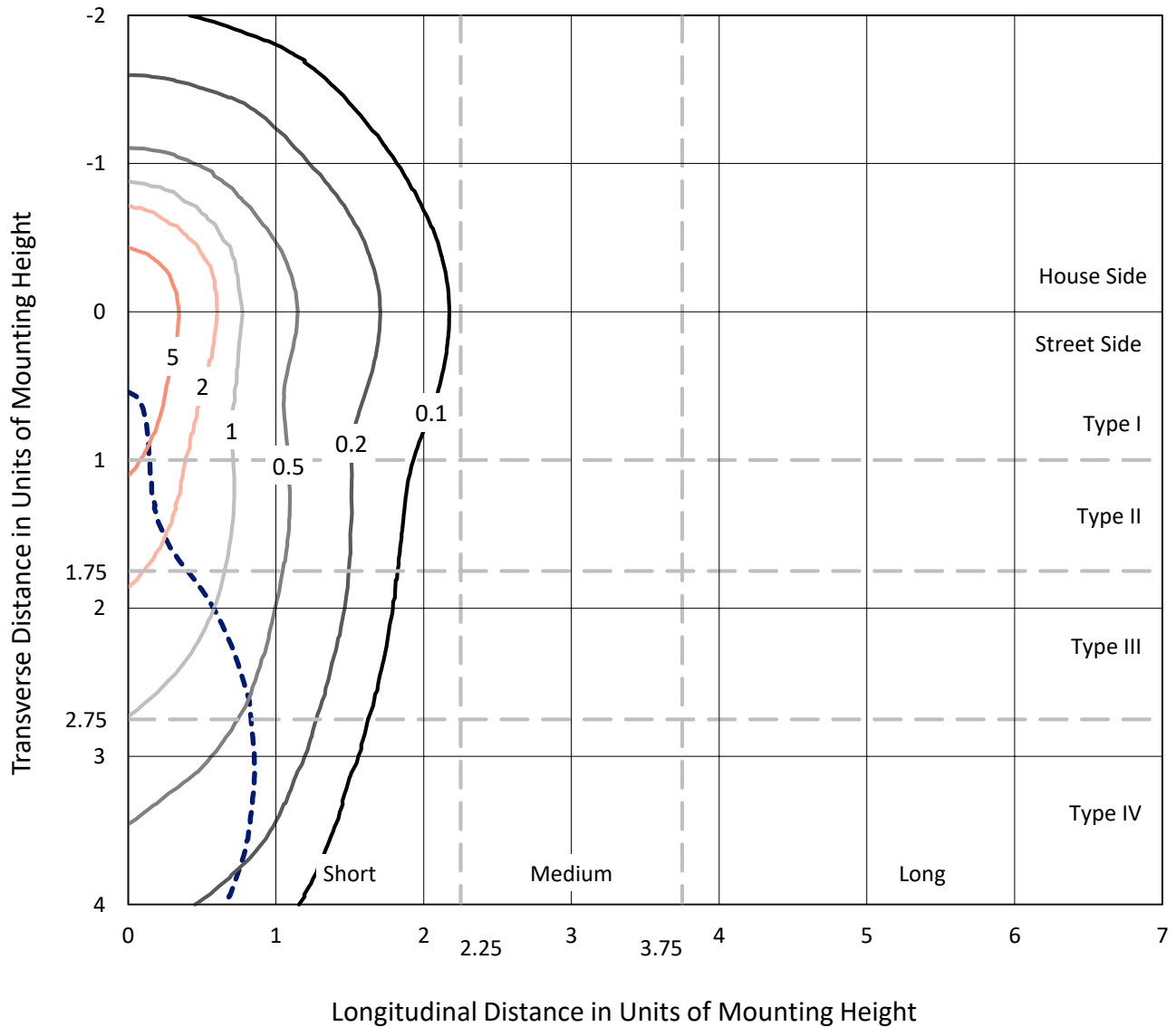


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Iso-Footcandle Lines of Horizontal Illumination

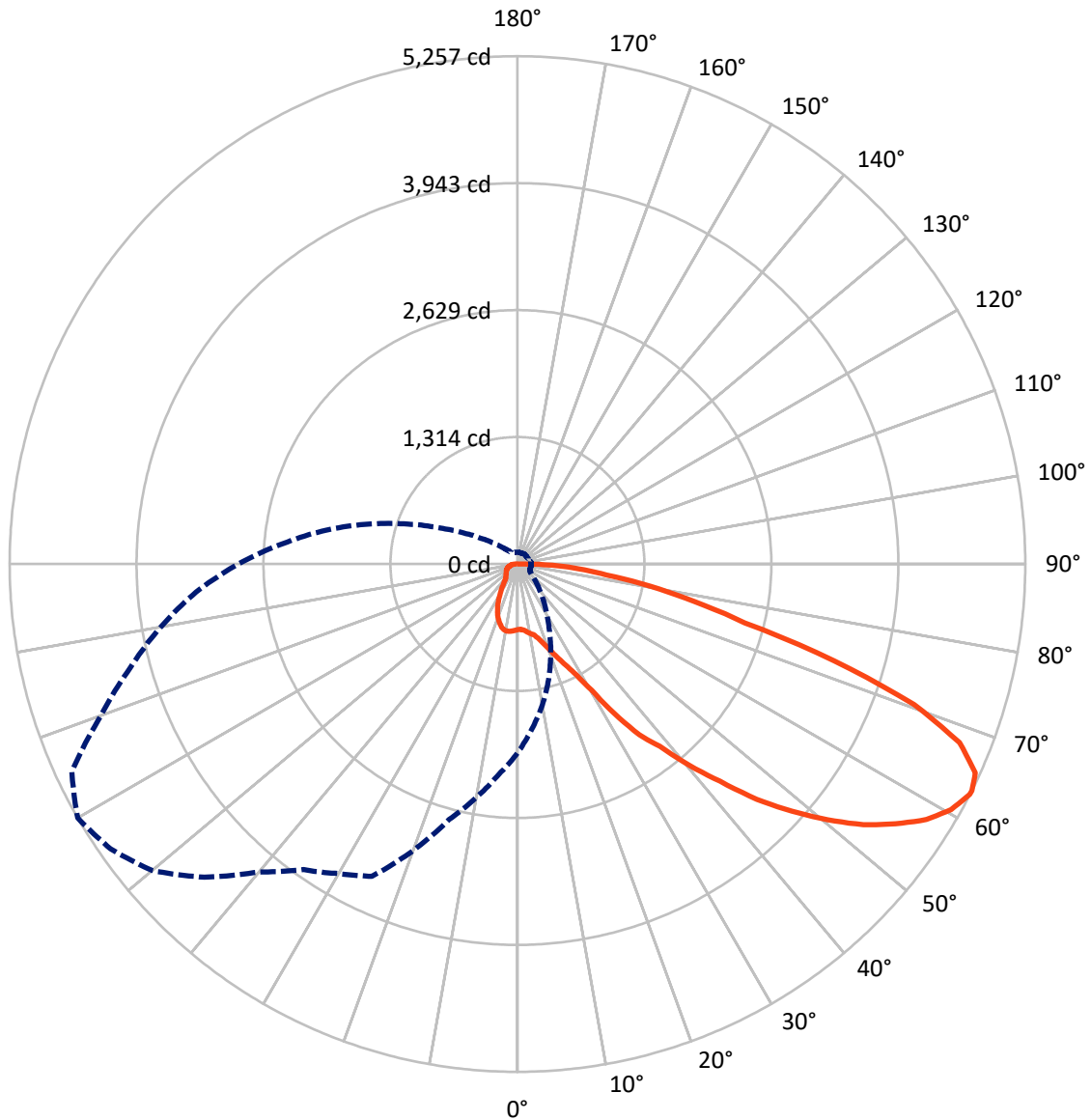
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1157.1	0.0	1157.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4370.4	0.0	4370.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	5527.5	0.0	5527.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.2
10°-20°	208.1	3.8
20°-30°	368.0	6.7
30°-40°	581.0	10.5
40°-50°	854.3	15.5
50°-60°	1125.3	20.4
60°-70°	1254.3	22.7
70°-80°	824.1	14.9
80°-90°	245.8	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°	5527.5	100.0
0°-180°	5527.5	100.0

Coefficient of Utilization



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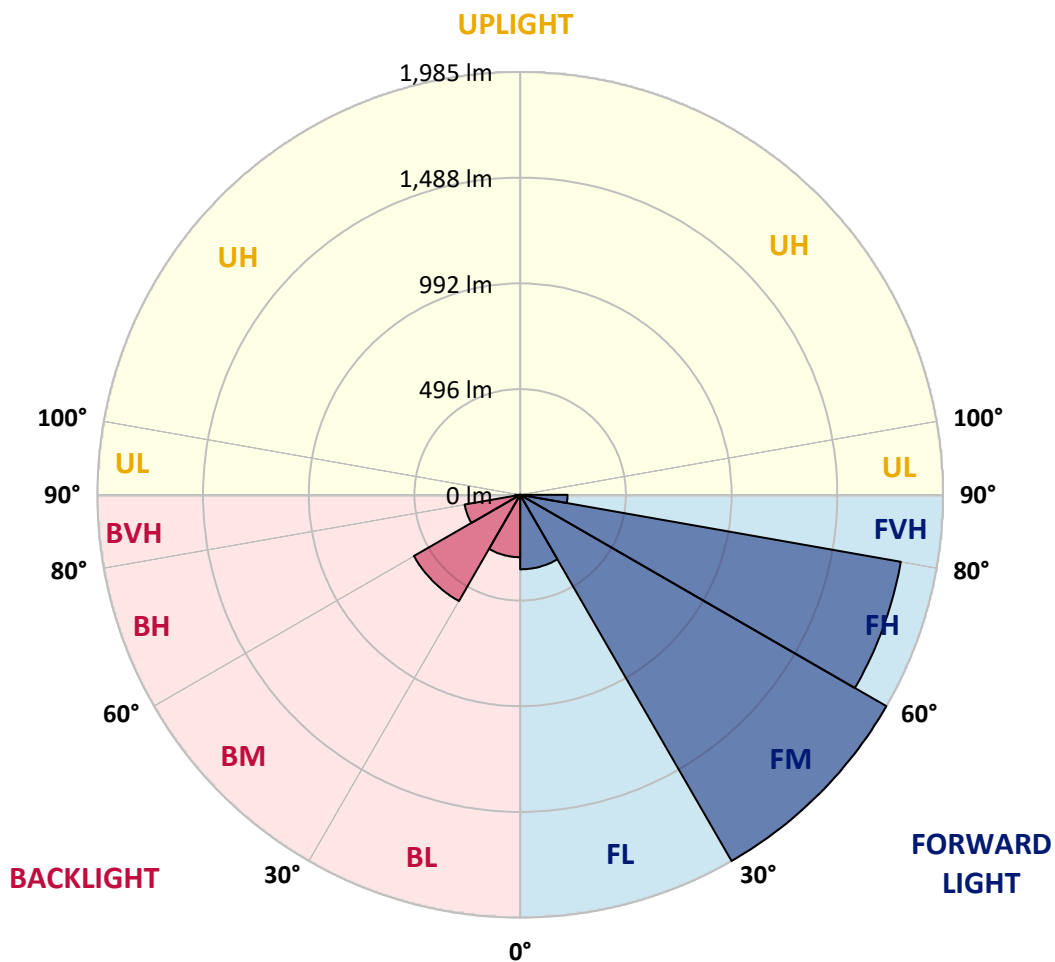
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.8	6.3			
FM	(30°-60°)	1984.5	35.9			
FH	(60°-80°)	1814.0	32.8			G2/5000
FVH	(80°-90°)	222.1	4.0			G2/225
BL	(0°-30°)	292.9	5.3	B1/500		
BM	(30°-60°)	576.1	10.4	B1/1000		
BH	(60°-80°)	264.4	4.8	B1/500		G1/500
BVH	(80°-90°)	23.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9
2.5°	678.1	679.3	679.3	678.1	679.3	678.9	678.9	680.1	680.5	682.6	681.3
5°	674.8	675.2	675.6	674.8	675.2	675.2	676.0	677.2	677.6	680.1	678.9
7.5°	671.1	671.9	670.3	670.7	671.9	673.5	673.5	675.2	678.1	679.3	678.9
10°	673.1	672.3	671.1	670.7	671.5	671.9	672.7	675.6	678.1	679.3	681.3
12.5°	689.1	686.7	685.4	685.0	685.4	684.6	687.5	688.3	689.1	690.8	690.0
15°	719.5	716.2	714.2	712.1	716.6	714.6	714.6	712.1	708.0	701.9	694.1
17.5°	761.8	758.1	756.4	755.6	756.0	752.3	745.0	733.0	718.7	702.3	687.1
20°	822.5	828.3	825.8	814.7	810.6	794.2	770.8	746.2	721.1	694.9	669.8
22.5°	927.6	924.3	913.2	885.7	861.1	824.2	782.3	742.5	705.6	667.4	634.5
25°	1049.5	1022.0	990.8	936.6	880.0	819.2	758.9	711.7	662.5	620.6	581.2
27.5°	1198.9	1139.4	1059.8	971.5	887.0	806.1	734.7	672.3	616.1	571.3	527.4
30°	1345.8	1246.5	1135.7	1018.7	904.6	795.4	701.0	628.8	563.9	506.5	462.2
32.5°	1447.6	1327.4	1189.5	1045.0	906.3	778.2	664.1	577.9	504.8	447.0	393.6
35°	1531.4	1381.1	1208.3	1040.9	880.0	738.0	611.1	515.5	437.9	378.0	331.2
37.5°	1588.8	1408.6	1207.1	1017.1	833.2	673.9	550.4	453.1	380.9	325.1	282.0
40°	1629.0	1417.3	1191.1	976.4	779.4	612.0	485.6	396.9	333.7	290.2	259.0
42.5°	1648.3	1411.5	1167.3	937.9	726.1	561.9	436.7	359.1	307.8	275.0	252.0
45°	1656.5	1397.6	1140.6	900.1	682.6	518.8	411.7	347.6	307.4	279.1	254.1
47.5°	1654.5	1382.4	1116.8	868.9	656.7	507.3	416.6	363.2	322.6	287.3	255.3
50°	1648.7	1368.4	1101.6	857.4	656.3	524.5	444.1	389.5	340.3	294.7	254.1
52.5°	1648.3	1367.2	1109.8	871.0	680.1	563.5	485.6	419.9	357.5	302.9	254.5
55°	1658.2	1389.3	1144.7	907.5	737.6	618.1	532.3	452.3	376.8	308.7	253.2
57.5°	1698.0	1444.8	1210.8	989.2	811.4	684.6	577.5	476.5	384.2	307.0	247.5
60°	1785.4	1542.0	1312.6	1104.5	906.3	745.4	604.2	484.7	380.9	297.2	235.2
62.5°	1921.7	1682.8	1452.1	1217.8	990.4	781.9	610.3	478.2	367.8	280.7	220.0
63°	1956.6	1715.2	1480.5	1241.2	1004.8	785.6	609.9	475.7	364.1	276.6	216.3
65°	2102.3	1854.4	1594.2	1318.3	1043.3	793.0	600.5	460.1	347.6	257.3	199.5
67.5°	2321.5	2007.9	1707.0	1390.2	1064.7	779.8	570.9	421.5	305.4	223.7	174.4
70°	2467.6	2109.7	1774.3	1413.6	1039.7	719.9	503.2	353.4	249.5	184.3	149.0
72.5°	2471.3	2018.6	1683.2	1292.1	897.6	593.9	394.0	267.2	194.1	149.8	128.5
75°	2207.4	1705.8	1375.8	1061.0	690.8	419.9	277.0	195.0	149.0	123.5	111.2
77.5°	1640.9	1244.5	992.9	713.8	448.6	272.1	192.9	144.5	118.2	102.2	93.2
80°	1018.3	777.8	602.5	426.9	268.8	181.0	141.2	114.9	99.3	85.4	78.0
82.5°	614.0	435.5	340.3	257.8	172.0	130.5	108.8	96.9	84.1	71.8	66.1
85°	449.8	311.5	228.2	159.3	106.3	86.2	76.3	73.9	65.3	55.4	52.1
87.5°	141.6	148.6	154.3	94.0	51.3	39.0	33.2	39.0	37.4	26.3	28.7
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°	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9
2.5°	683.4	685.0	683.8	683.8	683.0	682.6	685.4	684.6	685.4	685.0	685.8
5°	680.9	682.2	681.3	682.2	681.3	681.3	685.0	685.0	686.7	687.5	689.5
7.5°	681.7	682.2	681.7	683.0	682.2	681.3	683.4	684.6	687.5	690.0	692.0
10°	684.6	685.8	685.4	685.4	683.0	681.3	682.6	683.4	686.3	687.5	690.0
12.5°	691.6	690.0	686.7	684.6	678.9	675.6	673.9	673.1	675.2	676.8	678.1
15°	690.0	680.9	673.5	667.4	658.8	653.4	649.3	648.9	649.3	649.7	651.0
17.5°	673.1	660.8	646.0	638.2	628.4	622.6	619.8	617.7	617.3	618.1	620.2
20°	648.9	630.8	614.4	600.9	590.2	581.2	583.2	578.7	580.8	582.0	585.7
22.5°	612.0	586.9	568.1	551.6	538.9	529.5	529.5	525.4	526.2	529.9	534.8
25°	552.0	528.6	501.6	490.1	475.7	469.1	467.9	467.1	470.4	474.9	477.8
27.5°	497.9	465.9	439.2	424.0	408.8	410.4	402.2	407.2	410.9	414.5	417.8
30°	424.8	398.5	374.3	359.1	341.1	341.5	342.7	343.5	346.8	351.7	358.3
32.5°	354.6	326.3	303.7	287.3	276.6	273.4	268.8	276.2	280.3	285.3	291.8
35°	296.7	267.2	248.3	234.0	227.8	223.3	222.0	221.2	224.9	227.4	232.7
37.5°	255.3	235.2	221.2	211.0	205.2	200.3	199.1	198.2	197.8	197.0	200.3
40°	238.5	222.5	210.6	201.1	195.8	192.9	191.7	190.0	188.4	186.3	185.9
42.5°	233.5	216.3	202.3	192.9	188.8	188.4	188.4	187.6	185.9	183.1	181.0
45°	231.5	210.6	194.5	187.2	184.3	184.7	184.7	184.7	183.5	180.6	177.3
47.5°	227.8	203.6	187.2	181.0	179.8	180.6	181.4	181.4	180.6	178.1	174.4
50°	220.8	192.9	175.7	169.9	169.5	169.9	169.9	170.7	169.9	167.9	164.6
52.5°	215.5	184.7	167.0	162.5	162.5	162.1	161.7	161.7	161.3	159.7	157.2
55°	210.6	179.4	163.4	159.7	160.5	160.5	159.7	159.3	157.6	155.6	153.1
57.5°	203.6	173.6	159.7	157.2	158.0	157.6	157.2	156.8	155.1	152.7	149.4
60°	191.3	163.4	152.3	150.6	151.9	152.3	153.9	154.3	153.5	150.6	146.1
62.5°	177.7	150.6	142.4	141.2	142.4	143.7	144.9	144.1	144.1	141.2	137.1
63°	173.2	148.6	139.6	139.6	140.8	142.0	142.8	142.0	142.4	139.1	135.0
65°	162.9	141.2	134.2	134.6	135.9	136.7	137.1	137.1	136.7	134.2	130.5
67.5°	145.7	130.5	126.4	128.5	130.1	130.5	130.5	131.3	130.5	128.9	125.6
70°	130.1	120.3	117.4	119.8	120.7	121.1	121.1	121.1	120.3	118.6	115.7
72.5°	118.2	113.3	112.9	112.5	112.9	111.6	111.6	110.8	108.8	107.5	105.1
75°	105.1	102.6	103.0	102.6	101.8	101.4	99.3	98.5	96.0	94.4	91.1
77.5°	90.3	90.7	90.3	90.7	91.5	91.9	89.1	87.0	85.0	83.3	81.7
80°	75.1	75.9	75.1	75.9	76.3	76.3	73.5	70.2	68.5	69.8	70.2
82.5°	66.9	66.9	63.6	64.4	63.6	62.4	60.3	59.1	57.9	57.1	59.1
85°	52.9	53.4	54.2	53.4	51.7	50.5	48.4	46.8	45.6	46.8	49.7
87.5°	31.6	34.1	32.8	32.8	32.4	32.4	30.8	30.0	28.7	33.7	36.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9
2.5°	685.4	686.7	687.1	686.7	687.1	687.9	684.6	687.9	688.3	685.8	686.7
5°	691.2	693.2	696.1	696.1	698.2	699.4	697.8	702.3	703.1	702.7	704.7
7.5°	695.3	698.2	701.9	703.9	707.6	709.2	710.5	714.6	715.4	717.0	718.7
10°	694.9	699.0	702.3	708.0	712.5	715.8	718.3	722.8	724.4	726.9	728.1
12.5°	683.0	687.5	693.6	701.9	710.1	715.4	722.0	728.5	731.0	734.3	736.3
15°	656.3	660.0	668.6	679.3	690.4	703.9	713.3	723.6	728.1	731.4	734.3
17.5°	621.4	624.7	632.5	641.9	656.7	669.8	684.2	699.8	707.6	711.3	712.5
20°	589.0	593.9	596.0	607.0	612.0	625.1	637.4	654.7	664.5	671.1	675.2
22.5°	538.1	540.6	551.2	555.7	559.4	567.6	582.8	598.0	611.1	621.8	625.1
25°	481.9	488.4	494.2	497.9	506.5	506.9	519.2	529.9	546.3	556.6	564.8
27.5°	419.9	429.7	433.0	435.5	442.0	449.8	454.4	465.0	474.5	486.4	501.1
30°	357.5	366.9	373.5	377.2	383.4	390.7	394.0	401.0	413.3	426.4	437.9
32.5°	299.2	309.1	312.3	324.2	325.9	332.9	335.3	346.4	353.4	364.5	378.0
35°	242.2	252.4	262.3	268.8	276.2	275.8	282.4	292.6	298.8	310.3	319.3
37.5°	203.2	209.3	216.3	223.7	231.9	238.1	244.2	248.7	253.7	261.5	269.7
40°	185.9	187.6	190.4	195.0	200.7	205.2	209.7	213.4	217.1	223.3	228.6
42.5°	179.0	177.7	177.7	176.9	179.0	181.4	185.1	186.3	192.1	195.8	197.8
45°	174.0	171.2	169.1	166.6	165.8	166.6	168.7	171.6	175.3	176.5	176.5
47.5°	171.2	166.6	163.4	159.7	157.6	157.6	158.8	160.9	162.9	163.4	162.9
50°	161.3	156.8	152.7	149.4	147.8	147.8	148.2	151.0	151.5	150.6	151.0
52.5°	153.9	149.4	145.3	142.4	140.4	140.8	142.0	143.2	144.5	143.7	142.8
55°	149.4	144.1	140.4	137.1	134.6	135.4	136.7	138.3	140.4	139.1	137.9
57.5°	145.3	140.8	136.3	133.0	130.1	130.9	132.2	134.6	137.1	134.6	133.0
60°	141.6	137.1	132.6	129.3	126.0	126.8	128.5	130.9	133.0	129.7	127.6
62.5°	132.6	128.5	125.2	123.5	121.5	122.7	124.0	126.8	126.0	122.7	120.3
63°	130.9	126.8	124.0	122.3	120.7	122.3	122.7	125.6	124.4	121.1	119.0
65°	126.0	122.7	119.8	118.2	116.6	117.4	117.4	118.6	117.0	114.5	112.9
67.5°	121.5	117.8	114.9	111.6	110.0	109.2	108.8	108.4	107.1	105.9	105.5
70°	111.6	109.2	106.7	103.8	101.4	99.7	98.9	98.1	97.3	96.9	96.5
72.5°	101.0	98.9	96.5	94.8	92.8	91.5	89.5	89.1	88.2	87.4	87.0
75°	89.5	87.0	86.2	84.6	83.3	82.5	80.9	80.4	79.6	78.4	78.0
77.5°	79.2	78.4	77.2	76.8	74.7	73.5	72.6	72.2	71.4	70.6	69.8
80°	70.6	70.2	69.4	69.0	67.7	66.1	65.3	65.7	64.4	64.0	62.8
82.5°	63.6	64.0	64.0	62.8	61.6	59.5	58.7	59.9	59.1	57.5	55.8
85°	54.2	53.8	54.2	53.8	51.3	49.3	48.4	49.3	48.8	46.4	46.0
87.5°	38.6	38.2	37.4	39.8	36.5	29.6	30.4	34.5	33.2	32.0	31.2
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9
2.5°	688.3	687.1	687.9	688.3	687.1	690.0	687.1	687.5	688.3	685.8	685.4
5°	706.4	706.4	709.7	710.1	709.7	713.3	712.9	713.3	712.5	712.1	710.5
7.5°	721.1	722.8	725.3	728.9	730.2	733.0	733.9	734.3	735.9	737.6	736.7
10°	731.8	736.3	738.4	742.1	745.8	747.8	749.9	753.2	754.4	755.6	754.0
12.5°	739.2	744.5	747.8	752.3	756.9	760.1	763.8	767.9	772.0	773.3	771.2
15°	735.5	741.7	746.6	751.5	758.5	764.7	771.6	779.0	784.4	786.4	783.9
17.5°	712.5	718.7	726.1	733.5	740.8	752.3	762.2	774.5	783.1	789.3	790.1
20°	680.9	684.6	695.3	702.7	714.6	728.1	742.9	757.3	767.1	778.2	784.8
22.5°	634.1	641.5	653.4	666.1	678.1	695.7	711.3	730.2	747.0	762.2	776.6
25°	577.1	587.3	601.3	618.9	634.5	653.4	676.0	696.9	725.3	749.1	779.8
27.5°	515.5	534.4	553.7	572.2	589.4	610.7	634.1	657.5	690.0	728.1	768.3
30°	457.2	472.8	497.0	518.4	538.5	564.8	589.0	614.8	645.6	690.8	736.3
32.5°	396.5	409.2	428.1	454.4	477.8	508.5	529.9	560.7	596.4	644.0	695.7
35°	333.7	351.3	366.5	384.6	402.2	433.0	465.0	499.1	540.1	591.0	647.7
37.5°	278.3	289.4	296.7	315.2	330.8	357.1	394.4	435.5	480.6	532.3	593.1
40°	232.3	239.3	247.5	259.8	272.9	296.7	331.2	377.2	424.4	476.1	536.9
42.5°	200.7	205.2	206.0	215.5	227.8	251.2	278.7	321.0	373.1	427.3	488.0
45°	179.0	179.0	178.5	182.6	192.5	212.6	237.6	275.4	325.1	381.7	444.9
47.5°	163.8	165.0	164.6	166.2	172.8	187.6	210.1	242.2	287.3	342.7	406.3
50°	152.3	153.9	154.3	154.7	157.2	169.5	188.8	214.7	254.9	307.8	371.9
52.5°	143.2	143.7	143.7	143.2	144.1	151.0	167.0	190.9	228.2	275.8	337.4
55°	138.3	138.7	138.7	138.7	138.7	143.2	154.7	174.0	204.0	248.7	304.5
57.5°	132.6	132.6	133.4	133.4	133.4	135.0	143.2	159.3	182.2	217.9	267.6
60°	127.6	128.9	130.5	130.9	130.5	130.5	134.6	145.3	160.5	186.3	228.2
62.5°	120.3	121.9	124.0	124.8	125.2	124.4	126.4	130.9	140.0	153.5	181.8
63°	119.0	120.7	122.3	123.1	123.5	122.7	124.4	128.1	135.4	146.5	172.0
65°	113.7	115.7	116.2	116.6	116.2	115.7	115.3	115.3	117.4	121.5	135.0
67.5°	106.3	107.5	107.5	108.4	106.3	105.5	104.7	103.8	102.6	103.0	107.9
70°	97.7	98.5	98.1	97.7	96.9	95.6	94.8	93.6	91.1	90.3	92.8
72.5°	87.8	88.7	88.7	88.7	87.0	86.2	85.4	84.6	83.7	84.6	85.4
75°	78.8	78.8	79.6	79.2	78.0	77.2	76.8	76.3	76.3	76.3	75.9
77.5°	70.2	69.8	69.8	68.5	67.7	67.3	68.1	68.5	68.1	67.3	66.9
80°	62.8	60.7	58.7	57.1	56.6	57.5	58.3	60.7	59.5	59.5	58.7
82.5°	53.4	48.8	46.0	46.4	45.1	45.6	46.4	49.3	48.4	48.8	50.5
85°	42.7	38.6	34.1	34.9	34.9	34.1	36.1	36.9	37.8	39.8	38.2
87.5°	30.0	26.3	21.8	18.9	19.7	20.5	21.3	20.5	18.1	18.9	18.5
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9
2.5°	684.6	685.0	685.0	682.2	681.3	682.2	681.7	681.7	679.3	679.7	678.9
5°	709.7	710.5	708.0	706.0	703.1	702.7	702.3	700.6	699.0	695.7	694.1
7.5°	736.3	732.6	731.8	728.1	726.9	723.6	721.1	718.7	716.6	715.0	713.8
10°	753.2	750.3	749.5	742.9	740.8	736.7	734.3	731.4	728.9	726.5	726.1
12.5°	768.3	763.4	760.5	751.5	747.4	742.9	740.8	738.4	737.6	737.2	738.8
15°	780.3	773.3	767.9	759.7	756.4	754.0	754.4	753.2	758.1	761.0	766.3
17.5°	788.0	785.2	783.9	777.8	779.8	779.8	785.6	788.5	797.5	804.9	812.3
20°	792.2	797.5	807.8	809.8	814.7	820.1	828.7	833.6	843.0	853.7	864.0
22.5°	795.8	818.4	839.4	855.0	866.0	878.3	884.5	894.8	901.3	909.1	924.7
25°	816.4	854.1	891.1	911.2	937.4	955.1	969.1	979.3	990.8	997.4	1015.0
27.5°	810.6	858.6	907.9	944.8	985.9	1019.1	1048.7	1068.4	1083.2	1107.0	1121.7
30°	784.4	840.2	899.7	952.2	1009.7	1063.9	1115.2	1161.1	1200.5	1232.6	1254.3
32.5°	747.0	811.0	880.8	945.7	1019.1	1091.4	1165.2	1235.4	1302.3	1355.3	1388.5
35°	705.1	774.1	851.3	928.0	1016.3	1110.7	1210.4	1304.8	1401.7	1486.2	1552.7
37.5°	654.2	728.9	813.5	902.6	1003.9	1117.2	1242.8	1371.3	1494.8	1622.9	1716.5
40°	600.9	673.9	761.8	863.6	980.5	1113.9	1267.9	1434.5	1613.4	1778.4	1920.9
42.5°	555.3	626.7	718.7	819.2	945.2	1101.6	1284.7	1491.1	1711.5	1925.4	2114.6
45°	510.6	586.9	679.7	786.0	923.5	1096.7	1306.4	1540.4	1792.0	2045.6	2287.0
47.5°	475.3	550.8	644.4	758.5	905.8	1093.8	1327.0	1586.4	1857.7	2135.1	2421.2
50°	441.6	513.9	605.0	725.3	887.4	1089.3	1339.3	1622.9	1909.0	2205.3	2516.4
52.5°	407.2	482.3	570.9	687.5	863.2	1080.3	1343.0	1651.6	1961.9	2272.6	2605.5
55°	372.3	447.4	536.0	656.7	830.3	1062.6	1340.1	1672.6	2017.3	2343.6	2686.8
57.5°	329.6	403.5	496.2	617.7	788.0	1027.3	1326.1	1681.6	2051.8	2410.1	2768.4
60°	281.6	351.3	439.2	563.1	736.3	976.4	1294.9	1668.9	2067.4	2454.0	2855.0
62.5°	221.2	282.0	362.8	486.0	661.2	903.0	1226.8	1612.6	2029.6	2443.0	2892.4
63°	207.7	266.4	349.7	465.4	639.1	877.5	1206.7	1593.3	2012.8	2432.7	2887.9
65°	158.4	201.9	270.9	374.3	540.1	760.1	1100.8	1484.2	1906.9	2330.5	2816.9
67.5°	117.0	139.6	181.8	251.2	380.1	591.4	902.2	1281.8	1682.0	2080.1	2575.1
70°	96.9	105.5	125.2	160.9	235.2	392.4	637.4	975.6	1352.0	1694.7	2141.7
72.5°	86.6	92.8	101.8	117.8	148.6	230.3	414.5	633.3	941.6	1237.9	1615.5
75°	77.6	81.7	89.1	98.5	112.5	144.1	219.2	375.6	575.4	834.0	1108.2
77.5°	68.1	72.2	79.6	87.0	96.0	109.6	135.9	213.8	344.4	486.8	680.1
80°	59.1	61.2	67.3	78.0	84.6	95.6	104.3	133.8	187.6	254.9	362.4
82.5°	48.8	49.3	53.4	61.6	69.8	73.9	76.3	84.1	107.9	134.6	177.7
85°	34.9	33.2	35.7	39.0	45.6	41.9	44.7	47.2	57.5	69.4	127.2
87.5°	15.6	12.3	14.4	16.0	14.4	9.9	14.4	11.9	14.8	29.1	32.8
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	678.9	0°
2.5°	679.7	677.2	677.2	676.8	677.2	676.4	674.8	674.8	676.0	675.6	675.6	2.5°
5°	694.1	690.8	690.0	689.5	689.5	687.5	685.0	683.8	683.4	681.7	680.5	5°
7.5°	712.9	710.9	712.1	709.7	708.8	708.4	705.1	702.7	699.0	697.3	691.2	7.5°
10°	728.5	727.3	730.6	730.2	730.6	730.6	726.1	723.6	718.3	715.4	707.6	10°
12.5°	742.1	742.9	749.1	749.1	750.3	751.9	749.5	744.1	742.1	739.2	731.0	12.5°
15°	776.6	779.8	784.4	791.7	793.8	794.2	796.3	791.7	786.4	779.0	769.2	15°
17.5°	823.3	829.9	845.1	855.8	857.8	859.9	858.6	857.8	848.0	841.8	831.6	17.5°
20°	882.0	898.0	919.4	934.2	940.7	941.6	949.8	944.0	935.0	922.7	907.9	20°
22.5°	947.7	974.4	1001.5	1023.2	1036.0	1041.7	1050.3	1042.1	1030.2	1022.8	1003.1	22.5°
25°	1037.6	1066.7	1097.9	1115.2	1147.6	1157.0	1162.0	1159.5	1147.2	1152.5	1134.5	25°
27.5°	1160.7	1185.8	1229.7	1251.4	1281.8	1299.5	1295.8	1316.3	1320.0	1332.7	1334.8	27.5°
30°	1294.9	1336.4	1395.5	1439.4	1485.8	1515.8	1539.6	1557.6	1578.6	1613.9	1635.2	30°
32.5°	1439.8	1499.8	1575.3	1668.4	1767.0	1847.4	1938.1	1953.7	2000.5	1987.0	1977.9	32.5°
35°	1601.1	1676.7	1773.5	1895.8	2039.1	2172.1	2259.5	2303.4	2321.9	2332.1	2269.7	35°
37.5°	1817.0	1919.2	2027.2	2160.6	2270.2	2394.5	2495.1	2604.3	2654.3	2630.5	2511.1	37.5°
40°	2056.3	2151.9	2298.1	2407.2	2536.5	2741.3	2877.6	3009.0	3050.0	2970.8	2783.6	40°
42.5°	2296.4	2427.8	2586.2	2741.3	2889.9	3075.4	3256.0	3385.7	3430.9	3295.4	3073.4	42.5°
45°	2510.3	2678.5	2864.9	3024.1	3231.8	3474.4	3695.6	3799.9	3791.7	3574.1	3324.2	45°
47.5°	2696.6	2915.0	3125.1	3339.8	3549.1	3822.9	4042.0	4161.9	4076.9	3848.3	3565.1	47.5°
50°	2850.5	3114.4	3368.1	3614.8	3871.7	4162.7	4374.1	4484.9	4355.6	4066.3	3749.8	50°
52.5°	2967.5	3294.6	3586.9	3862.7	4169.7	4484.1	4672.1	4739.0	4537.4	4234.9	3888.1	52.5°
55°	3077.9	3447.7	3771.1	4084.3	4466.4	4748.4	4924.5	4912.2	4652.0	4308.4	3974.7	55°
57.5°	3161.2	3578.2	3922.6	4279.3	4690.9	4992.2	5094.0	5012.7	4699.6	4330.2	3999.8	57.5°
60°	3266.3	3680.0	4057.2	4455.3	4904.4	5159.3	5172.8	5027.1	4686.0	4289.1	3964.5	60°
62.5°	3333.6	3743.6	4143.0	4576.0	5066.9	5253.2	5156.4	4965.1	4608.0	4187.7	3883.6	62.5°
63°	3340.2	3749.8	4150.0	4587.9	5089.9	5257.4	5141.2	4937.2	4585.0	4159.8	3862.3	63°
65°	3310.6	3732.2	4118.0	4566.6	5095.6	5208.9	5030.0	4822.7	4458.2	4017.4	3736.7	65°
67.5°	3104.2	3542.5	3910.7	4331.4	4874.0	4936.8	4757.4	4532.1	4189.8	3710.4	3462.1	67.5°
70°	2734.4	3151.0	3412.0	3802.7	4280.1	4355.2	4194.7	4020.3	3716.1	3315.6	3109.5	70°
72.5°	2202.8	2612.1	2768.8	3068.1	3447.3	3430.9	3318.0	3296.3	3136.2	2800.0	2676.1	72.5°
75°	1646.7	2036.2	2102.3	2224.2	2436.0	2430.6	2456.9	2550.5	2630.5	2431.9	2273.0	75°
77.5°	1086.0	1473.5	1514.5	1656.5	1715.2	1876.1	2064.9	2300.1	2416.7	2335.4	2140.5	77.5°
80°	600.9	1008.0	999.8	1055.2	1159.1	1393.0	1679.1	2028.4	2261.5	2203.3	1989.8	80°
82.5°	312.3	637.0	627.6	637.4	733.9	930.5	1148.0	1433.7	1674.6	1679.9	1608.1	82.5°
85°	232.3	457.2	484.3	506.5	570.5	639.1	678.9	770.4	902.6	1025.7	1069.6	85°
87.5°	85.4	274.6	341.9	367.3	369.0	360.4	293.5	323.0	293.9	347.6	485.6	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°
678.9	678.9	678.9	678.9	678.9	678.9	678.9
676.4	676.4	676.0	676.8	677.2	678.5	678.1
679.3	678.1	676.8	676.0	675.2	675.6	674.8
686.7	682.6	679.3	676.4	673.9	673.5	671.1
703.1	695.7	689.5	685.0	680.1	677.6	673.1
724.0	715.8	708.0	701.4	695.7	692.4	689.1
760.5	748.6	739.2	732.2	726.5	722.8	719.5
814.7	800.0	785.6	772.0	770.4	761.8	761.8
889.4	869.3	850.8	839.4	834.0	822.5	822.5
992.9	973.2	945.7	931.7	932.9	923.1	927.6
1126.7	1110.2	1081.9	1076.2	1076.2	1065.5	1049.5
1327.4	1321.6	1290.4	1298.2	1281.8	1242.0	1198.9
1625.4	1625.4	1565.0	1521.5	1483.7	1421.8	1345.8
1923.7	1884.8	1792.4	1718.5	1640.1	1545.3	1447.6
2175.8	2071.9	1978.3	1888.0	1770.2	1668.4	1531.4
2388.4	2289.9	2182.7	2045.2	1906.9	1764.9	1588.8
2651.9	2532.0	2371.1	2198.3	2028.4	1833.0	1629.0
2892.8	2742.6	2539.4	2320.6	2104.3	1886.4	1648.3
3119.4	2925.6	2674.9	2412.2	2165.9	1919.2	1656.5
3332.8	3073.0	2781.2	2477.4	2208.2	1936.9	1654.5
3473.6	3180.9	2848.1	2516.8	2233.6	1943.0	1648.7
3561.8	3247.0	2887.5	2538.6	2246.4	1944.3	1648.3
3611.5	3284.4	2908.8	2553.8	2260.3	1951.7	1658.2
3650.1	3313.9	2932.6	2579.6	2293.6	1986.1	1698.0
3686.6	3391.5	2994.6	2627.2	2351.4	2050.6	1785.4
3701.8	3538.8	3120.6	2715.1	2432.3	2154.0	1921.7
3700.5	3566.7	3157.1	2739.3	2453.6	2181.5	1956.6
3655.8	3655.4	3323.4	2855.0	2553.0	2308.7	2102.3
3523.2	3699.7	3507.2	3007.7	2707.3	2518.5	2321.5
3313.5	3646.0	3532.3	3047.9	2816.9	2711.0	2467.6
2952.3	3389.0	3297.9	2876.4	2779.5	2748.7	2471.3
2388.0	2724.5	2685.5	2457.3	2493.0	2556.2	2207.4
1923.7	1913.1	1907.3	1824.4	1976.3	2104.7	1640.9
1606.9	1323.7	1229.3	1197.3	1447.6	1546.1	1018.3
1502.2	1189.1	953.9	913.6	1084.8	1137.3	614.0
1148.0	1154.6	999.4	856.6	843.9	772.5	449.8
561.9	571.3	603.8	551.2	472.8	398.5	141.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)