

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: P146028

Luminaire Tested: **LDRL-SLR-E02-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146028  
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-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4546.5 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

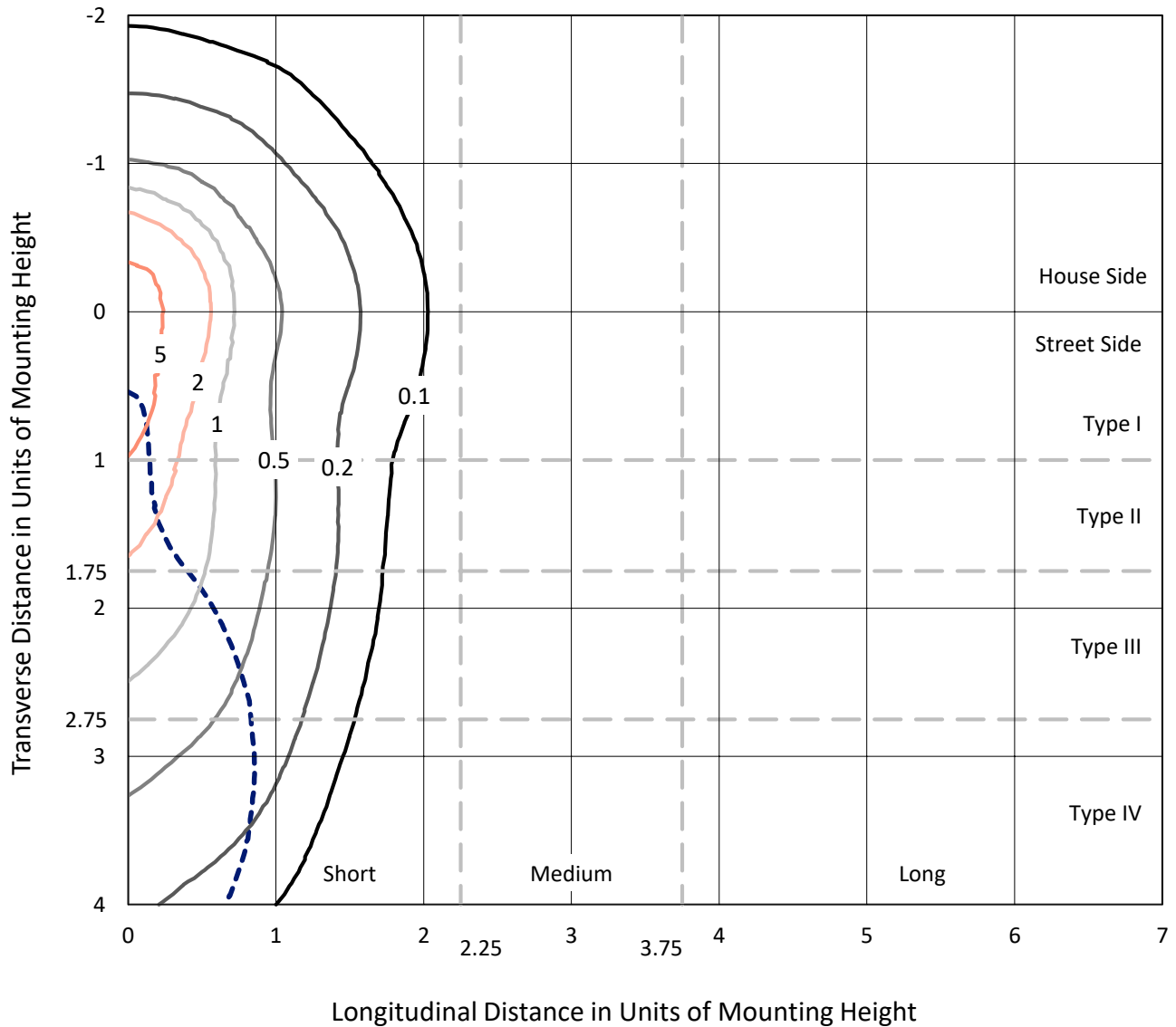


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### Iso-Footcandle Lines of Horizontal Illumination

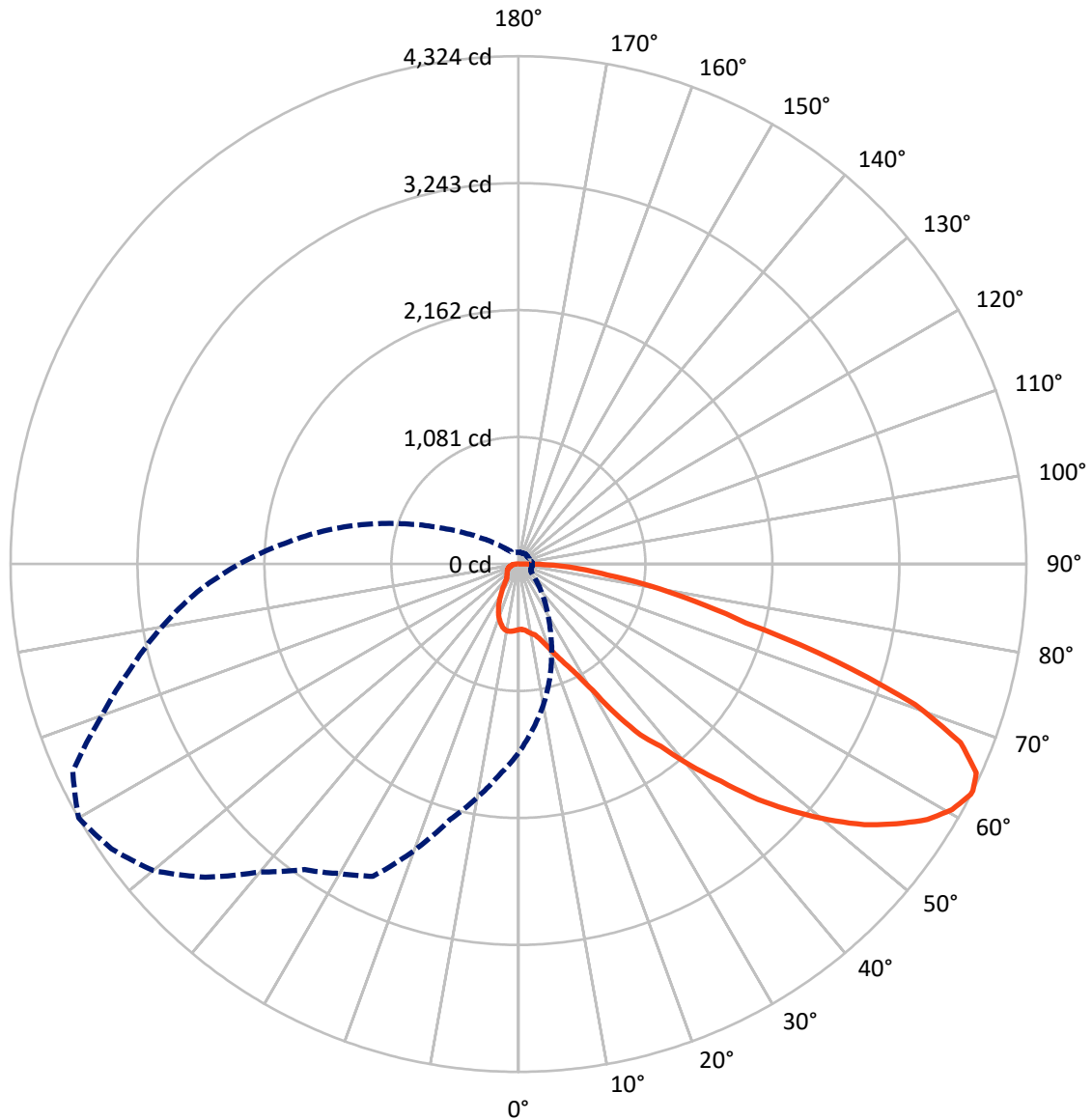
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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
<b>House Side</b>	Lumens	951.7	0.0	951.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	3594.8	0.0	3594.8
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	4546.5	0.0	4546.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	1.2
10°-20°	171.2	3.8
20°-30°	302.7	6.7
30°-40°	477.8	10.5
40°-50°	702.7	15.5
50°-60°	925.6	20.4
60°-70°	1031.7	22.7
70°-80°	677.8	14.9
80°-90°	202.1	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°	4546.5	100.0
0°-180°	4546.5	100.0



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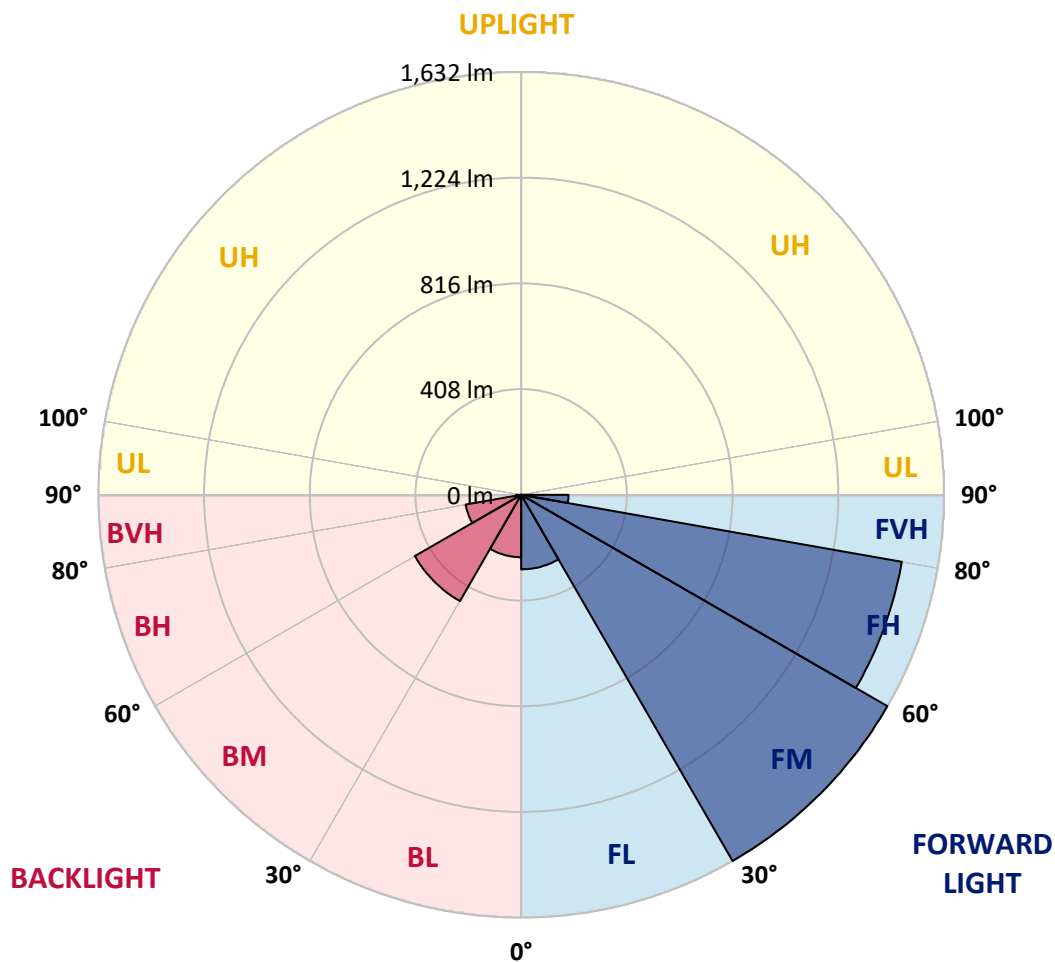
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.8	6.3			
FM	(30°-60°)	1632.3	35.9			
FH	(60°-80°)	1492.0	32.8			G1/1800
FVH	(80°-90°)	182.7	4.0			G2/225
BL	(0°-30°)	240.9	5.3	B1/500		
BM	(30°-60°)	473.8	10.4	B1/1000		
BH	(60°-80°)	217.5	4.8	B1/500		G1/500
BVH	(80°-90°)	19.4	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°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	557.7	558.7	558.7	557.7	558.7	558.4	558.4	559.4	559.7	561.4	560.4
5°	555.0	555.3	555.7	555.0	555.3	555.3	556.0	557.0	557.4	559.4	558.4
7.5°	552.0	552.6	551.3	551.6	552.6	554.0	554.0	555.3	557.7	558.7	558.4
10°	553.7	553.0	552.0	551.6	552.3	552.6	553.3	555.7	557.7	558.7	560.4
12.5°	566.8	564.8	563.8	563.4	563.8	563.1	565.5	566.1	566.8	568.2	567.5
15°	591.8	589.1	587.4	585.7	589.4	587.8	587.8	585.7	582.4	577.3	570.9
17.5°	626.6	623.5	622.2	621.5	621.9	618.8	612.7	602.9	591.1	577.6	565.1
20°	676.5	681.3	679.2	670.1	666.8	653.2	634.0	613.8	593.2	571.6	551.0
22.5°	763.0	760.3	751.2	728.5	708.3	677.9	643.5	610.7	580.3	548.9	521.9
25°	863.2	840.6	815.0	770.4	723.8	673.8	624.2	585.4	544.9	510.4	478.0
27.5°	986.1	937.2	871.7	799.1	729.5	663.0	604.3	553.0	506.7	469.9	433.8
30°	1107.0	1025.3	934.1	837.9	744.1	654.3	576.6	517.2	463.9	416.6	380.1
32.5°	1190.7	1091.8	978.4	859.5	745.4	640.1	546.2	475.3	415.2	367.6	323.8
35°	1259.6	1136.0	993.9	856.1	723.8	607.0	502.7	424.0	360.2	310.9	272.4
37.5°	1306.8	1158.6	992.9	836.6	685.3	554.3	452.7	372.7	313.3	267.4	231.9
40°	1339.9	1165.7	979.7	803.1	641.1	503.4	399.4	326.5	274.5	238.7	213.0
42.5°	1355.8	1161.0	960.1	771.4	597.2	462.2	359.2	295.4	253.2	226.2	207.3
45°	1362.5	1149.5	938.2	740.3	561.4	426.7	338.6	285.9	252.9	229.6	209.0
47.5°	1360.9	1137.0	918.6	714.7	540.2	417.3	342.7	298.8	265.4	236.3	210.0
50°	1356.1	1125.5	906.1	705.2	539.8	431.4	365.3	320.4	279.9	242.4	209.0
52.5°	1355.8	1124.5	912.9	716.4	559.4	463.5	399.4	345.4	294.0	249.1	209.3
55°	1363.9	1142.8	941.6	746.4	606.7	508.4	437.9	372.0	309.9	253.9	208.3
57.5°	1396.6	1188.3	995.9	813.6	667.4	563.1	475.0	391.9	316.0	252.5	203.6
60°	1468.5	1268.3	1079.6	908.5	745.4	613.1	496.9	398.7	313.3	244.4	193.4
62.5°	1580.6	1384.1	1194.4	1001.6	814.6	643.1	502.0	393.3	302.5	230.9	181.0
63°	1609.3	1410.8	1217.7	1020.9	826.4	646.2	501.7	391.3	299.4	227.5	177.9
65°	1729.2	1525.3	1311.2	1084.4	858.2	652.2	493.9	378.4	285.9	211.7	164.1
67.5°	1909.4	1651.5	1404.1	1143.4	875.7	641.4	469.6	346.7	251.2	184.0	143.5
70°	2029.6	1735.2	1459.4	1162.7	855.1	592.1	413.9	290.7	205.3	151.6	122.5
72.5°	2032.7	1660.3	1384.5	1062.8	738.3	488.5	324.1	219.8	159.7	123.2	105.7
75°	1815.6	1403.1	1131.6	872.7	568.2	345.4	227.9	160.4	122.5	101.6	91.5
77.5°	1349.7	1023.6	816.6	587.1	369.0	223.8	158.7	118.8	97.2	84.1	76.6
80°	837.6	639.7	495.6	351.1	221.1	148.9	116.1	94.5	81.7	70.2	64.1
82.5°	505.0	358.2	279.9	212.0	141.5	107.4	89.5	79.7	69.2	59.1	54.4
85°	370.0	256.2	187.7	131.0	87.4	70.9	62.8	60.8	53.7	45.6	42.9
87.5°	116.5	122.2	126.9	77.3	42.2	32.1	27.3	32.1	30.7	21.6	23.6
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°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	562.1	563.4	562.4	562.4	561.8	561.4	563.8	563.1	563.8	563.4	564.1
5°	560.1	561.1	560.4	561.1	560.4	560.4	563.4	563.4	564.8	565.5	567.2
7.5°	560.7	561.1	560.7	561.8	561.1	560.4	562.1	563.1	565.5	567.5	569.2
10°	563.1	564.1	563.8	563.8	561.8	560.4	561.4	562.1	564.5	565.5	567.5
12.5°	568.8	567.5	564.8	563.1	558.4	555.7	554.3	553.7	555.3	556.7	557.7
15°	567.5	560.1	554.0	548.9	541.8	537.5	534.1	533.7	534.1	534.4	535.4
17.5°	553.7	543.5	531.4	525.0	516.9	512.1	509.8	508.1	507.7	508.4	510.1
20°	533.7	518.9	505.4	494.2	485.5	478.0	479.7	476.0	477.7	478.7	481.8
22.5°	503.4	482.8	467.2	453.7	443.3	435.5	435.5	432.1	432.8	435.8	439.9
25°	454.1	434.8	412.5	403.1	391.3	385.9	384.9	384.2	386.9	390.6	393.0
27.5°	409.5	383.2	361.2	348.7	336.2	337.6	330.8	334.9	337.9	341.0	343.7
30°	349.4	327.8	307.9	295.4	280.5	280.9	281.9	282.6	285.3	289.3	294.7
32.5°	291.7	268.4	249.8	236.3	227.5	224.8	221.1	227.2	230.6	234.6	240.0
35°	244.1	219.8	204.2	192.4	187.4	183.7	182.6	182.0	185.0	187.0	191.4
37.5°	210.0	193.4	182.0	173.5	168.8	164.7	163.7	163.1	162.7	162.0	164.7
40°	196.1	183.0	173.2	165.4	161.0	158.7	157.7	156.3	155.0	153.3	152.9
42.5°	192.1	177.9	166.4	158.7	155.3	155.0	155.0	154.3	152.9	150.6	148.9
45°	190.4	173.2	160.0	153.9	151.6	151.9	151.9	151.9	150.9	148.5	145.8
47.5°	187.4	167.4	153.9	148.9	147.9	148.5	149.2	149.2	148.5	146.5	143.5
50°	181.6	158.7	144.5	139.8	139.4	139.8	139.8	140.4	139.8	138.1	135.4
52.5°	177.2	151.9	137.4	133.7	133.7	133.4	133.0	133.0	132.7	131.3	129.3
55°	173.2	147.5	134.4	131.3	132.0	132.0	131.3	131.0	129.6	127.9	125.9
57.5°	167.4	142.8	131.3	129.3	130.0	129.6	129.3	129.0	127.6	125.6	122.9
60°	157.3	134.4	125.2	123.9	124.9	125.2	126.6	126.9	126.3	123.9	120.2
62.5°	146.2	123.9	117.1	116.1	117.1	118.2	119.2	118.5	118.5	116.1	112.8
63°	142.5	122.2	114.8	114.8	115.8	116.8	117.5	116.8	117.1	114.4	111.1
65°	134.0	116.1	110.4	110.7	111.7	112.4	112.8	112.8	112.4	110.4	107.4
67.5°	119.8	107.4	104.0	105.7	107.0	107.4	107.4	108.0	107.4	106.0	103.3
70°	107.0	98.9	96.6	98.6	99.3	99.6	99.6	99.6	98.9	97.6	95.2
72.5°	97.2	93.2	92.8	92.5	92.8	91.8	91.8	91.2	89.5	88.5	86.4
75°	86.4	84.4	84.7	84.4	83.7	83.4	81.7	81.0	79.0	77.6	74.9
77.5°	74.3	74.6	74.3	74.6	75.3	75.6	73.3	71.6	69.9	68.5	67.2
80°	61.8	62.5	61.8	62.5	62.8	62.8	60.4	57.7	56.4	57.4	57.7
82.5°	55.0	55.0	52.3	53.0	52.3	51.3	49.6	48.6	47.6	46.9	48.6
85°	43.5	43.9	44.6	43.9	42.5	41.5	39.8	38.5	37.5	38.5	40.8
87.5°	26.0	28.0	27.0	27.0	26.7	26.7	25.3	24.6	23.6	27.7	29.7
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	563.8	564.8	565.1	564.8	565.1	565.8	563.1	565.8	566.1	564.1	564.8
5°	568.5	570.2	572.6	572.6	574.3	575.3	573.9	577.6	578.3	578.0	579.7
7.5°	571.9	574.3	577.3	579.0	582.0	583.4	584.4	587.8	588.4	589.8	591.1
10°	571.6	574.9	577.6	582.4	586.1	588.8	590.8	594.5	595.9	597.9	598.9
12.5°	561.8	565.5	570.5	577.3	584.0	588.4	593.8	599.2	601.3	604.0	605.6
15°	539.8	542.9	549.9	558.7	567.8	579.0	586.7	595.2	598.9	601.6	604.0
17.5°	511.1	513.8	520.2	528.0	540.2	551.0	562.8	575.6	582.0	585.1	586.1
20°	484.5	488.5	490.2	499.3	503.4	514.2	524.3	538.5	546.6	552.0	555.3
22.5°	442.6	444.6	453.4	457.1	460.1	466.9	479.4	491.9	502.7	511.5	514.2
25°	396.3	401.7	406.5	409.5	416.6	416.9	427.1	435.8	449.3	457.8	464.5
27.5°	345.4	353.5	356.2	358.2	363.6	370.0	373.7	382.5	390.3	400.1	412.2
30°	294.0	301.8	307.2	310.3	315.3	321.4	324.1	329.8	340.0	350.8	360.2
32.5°	246.1	254.2	256.9	266.7	268.1	273.8	275.8	284.9	290.7	299.8	310.9
35°	199.2	207.6	215.7	221.1	227.2	226.9	232.3	240.7	245.8	255.2	262.6
37.5°	167.1	172.2	177.9	184.0	190.7	195.8	200.9	204.6	208.6	215.0	221.8
40°	152.9	154.3	156.6	160.4	165.1	168.8	172.5	175.6	178.6	183.7	188.0
42.5°	147.2	146.2	146.2	145.5	147.2	149.2	152.3	153.3	158.0	161.0	162.7
45°	143.1	140.8	139.1	137.1	136.4	137.1	138.8	141.1	144.2	145.2	145.2
47.5°	140.8	137.1	134.4	131.3	129.6	129.6	130.6	132.3	134.0	134.4	134.0
50°	132.7	129.0	125.6	122.9	121.5	121.5	121.9	124.2	124.6	123.9	124.2
52.5°	126.6	122.9	119.5	117.1	115.5	115.8	116.8	117.8	118.8	118.2	117.5
55°	122.9	118.5	115.5	112.8	110.7	111.4	112.4	113.8	115.5	114.4	113.4
57.5°	119.5	115.8	112.1	109.4	107.0	107.7	108.7	110.7	112.8	110.7	109.4
60°	116.5	112.8	109.0	106.3	103.6	104.3	105.7	107.7	109.4	106.7	105.0
62.5°	109.0	105.7	103.0	101.6	99.9	100.9	102.0	104.3	103.6	100.9	98.9
63°	107.7	104.3	102.0	100.6	99.3	100.6	100.9	103.3	102.3	99.6	97.9
65°	103.6	100.9	98.6	97.2	95.9	96.6	96.6	97.6	96.2	94.2	92.8
67.5°	99.9	96.9	94.5	91.8	90.5	89.8	89.5	89.1	88.1	87.1	86.8
70°	91.8	89.8	87.8	85.4	83.4	82.0	81.4	80.7	80.0	79.7	79.3
72.5°	83.0	81.4	79.3	78.0	76.3	75.3	73.6	73.3	72.6	71.9	71.6
75°	73.6	71.6	70.9	69.5	68.5	67.9	66.5	66.2	65.5	64.5	64.1
77.5°	65.2	64.5	63.5	63.1	61.4	60.4	59.8	59.4	58.7	58.1	57.4
80°	58.1	57.7	57.1	56.7	55.7	54.4	53.7	54.0	53.0	52.7	51.7
82.5°	52.3	52.7	52.7	51.7	50.6	49.0	48.3	49.3	48.6	47.3	45.9
85°	44.6	44.2	44.6	44.2	42.2	40.5	39.8	40.5	40.2	38.1	37.8
87.5°	31.7	31.4	30.7	32.7	30.0	24.3	25.0	28.4	27.3	26.3	25.7
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	566.1	565.1	565.8	566.1	565.1	567.5	565.1	565.5	566.1	564.1	563.8
5°	581.0	581.0	583.7	584.0	583.7	586.7	586.4	586.7	586.1	585.7	584.4
7.5°	593.2	594.5	596.5	599.6	600.6	602.9	603.6	604.0	605.3	606.7	606.0
10°	601.9	605.6	607.3	610.4	613.4	615.1	616.8	619.5	620.5	621.5	620.2
12.5°	608.0	612.4	615.1	618.8	622.5	625.2	628.3	631.6	635.0	636.0	634.3
15°	605.0	610.0	614.1	618.1	623.9	628.9	634.7	640.8	645.1	646.8	644.8
17.5°	586.1	591.1	597.2	603.3	609.4	618.8	626.9	637.0	644.1	649.2	649.9
20°	560.1	563.1	571.9	578.0	587.8	598.9	611.0	622.9	631.0	640.1	645.5
22.5°	521.6	527.7	537.5	547.9	557.7	572.2	585.1	600.6	614.4	626.9	638.7
25°	474.7	483.1	494.6	509.1	521.9	537.5	556.0	573.2	596.5	616.1	641.4
27.5°	424.0	439.6	455.4	470.6	484.8	502.3	521.6	540.8	567.5	598.9	632.0
30°	376.1	388.9	408.8	426.4	442.9	464.5	484.5	505.7	531.0	568.2	605.6
32.5°	326.1	336.6	352.1	373.7	393.0	418.3	435.8	461.2	490.5	529.7	572.2
35°	274.5	289.0	301.5	316.3	330.8	356.2	382.5	410.5	444.3	486.1	532.7
37.5°	228.9	238.0	244.1	259.3	272.1	293.7	324.4	358.2	395.3	437.9	487.8
40°	191.1	196.8	203.6	213.7	224.5	244.1	272.4	310.3	349.1	391.6	441.6
42.5°	165.1	168.8	169.5	177.2	187.4	206.6	229.2	264.0	306.9	351.4	401.4
45°	147.2	147.2	146.9	150.2	158.3	174.9	195.5	226.5	267.4	314.0	366.0
47.5°	134.7	135.7	135.4	136.7	142.1	154.3	172.8	199.2	236.3	281.9	334.2
50°	125.2	126.6	126.9	127.3	129.3	139.4	155.3	176.6	209.6	253.2	305.9
52.5°	117.8	118.2	118.2	117.8	118.5	124.2	137.4	157.0	187.7	226.9	277.5
55°	113.8	114.1	114.1	114.1	114.1	117.8	127.3	143.1	167.8	204.6	250.5
57.5°	109.0	109.0	109.7	109.7	109.7	111.1	117.8	131.0	149.9	179.3	220.1
60°	105.0	106.0	107.4	107.7	107.4	107.4	110.7	119.5	132.0	153.3	187.7
62.5°	98.9	100.3	102.0	102.6	103.0	102.3	104.0	107.7	115.1	126.3	149.6
63°	97.9	99.3	100.6	101.3	101.6	100.9	102.3	105.3	111.4	120.5	141.5
65°	93.5	95.2	95.5	95.9	95.5	95.2	94.9	94.9	96.6	99.9	111.1
67.5°	87.4	88.5	88.5	89.1	87.4	86.8	86.1	85.4	84.4	84.7	88.8
70°	80.3	81.0	80.7	80.3	79.7	78.7	78.0	77.0	74.9	74.3	76.3
72.5°	72.2	72.9	72.9	72.9	71.6	70.9	70.2	69.5	68.9	69.5	70.2
75°	64.8	64.8	65.5	65.2	64.1	63.5	63.1	62.8	62.8	62.8	62.5
77.5°	57.7	57.4	57.4	56.4	55.7	55.4	56.0	56.4	56.0	55.4	55.0
80°	51.7	50.0	48.3	46.9	46.6	47.3	47.9	50.0	49.0	49.0	48.3
82.5°	43.9	40.2	37.8	38.1	37.1	37.5	38.1	40.5	39.8	40.2	41.5
85°	35.1	31.7	28.0	28.7	28.7	28.0	29.7	30.4	31.1	32.7	31.4
87.5°	24.6	21.6	17.9	15.5	16.2	16.9	17.6	16.9	14.9	15.5	15.2
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°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	563.1	563.4	563.4	561.1	560.4	561.1	560.7	560.7	558.7	559.1	558.4
5°	583.7	584.4	582.4	580.7	578.3	578.0	577.6	576.3	574.9	572.2	570.9
7.5°	605.6	602.6	601.9	598.9	597.9	595.2	593.2	591.1	589.4	588.1	587.1
10°	619.5	617.1	616.5	611.0	609.4	606.0	604.0	601.6	599.6	597.5	597.2
12.5°	632.0	627.9	625.6	618.1	614.8	611.0	609.4	607.3	606.7	606.3	607.7
15°	641.8	636.0	631.6	624.9	622.2	620.2	620.5	619.5	623.5	625.9	630.3
17.5°	648.2	645.8	644.8	639.7	641.4	641.4	646.2	648.5	655.9	662.0	668.1
20°	651.6	655.9	664.4	666.1	670.1	674.5	681.6	685.7	693.4	702.2	710.6
22.5°	654.6	673.2	690.4	703.2	712.3	722.5	727.5	736.0	741.4	747.8	760.6
25°	671.5	702.5	732.9	749.5	771.1	785.6	797.1	805.5	815.0	820.4	834.9
27.5°	666.8	706.3	746.8	777.1	810.9	838.3	862.6	878.8	890.9	910.5	922.7
30°	645.1	691.1	740.0	783.2	830.5	875.0	917.2	955.1	987.5	1013.8	1031.7
32.5°	614.4	667.1	724.5	777.8	838.3	897.7	958.4	1016.2	1071.2	1114.7	1142.1
35°	580.0	636.7	700.2	763.3	835.9	913.5	995.6	1073.2	1152.9	1222.4	1277.1
37.5°	538.1	599.6	669.1	742.4	825.8	918.9	1022.2	1127.9	1229.5	1334.9	1411.8
40°	494.2	554.3	626.6	710.3	806.5	916.2	1042.8	1179.9	1327.1	1462.8	1580.0
42.5°	456.8	515.5	591.1	673.8	777.5	906.1	1056.7	1226.5	1407.8	1583.7	1739.3
45°	420.0	482.8	559.1	646.5	759.6	902.1	1074.6	1267.0	1473.9	1682.6	1881.1
47.5°	390.9	453.1	530.0	623.9	745.1	899.7	1091.4	1304.8	1528.0	1756.2	1991.5
50°	363.3	422.7	497.6	596.5	729.9	896.0	1101.6	1334.9	1570.2	1813.9	2069.8
52.5°	334.9	396.7	469.6	565.5	710.0	888.6	1104.6	1358.5	1613.7	1869.3	2143.1
55°	306.2	368.0	440.9	540.2	683.0	874.0	1102.3	1375.7	1659.3	1927.7	2209.9
57.5°	271.1	331.9	408.2	508.1	648.2	845.0	1090.8	1383.1	1687.6	1982.4	2277.1
60°	231.6	289.0	361.2	463.2	605.6	803.1	1065.1	1372.7	1700.5	2018.5	2348.3
62.5°	182.0	231.9	298.4	399.7	543.9	742.7	1009.1	1326.4	1669.4	2009.4	2379.0
63°	170.8	219.1	287.6	382.8	525.6	721.8	992.5	1310.5	1655.6	2000.9	2375.3
65°	130.3	166.1	222.8	307.9	444.3	625.2	905.4	1220.7	1568.5	1916.9	2316.9
67.5°	96.2	114.8	149.6	206.6	312.6	486.5	742.0	1054.3	1383.5	1710.9	2118.1
70°	79.7	86.8	103.0	132.3	193.4	322.7	524.3	802.5	1112.0	1393.9	1761.6
72.5°	71.2	76.3	83.7	96.9	122.2	189.4	341.0	520.9	774.4	1018.2	1328.8
75°	63.8	67.2	73.3	81.0	92.5	118.5	180.3	308.9	473.3	686.0	911.5
77.5°	56.0	59.4	65.5	71.6	79.0	90.1	111.7	175.9	283.2	400.4	559.4
80°	48.6	50.3	55.4	64.1	69.5	78.7	85.7	110.1	154.3	209.6	298.1
82.5°	40.2	40.5	43.9	50.6	57.4	60.8	62.8	69.2	88.8	110.7	146.2
85°	28.7	27.3	29.4	32.1	37.5	34.4	36.8	38.8	47.3	57.1	104.7
87.5°	12.8	10.1	11.8	13.2	11.8	8.1	11.8	9.8	12.2	24.0	27.0
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°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	0°
2.5°	559.1	557.0	557.0	556.7	557.0	556.4	555.0	555.0	556.0	555.7	555.7	2.5°
5°	570.9	568.2	567.5	567.2	567.2	565.5	563.4	562.4	562.1	560.7	559.7	5°
7.5°	586.4	584.7	585.7	583.7	583.0	582.7	580.0	578.0	574.9	573.6	568.5	7.5°
10°	599.2	598.2	600.9	600.6	600.9	600.9	597.2	595.2	590.8	588.4	582.0	10°
12.5°	610.4	611.0	616.1	616.1	617.1	618.5	616.5	612.1	610.4	608.0	601.3	12.5°
15°	638.7	641.4	645.1	651.2	652.9	653.2	654.9	651.2	646.8	640.8	632.7	15°
17.5°	677.2	682.6	695.1	703.9	705.6	707.3	706.3	705.6	697.5	692.4	684.0	17.5°
20°	725.5	738.7	756.2	768.4	773.8	774.4	781.2	776.5	769.0	758.9	746.8	20°
22.5°	779.5	801.5	823.7	841.6	852.1	856.8	863.9	857.2	847.4	841.3	825.1	22.5°
25°	853.4	877.4	903.1	917.2	943.9	951.7	955.7	953.7	943.6	948.0	933.1	25°
27.5°	954.7	975.3	1011.4	1029.3	1054.3	1068.8	1065.8	1082.7	1085.7	1096.2	1097.9	27.5°
30°	1065.1	1099.2	1147.8	1184.0	1222.1	1246.7	1266.3	1281.2	1298.4	1327.4	1345.0	30°
32.5°	1184.3	1233.6	1295.7	1372.3	1453.4	1519.5	1594.1	1607.0	1645.4	1634.3	1626.9	32.5°
35°	1317.0	1379.1	1458.8	1559.4	1677.2	1786.6	1858.5	1894.6	1909.8	1918.2	1866.9	35°
37.5°	1494.5	1578.6	1667.4	1777.1	1867.2	1969.5	2052.2	2142.0	2183.2	2163.7	2065.4	37.5°
40°	1691.4	1770.0	1890.2	1980.0	2086.3	2254.8	2366.9	2474.9	2508.7	2443.5	2289.6	40°
42.5°	1888.9	1996.9	2127.2	2254.8	2377.0	2529.6	2678.2	2784.8	2822.0	2710.6	2527.9	42.5°
45°	2064.7	2203.2	2356.4	2487.4	2658.2	2857.8	3039.7	3125.5	3118.7	2939.8	2734.2	45°
47.5°	2218.0	2397.6	2570.5	2747.0	2919.2	3144.4	3324.6	3423.2	3353.3	3165.3	2932.4	47.5°
50°	2344.6	2561.7	2770.3	2973.2	3184.5	3423.9	3597.8	3688.9	3582.6	3344.6	3084.3	50°
52.5°	2440.8	2709.9	2950.3	3177.1	3429.6	3688.2	3842.9	3897.9	3732.1	3483.3	3198.1	52.5°
55°	2531.6	2835.8	3101.8	3359.4	3673.7	3905.7	4050.5	4040.4	3826.3	3543.7	3269.3	55°
57.5°	2600.2	2943.2	3226.4	3519.8	3858.4	4106.2	4189.9	4123.1	3865.5	3561.6	3289.9	57.5°
60°	2686.6	3026.9	3337.1	3664.6	4033.9	4243.6	4254.7	4134.9	3854.3	3527.9	3260.8	60°
62.5°	2742.0	3079.2	3407.7	3763.9	4167.6	4320.9	4241.2	4083.9	3790.2	3444.5	3194.3	62.5°
63°	2747.4	3084.3	3413.4	3773.7	4186.5	4324.3	4228.7	4060.9	3771.3	3421.5	3176.8	63°
65°	2723.1	3069.8	3387.1	3756.1	4191.3	4284.4	4137.2	3966.8	3667.0	3304.4	3073.5	65°
67.5°	2553.2	2913.8	3216.6	3562.7	4009.0	4060.6	3913.1	3727.7	3446.2	3051.9	2847.6	67.5°
70°	2249.1	2591.7	2806.4	3127.8	3520.5	3582.2	3450.2	3306.8	3056.6	2727.1	2557.6	70°
72.5°	1811.9	2148.5	2277.4	2523.5	2835.5	2822.0	2729.1	2711.2	2579.6	2303.1	2201.1	72.5°
75°	1354.4	1674.8	1729.2	1829.4	2003.6	1999.2	2020.9	2097.8	2163.7	2000.3	1869.6	75°
77.5°	893.3	1212.0	1245.7	1362.5	1410.8	1543.2	1698.4	1891.9	1987.8	1920.9	1760.6	77.5°
80°	494.2	829.1	822.4	868.0	953.4	1145.8	1381.1	1668.4	1860.2	1812.2	1636.7	80°
82.5°	256.9	523.9	516.2	524.3	603.6	765.3	944.3	1179.2	1377.4	1381.8	1322.7	82.5°
85°	191.1	376.1	398.4	416.6	469.3	525.6	558.4	633.7	742.4	843.7	879.8	85°
87.5°	70.2	225.9	281.2	302.1	303.5	296.4	241.4	265.7	241.7	285.9	399.4	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°
558.4	558.4	558.4	558.4	558.4	558.4	558.4
556.4	556.4	556.0	556.7	557.0	558.0	557.7
558.7	557.7	556.7	556.0	555.3	555.7	555.0
564.8	561.4	558.7	556.4	554.3	554.0	552.0
578.3	572.2	567.2	563.4	559.4	557.4	553.7
595.5	588.8	582.4	577.0	572.2	569.5	566.8
625.6	615.8	608.0	602.3	597.5	594.5	591.8
670.1	658.0	646.2	635.0	633.7	626.6	626.6
731.6	715.0	699.8	690.4	686.0	676.5	676.5
816.6	800.4	777.8	766.3	767.4	759.3	763.0
926.7	913.2	889.9	885.2	885.2	876.4	863.2
1091.8	1087.1	1061.4	1067.8	1054.3	1021.6	986.1
1336.9	1336.9	1287.3	1251.5	1220.4	1169.4	1107.0
1582.3	1550.2	1474.3	1413.5	1349.0	1271.1	1190.7
1789.6	1704.2	1627.2	1552.9	1456.1	1372.3	1259.6
1964.5	1883.5	1795.3	1682.2	1568.5	1451.7	1306.8
2181.2	2082.6	1950.3	1808.2	1668.4	1507.7	1339.9
2379.4	2255.8	2088.7	1908.8	1730.9	1551.6	1355.8
2565.7	2406.4	2200.1	1984.1	1781.5	1578.6	1362.5
2741.3	2527.6	2287.6	2037.7	1816.3	1593.1	1360.9
2857.1	2616.4	2342.6	2070.1	1837.2	1598.2	1356.1
2929.7	2670.7	2375.0	2088.0	1847.7	1599.2	1355.8
2970.5	2701.4	2392.5	2100.5	1859.1	1605.3	1363.9
3002.2	2725.8	2412.1	2121.8	1886.5	1633.6	1396.6
3032.3	2789.6	2463.1	2161.0	1934.1	1686.6	1468.5
3044.8	2910.8	2566.7	2233.2	2000.6	1771.7	1580.6
3043.8	2933.7	2596.8	2253.1	2018.2	1794.3	1609.3
3007.0	3006.6	2733.5	2348.3	2099.8	1899.0	1729.2
2897.9	3043.1	2884.8	2473.9	2226.8	2071.5	1909.4
2725.4	2998.9	2905.4	2507.0	2316.9	2229.8	2029.6
2428.3	2787.5	2712.6	2365.9	2286.2	2260.9	2032.7
1964.1	2241.0	2208.9	2021.2	2050.6	2102.6	1815.6
1582.3	1573.5	1568.8	1500.6	1625.5	1731.2	1349.7
1321.7	1088.7	1011.1	984.8	1190.7	1271.7	837.6
1235.6	978.0	784.6	751.5	892.3	935.5	505.0
944.3	949.7	822.0	704.6	694.1	635.4	370.0
462.2	469.9	496.6	453.4	388.9	327.8	116.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)