

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: P146021

Luminaire Tested: **LDRL-SLR-E01-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146021
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-E01-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2763.8 lumens
Efficiency: N/A
Efficacy: 111.9 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 - G2

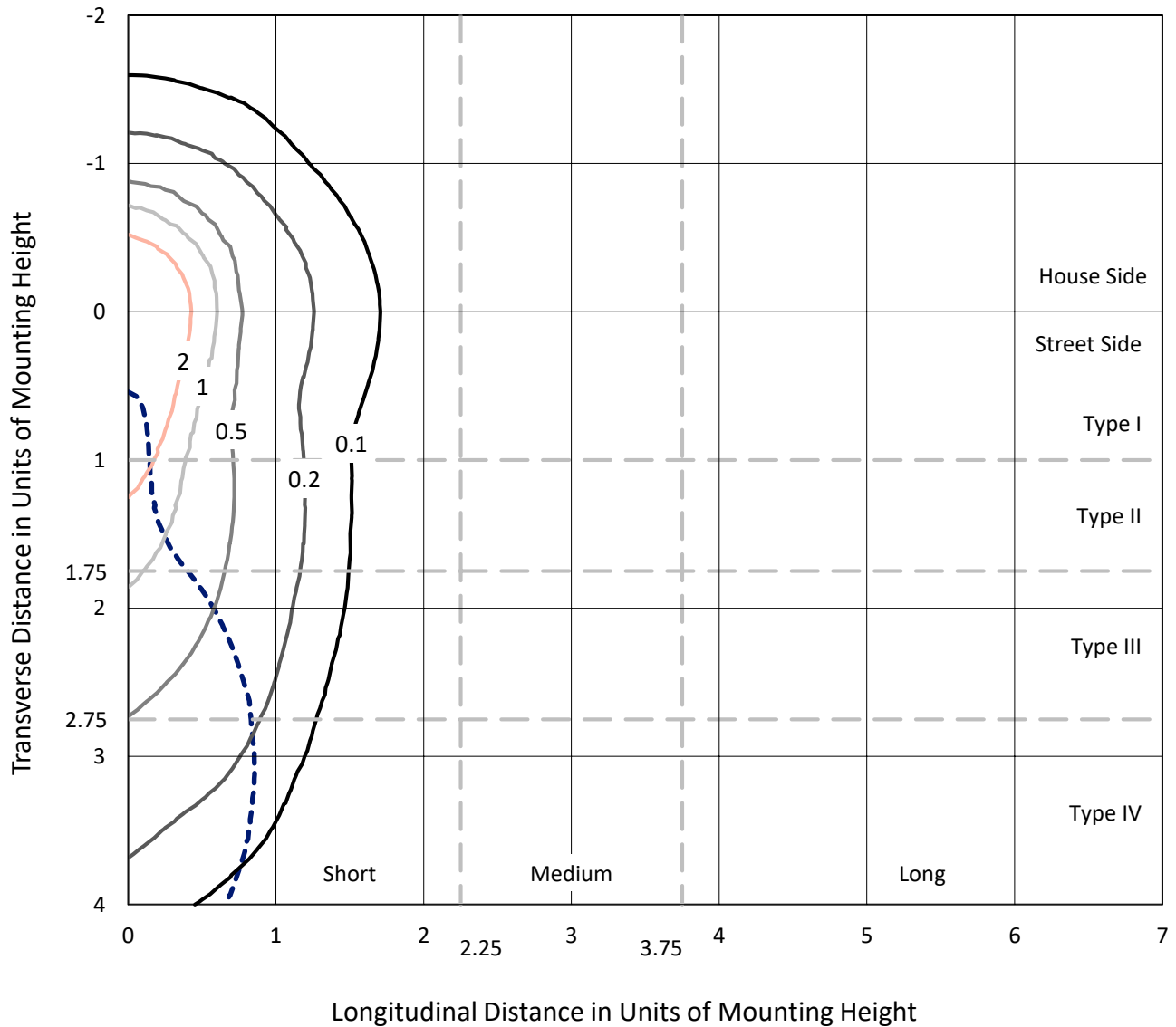
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

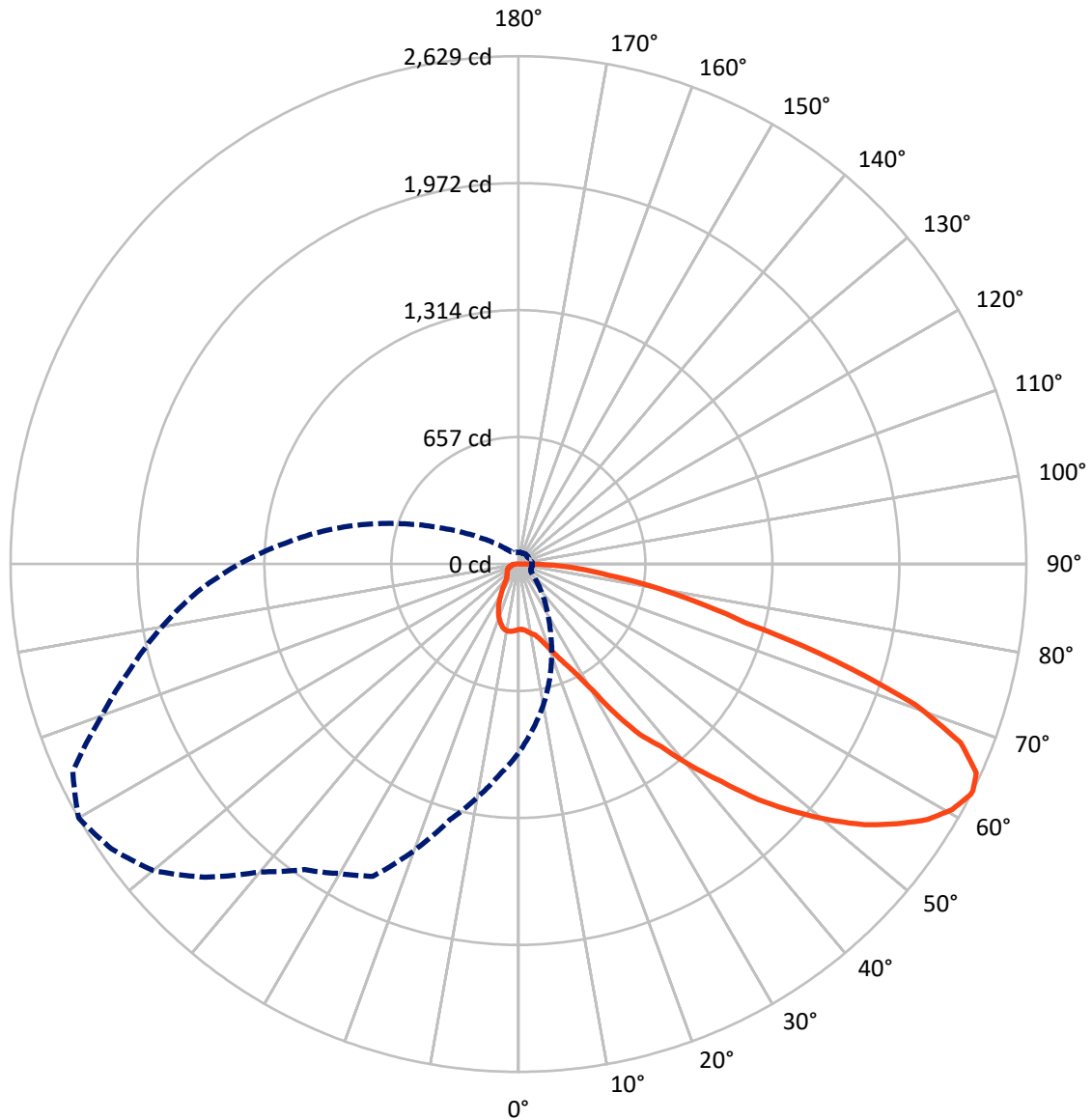
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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	578.5	0.0	578.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	2185.2	0.0	2185.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	2763.8	0.0	2763.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	1.2
10°-20°	104.0	3.8
20°-30°	184.0	6.7
30°-40°	290.5	10.5
40°-50°	427.1	15.5
50°-60°	562.7	20.4
60°-70°	627.1	22.7
70°-80°	412.1	14.9
80°-90°	122.9	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°	2763.8	100.0
0°-180°	2763.8	100.0



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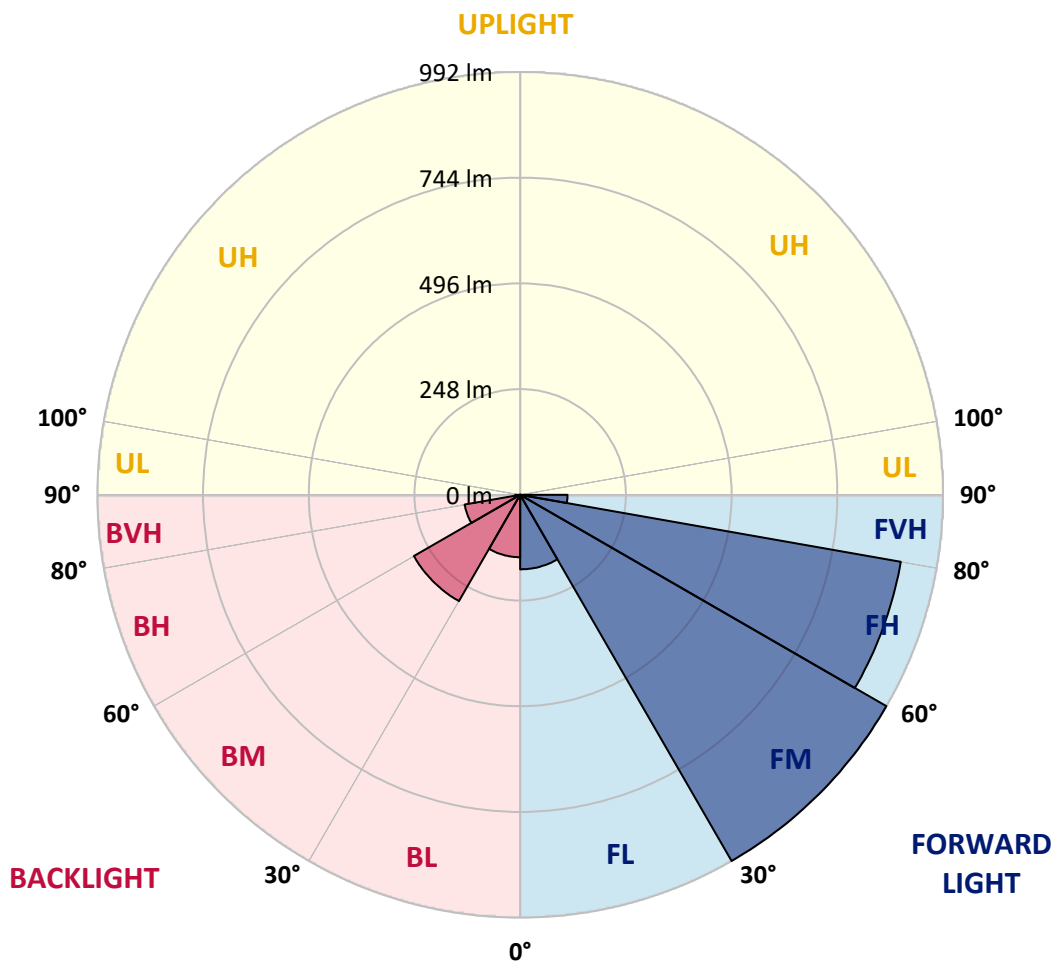
CATALOG NUMBER: LDRL-SLR-E01-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.9	6.3			
FM	(30°-60°)	992.3	35.9			
FH	(60°-80°)	907.0	32.8			G1/1800
FVH	(80°-90°)	111.1	4.0			G2/225
BL	(0°-30°)	146.5	5.3	B1/500		
BM	(30°-60°)	288.0	10.4	B1/1000		
BH	(60°-80°)	132.2	4.8	B1/500		G1/500
BVH	(80°-90°)	11.8	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°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	339.0	339.6	339.6	339.0	339.6	339.4	339.4	340.1	340.3	341.3	340.7
5°	337.4	337.6	337.8	337.4	337.6	337.6	338.0	338.6	338.8	340.1	339.4
7.5°	335.5	335.9	335.1	335.3	335.9	336.8	336.8	337.6	339.0	339.6	339.4
10°	336.6	336.2	335.5	335.3	335.7	335.9	336.4	337.8	339.0	339.6	340.7
12.5°	344.6	343.3	342.7	342.5	342.7	342.3	343.7	344.2	344.6	345.4	345.0
15°	359.8	358.1	357.1	356.1	358.3	357.3	357.3	356.1	354.0	350.9	347.0
17.5°	380.9	379.0	378.2	377.8	378.0	376.2	372.5	366.5	359.3	351.1	343.5
20°	411.3	414.1	412.9	407.4	405.3	397.1	385.4	373.1	360.6	347.4	334.9
22.5°	463.8	462.2	456.6	442.9	430.6	412.1	391.2	371.2	352.8	333.7	317.3
25°	524.8	511.0	495.4	468.3	440.0	409.6	379.5	355.9	331.2	310.3	290.6
27.5°	599.5	569.7	529.9	485.8	443.5	403.1	367.3	336.2	308.0	285.7	263.7
30°	672.9	623.3	567.8	509.4	452.3	397.7	350.5	314.4	282.0	253.2	231.1
32.5°	723.8	663.7	594.7	522.5	453.1	389.1	332.0	289.0	252.4	223.5	196.8
35°	765.7	690.6	604.2	520.4	440.0	369.0	305.6	257.8	219.0	189.0	165.6
37.5°	794.4	704.3	603.6	508.5	416.6	337.0	275.2	226.6	190.4	162.5	141.0
40°	814.5	708.6	595.6	488.2	389.7	306.0	242.8	198.4	166.8	145.1	129.5
42.5°	824.2	705.8	583.6	468.9	363.0	280.9	218.4	179.6	153.9	137.5	126.0
45°	828.3	698.8	570.3	450.0	341.3	259.4	205.8	173.8	153.7	139.6	127.0
47.5°	827.2	691.2	558.4	434.5	328.4	253.7	208.3	181.6	161.3	143.7	127.6
50°	824.4	684.2	550.8	428.7	328.1	262.3	222.0	194.8	170.1	147.3	127.0
52.5°	824.2	683.6	554.9	435.5	340.1	281.8	242.8	209.9	178.7	151.5	127.2
55°	829.1	694.7	572.4	453.7	368.8	309.1	266.2	226.2	188.4	154.3	126.6
57.5°	849.0	722.4	605.4	494.6	405.7	342.3	288.7	238.3	192.1	153.5	123.7
60°	892.7	771.0	656.3	552.2	453.1	372.7	302.1	242.4	190.4	148.6	117.6
62.5°	960.8	841.4	726.1	608.9	495.2	390.9	305.2	239.1	183.9	140.4	110.0
63°	978.3	857.6	740.2	620.6	502.4	392.8	305.0	237.9	182.0	138.3	108.2
65°	1051.1	927.2	797.1	659.2	521.7	396.5	300.2	230.1	173.8	128.7	99.7
67.5°	1160.7	1003.9	853.5	695.1	532.3	389.9	285.5	210.8	152.7	111.8	87.2
70°	1233.8	1054.8	887.2	706.8	519.8	360.0	251.6	176.7	124.8	92.1	74.5
72.5°	1235.6	1009.3	841.6	646.0	448.8	297.0	197.0	133.6	97.1	74.9	64.2
75°	1103.7	852.9	687.9	530.5	345.4	209.9	138.5	97.5	74.5	61.8	55.6
77.5°	820.5	622.2	496.4	356.9	224.3	136.1	96.5	72.2	59.1	51.1	46.6
80°	509.2	388.9	301.3	213.4	134.4	90.5	70.6	57.5	49.7	42.7	39.0
82.5°	307.0	217.7	170.1	128.9	86.0	65.3	54.4	48.4	42.1	35.9	33.0
85°	224.9	155.8	114.1	79.6	53.2	43.1	38.2	36.9	32.6	27.7	26.1
87.5°	70.8	74.3	77.2	47.0	25.7	19.5	16.6	19.5	18.7	13.1	14.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	341.7	342.5	341.9	341.9	341.5	341.3	342.7	342.3	342.7	342.5	342.9
5°	340.5	341.1	340.7	341.1	340.7	340.7	342.5	342.5	343.3	343.7	344.8
7.5°	340.9	341.1	340.9	341.5	341.1	340.7	341.7	342.3	343.7	345.0	346.0
10°	342.3	342.9	342.7	342.7	341.5	340.7	341.3	341.7	343.1	343.7	345.0
12.5°	345.8	345.0	343.3	342.3	339.4	337.8	337.0	336.6	337.6	338.4	339.0
15°	345.0	340.5	336.8	333.7	329.4	326.7	324.7	324.5	324.7	324.9	325.5
17.5°	336.6	330.4	323.0	319.1	314.2	311.3	309.9	308.9	308.7	309.1	310.1
20°	324.5	315.4	307.2	300.4	295.1	290.6	291.6	289.4	290.4	291.0	292.9
22.5°	306.0	293.5	284.0	275.8	269.5	264.7	264.7	262.7	263.1	264.9	267.4
25°	276.0	264.3	250.8	245.0	237.9	234.6	234.0	233.5	235.2	237.4	238.9
27.5°	248.9	232.9	219.6	212.0	204.4	205.2	201.1	203.6	205.4	207.3	208.9
30°	212.4	199.3	187.2	179.6	170.5	170.7	171.4	171.8	173.4	175.9	179.2
32.5°	177.3	163.2	151.9	143.7	138.3	136.7	134.4	138.1	140.2	142.6	145.9
35°	148.4	133.6	124.2	117.0	113.9	111.6	111.0	110.6	112.5	113.7	116.4
37.5°	127.6	117.6	110.6	105.5	102.6	100.1	99.5	99.1	98.9	98.5	100.1
40°	119.2	111.2	105.3	100.6	97.9	96.5	95.8	95.0	94.2	93.2	93.0
42.5°	116.8	108.2	101.2	96.5	94.4	94.2	94.2	93.8	93.0	91.5	90.5
45°	115.7	105.3	97.3	93.6	92.1	92.3	92.3	92.3	91.7	90.3	88.7
47.5°	113.9	101.8	93.6	90.5	89.9	90.3	90.7	90.7	90.3	89.1	87.2
50°	110.4	96.5	87.8	85.0	84.8	85.0	85.0	85.4	85.0	83.9	82.3
52.5°	107.7	92.3	83.5	81.3	81.3	81.1	80.9	80.9	80.7	79.8	78.6
55°	105.3	89.7	81.7	79.8	80.2	80.2	79.8	79.6	78.8	77.8	76.5
57.5°	101.8	86.8	79.8	78.6	79.0	78.8	78.6	78.4	77.6	76.3	74.7
60°	95.6	81.7	76.1	75.3	75.9	76.1	77.0	77.2	76.8	75.3	73.1
62.5°	88.9	75.3	71.2	70.6	71.2	71.8	72.4	72.0	72.0	70.6	68.5
63°	86.6	74.3	69.8	69.8	70.4	71.0	71.4	71.0	71.2	69.6	67.5
65°	81.5	70.6	67.1	67.3	67.9	68.3	68.5	68.5	68.3	67.1	65.3
67.5°	72.9	65.3	63.2	64.2	65.1	65.3	65.3	65.7	65.3	64.4	62.8
70°	65.1	60.1	58.7	59.9	60.3	60.5	60.5	60.5	60.1	59.3	57.9
72.5°	59.1	56.6	56.4	56.2	56.4	55.8	55.8	55.4	54.4	53.8	52.5
75°	52.5	51.3	51.5	51.3	50.9	50.7	49.7	49.3	48.0	47.2	45.6
77.5°	45.1	45.4	45.1	45.4	45.8	46.0	44.5	43.5	42.5	41.7	40.8
80°	37.6	38.0	37.6	38.0	38.2	38.2	36.7	35.1	34.3	34.9	35.1
82.5°	33.5	33.5	31.8	32.2	31.8	31.2	30.2	29.6	28.9	28.5	29.6
85°	26.5	26.7	27.1	26.7	25.9	25.2	24.2	23.4	22.8	23.4	24.8
87.5°	15.8	17.0	16.4	16.4	16.2	16.2	15.4	15.0	14.4	16.8	18.1
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°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	342.7	343.3	343.5	343.3	343.5	344.0	342.3	344.0	344.2	342.9	343.3
5°	345.6	346.6	348.1	348.1	349.1	349.7	348.9	351.1	351.5	351.3	352.4
7.5°	347.6	349.1	350.9	352.0	353.8	354.6	355.2	357.3	357.7	358.5	359.3
10°	347.4	349.5	351.1	354.0	356.3	357.9	359.1	361.4	362.2	363.4	364.1
12.5°	341.5	343.7	346.8	350.9	355.0	357.7	361.0	364.3	365.5	367.1	368.2
15°	328.1	330.0	334.3	339.6	345.2	352.0	356.7	361.8	364.1	365.7	367.1
17.5°	310.7	312.3	316.2	321.0	328.4	334.9	342.1	349.9	353.8	355.6	356.3
20°	294.5	297.0	298.0	303.5	306.0	312.6	318.7	327.3	332.3	335.5	337.6
22.5°	269.0	270.3	275.6	277.9	279.7	283.8	291.4	299.0	305.6	310.9	312.6
25°	240.9	244.2	247.1	248.9	253.2	253.4	259.6	264.9	273.1	278.3	282.4
27.5°	209.9	214.9	216.5	217.7	221.0	224.9	227.2	232.5	237.2	243.2	250.6
30°	178.7	183.5	186.8	188.6	191.7	195.4	197.0	200.5	206.7	213.2	219.0
32.5°	149.6	154.5	156.2	162.1	162.9	166.4	167.7	173.2	176.7	182.2	189.0
35°	121.1	126.2	131.1	134.4	138.1	137.9	141.2	146.3	149.4	155.1	159.7
37.5°	101.6	104.7	108.2	111.8	115.9	119.0	122.1	124.4	126.8	130.7	134.8
40°	93.0	93.8	95.2	97.5	100.4	102.6	104.9	106.7	108.6	111.6	114.3
42.5°	89.5	88.9	88.9	88.5	89.5	90.7	92.6	93.2	96.0	97.9	98.9
45°	87.0	85.6	84.6	83.3	82.9	83.3	84.3	85.8	87.6	88.2	88.2
47.5°	85.6	83.3	81.7	79.8	78.8	78.8	79.4	80.4	81.5	81.7	81.5
50°	80.7	78.4	76.3	74.7	73.9	73.9	74.1	75.5	75.7	75.3	75.5
52.5°	77.0	74.7	72.6	71.2	70.2	70.4	71.0	71.6	72.2	71.8	71.4
55°	74.7	72.0	70.2	68.5	67.3	67.7	68.3	69.2	70.2	69.6	69.0
57.5°	72.6	70.4	68.1	66.5	65.1	65.5	66.1	67.3	68.5	67.3	66.5
60°	70.8	68.5	66.3	64.6	63.0	63.4	64.2	65.5	66.5	64.8	63.8
62.5°	66.3	64.2	62.6	61.8	60.7	61.4	62.0	63.4	63.0	61.4	60.1
63°	65.5	63.4	62.0	61.2	60.3	61.2	61.4	62.8	62.2	60.5	59.5
65°	63.0	61.4	59.9	59.1	58.3	58.7	58.7	59.3	58.5	57.3	56.4
67.5°	60.7	58.9	57.5	55.8	55.0	54.6	54.4	54.2	53.6	52.9	52.7
70°	55.8	54.6	53.4	51.9	50.7	49.9	49.5	49.0	48.6	48.4	48.2
72.5°	50.5	49.5	48.2	47.4	46.4	45.8	44.7	44.5	44.1	43.7	43.5
75°	44.7	43.5	43.1	42.3	41.7	41.2	40.4	40.2	39.8	39.2	39.0
77.5°	39.6	39.2	38.6	38.4	37.4	36.7	36.3	36.1	35.7	35.3	34.9
80°	35.3	35.1	34.7	34.5	33.9	33.0	32.6	32.8	32.2	32.0	31.4
82.5°	31.8	32.0	32.0	31.4	30.8	29.8	29.3	30.0	29.6	28.7	27.9
85°	27.1	26.9	27.1	26.9	25.7	24.6	24.2	24.6	24.4	23.2	23.0
87.5°	19.3	19.1	18.7	19.9	18.3	14.8	15.2	17.2	16.6	16.0	15.6
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	344.2	343.5	344.0	344.2	343.5	345.0	343.5	343.7	344.2	342.9	342.7
5°	353.2	353.2	354.8	355.0	354.8	356.7	356.5	356.7	356.3	356.1	355.2
7.5°	360.6	361.4	362.6	364.5	365.1	366.5	366.9	367.1	368.0	368.8	368.4
10°	365.9	368.2	369.2	371.0	372.9	373.9	374.9	376.6	377.2	377.8	377.0
12.5°	369.6	372.3	373.9	376.2	378.4	380.1	381.9	384.0	386.0	386.6	385.6
15°	367.8	370.8	373.3	375.8	379.2	382.3	385.8	389.5	392.2	393.2	392.0
17.5°	356.3	359.3	363.0	366.7	370.4	376.2	381.1	387.3	391.6	394.6	395.1
20°	340.5	342.3	347.6	351.3	357.3	364.1	371.5	378.6	383.6	389.1	392.4
22.5°	317.1	320.8	326.7	333.1	339.0	347.8	355.6	365.1	373.5	381.1	388.3
25°	288.5	293.7	300.6	309.5	317.3	326.7	338.0	348.5	362.6	374.5	389.9
27.5°	257.8	267.2	276.8	286.1	294.7	305.4	317.1	328.8	345.0	364.1	384.2
30°	228.6	236.4	248.5	259.2	269.3	282.4	294.5	307.4	322.8	345.4	368.2
32.5°	198.2	204.6	214.0	227.2	238.9	254.3	264.9	280.3	298.2	322.0	347.8
35°	166.8	175.7	183.3	192.3	201.1	216.5	232.5	249.5	270.1	295.5	323.8
37.5°	139.1	144.7	148.4	157.6	165.4	178.5	197.2	217.7	240.3	266.2	296.5
40°	116.2	119.6	123.7	129.9	136.5	148.4	165.6	188.6	212.2	238.1	268.4
42.5°	100.4	102.6	103.0	107.7	113.9	125.6	139.3	160.5	186.5	213.6	244.0
45°	89.5	89.5	89.3	91.3	96.2	106.3	118.8	137.7	162.5	190.9	222.5
47.5°	81.9	82.5	82.3	83.1	86.4	93.8	105.1	121.1	143.7	171.4	203.2
50°	76.1	77.0	77.2	77.4	78.6	84.8	94.4	107.3	127.4	153.9	185.9
52.5°	71.6	71.8	71.8	71.6	72.0	75.5	83.5	95.4	114.1	137.9	168.7
55°	69.2	69.4	69.4	69.4	69.4	71.6	77.4	87.0	102.0	124.4	152.3
57.5°	66.3	66.3	66.7	66.7	66.7	67.5	71.6	79.6	91.1	109.0	133.8
60°	63.8	64.4	65.3	65.5	65.3	65.3	67.3	72.6	80.2	93.2	114.1
62.5°	60.1	61.0	62.0	62.4	62.6	62.2	63.2	65.5	70.0	76.8	90.9
63°	59.5	60.3	61.2	61.6	61.8	61.4	62.2	64.0	67.7	73.3	86.0
65°	56.8	57.9	58.1	58.3	58.1	57.9	57.7	57.7	58.7	60.7	67.5
67.5°	53.2	53.8	53.8	54.2	53.2	52.7	52.3	51.9	51.3	51.5	54.0
70°	48.8	49.3	49.0	48.8	48.4	47.8	47.4	46.8	45.6	45.1	46.4
72.5°	43.9	44.3	44.3	44.3	43.5	43.1	42.7	42.3	41.9	42.3	42.7
75°	39.4	39.4	39.8	39.6	39.0	38.6	38.4	38.2	38.2	38.2	38.0
77.5°	35.1	34.9	34.9	34.3	33.9	33.7	34.1	34.3	34.1	33.7	33.5
80°	31.4	30.4	29.3	28.5	28.3	28.7	29.1	30.4	29.8	29.8	29.3
82.5°	26.7	24.4	23.0	23.2	22.6	22.8	23.2	24.6	24.2	24.4	25.2
85°	21.3	19.3	17.0	17.4	17.4	17.0	18.1	18.5	18.9	19.9	19.1
87.5°	15.0	13.1	10.9	9.4	9.9	10.3	10.7	10.3	9.0	9.4	9.2
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°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	342.3	342.5	342.5	341.1	340.7	341.1	340.9	340.9	339.6	339.8	339.4
5°	354.8	355.2	354.0	353.0	351.5	351.3	351.1	350.3	349.5	347.8	347.0
7.5°	368.2	366.3	365.9	364.1	363.4	361.8	360.6	359.3	358.3	357.5	356.9
10°	376.6	375.1	374.7	371.5	370.4	368.4	367.1	365.7	364.5	363.2	363.0
12.5°	384.2	381.7	380.3	375.8	373.7	371.5	370.4	369.2	368.8	368.6	369.4
15°	390.1	386.6	384.0	379.9	378.2	377.0	377.2	376.6	379.0	380.5	383.1
17.5°	394.0	392.6	392.0	388.9	389.9	389.9	392.8	394.2	398.7	402.4	406.1
20°	396.1	398.7	403.9	404.9	407.4	410.0	414.3	416.8	421.5	426.9	432.0
22.5°	397.9	409.2	419.7	427.5	433.0	439.2	442.3	447.4	450.7	454.6	462.4
25°	408.2	427.1	445.5	455.6	468.7	477.5	484.5	489.7	495.4	498.7	507.5
27.5°	405.3	429.3	453.9	472.4	492.9	509.6	524.3	534.2	541.6	553.5	560.9
30°	392.2	420.1	449.8	476.1	504.8	531.9	557.6	580.6	600.3	616.3	627.2
32.5°	373.5	405.5	440.4	472.8	509.6	545.7	582.6	617.7	651.2	677.6	694.3
35°	352.6	387.0	425.6	464.0	508.1	555.3	605.2	652.4	700.8	743.1	776.4
37.5°	327.1	364.5	406.7	451.3	502.0	558.6	621.4	685.6	747.4	811.4	858.2
40°	300.4	337.0	380.9	431.8	490.3	557.0	633.9	717.2	806.7	889.2	960.4
42.5°	277.7	313.4	359.3	409.6	472.6	550.8	642.3	745.6	855.8	962.7	1057.3
45°	255.3	293.5	339.8	393.0	461.7	548.4	653.2	770.2	896.0	1022.8	1143.5
47.5°	237.6	275.4	322.2	379.2	452.9	546.9	663.5	793.2	928.8	1067.6	1210.6
50°	220.8	256.9	302.5	362.6	443.7	544.7	669.6	811.4	954.5	1102.7	1258.2
52.5°	203.6	241.1	285.5	343.7	431.6	540.1	671.5	825.8	981.0	1136.3	1302.7
55°	186.1	223.7	268.0	328.4	415.2	531.3	670.0	836.3	1008.7	1171.8	1343.4
57.5°	164.8	201.7	248.1	308.9	394.0	513.7	663.1	840.8	1025.9	1205.1	1384.2
60°	140.8	175.7	219.6	281.6	368.2	488.2	647.5	834.4	1033.7	1227.0	1427.5
62.5°	110.6	141.0	181.4	243.0	330.6	451.5	613.4	806.3	1014.8	1221.5	1446.2
63°	103.8	133.2	174.8	232.7	319.5	438.8	603.4	796.7	1006.4	1216.3	1443.9
65°	79.2	101.0	135.4	187.2	270.1	380.1	550.4	742.1	953.5	1165.2	1408.4
67.5°	58.5	69.8	90.9	125.6	190.0	295.7	451.1	640.9	841.0	1040.1	1287.6
70°	48.4	52.7	62.6	80.4	117.6	196.2	318.7	487.8	676.0	847.4	1070.8
72.5°	43.3	46.4	50.9	58.9	74.3	115.1	207.3	316.7	470.8	618.9	807.8
75°	38.8	40.8	44.5	49.3	56.2	72.0	109.6	187.8	287.7	417.0	554.1
77.5°	34.1	36.1	39.8	43.5	48.0	54.8	67.9	106.9	172.2	243.4	340.1
80°	29.6	30.6	33.7	39.0	42.3	47.8	52.1	66.9	93.8	127.4	181.2
82.5°	24.4	24.6	26.7	30.8	34.9	36.9	38.2	42.1	54.0	67.3	88.9
85°	17.4	16.6	17.9	19.5	22.8	20.9	22.4	23.6	28.7	34.7	63.6
87.5°	7.8	6.2	7.2	8.0	7.2	4.9	7.2	6.0	7.4	14.6	16.4
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°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	0°
2.5°	339.8	338.6	338.6	338.4	338.6	338.2	337.4	337.4	338.0	337.8	337.8	2.5°
5°	347.0	345.4	345.0	344.8	344.8	343.7	342.5	341.9	341.7	340.9	340.3	5°
7.5°	356.5	355.4	356.1	354.8	354.4	354.2	352.6	351.3	349.5	348.7	345.6	7.5°
10°	364.3	363.7	365.3	365.1	365.3	365.3	363.0	361.8	359.1	357.7	353.8	10°
12.5°	371.0	371.5	374.5	374.5	375.1	376.0	374.7	372.1	371.0	369.6	365.5	12.5°
15°	388.3	389.9	392.2	395.9	396.9	397.1	398.1	395.9	393.2	389.5	384.6	15°
17.5°	411.7	415.0	422.6	427.9	428.9	429.9	429.3	428.9	424.0	420.9	415.8	17.5°
20°	441.0	449.0	459.7	467.1	470.4	470.8	474.9	472.0	467.5	461.3	453.9	20°
22.5°	473.9	487.2	500.7	511.6	518.0	520.9	525.2	521.1	515.1	511.4	501.6	22.5°
25°	518.8	533.4	549.0	557.6	573.8	578.5	581.0	579.7	573.6	576.3	567.2	25°
27.5°	580.4	592.9	614.8	625.7	640.9	649.7	647.9	658.1	660.0	666.4	667.4	27.5°
30°	647.5	668.2	697.8	719.7	742.9	757.9	769.8	778.8	789.3	806.9	817.6	30°
32.5°	719.9	749.9	787.6	834.2	883.5	923.7	969.1	976.9	1000.2	993.5	989.0	32.5°
35°	800.6	838.3	886.8	947.9	1019.5	1086.0	1129.7	1151.7	1160.9	1166.1	1134.9	35°
37.5°	908.5	959.6	1013.6	1080.3	1135.1	1197.3	1247.5	1302.1	1327.2	1315.3	1255.5	37.5°
40°	1028.2	1076.0	1149.0	1203.6	1268.3	1370.7	1438.8	1504.5	1525.0	1485.4	1391.8	40°
42.5°	1148.2	1213.9	1293.1	1370.7	1445.0	1537.7	1628.0	1692.9	1715.4	1647.7	1536.7	42.5°
45°	1255.1	1339.3	1432.4	1512.1	1615.9	1737.2	1847.8	1899.9	1895.8	1787.1	1662.1	45°
47.5°	1348.3	1457.5	1562.6	1669.9	1774.5	1911.4	2021.0	2080.9	2038.5	1924.2	1782.6	47.5°
50°	1425.3	1557.2	1684.0	1807.4	1935.9	2081.4	2187.0	2242.5	2177.8	2033.1	1874.9	50°
52.5°	1483.7	1647.3	1793.4	1931.3	2084.8	2242.0	2336.0	2369.5	2268.7	2117.5	1944.1	52.5°
55°	1539.0	1723.9	1885.6	2042.2	2233.2	2374.2	2462.2	2456.1	2326.0	2154.2	1987.4	55°
57.5°	1580.6	1789.1	1961.3	2139.6	2345.5	2496.1	2547.0	2506.4	2349.8	2165.1	1999.9	57.5°
60°	1633.1	1840.0	2028.6	2227.7	2452.2	2579.6	2586.4	2513.5	2343.0	2144.6	1982.2	60°
62.5°	1666.8	1871.8	2071.5	2288.0	2533.5	2626.6	2578.2	2482.6	2304.0	2093.9	1941.8	62.5°
63°	1670.1	1874.9	2075.0	2294.0	2544.9	2628.7	2570.6	2468.6	2292.5	2079.9	1931.1	63°
65°	1655.3	1866.1	2059.0	2283.3	2547.8	2604.5	2515.0	2411.3	2229.1	2008.7	1868.3	65°
67.5°	1552.1	1771.3	1955.3	2165.7	2437.0	2468.4	2378.7	2266.1	2094.9	1855.2	1731.0	67.5°
70°	1367.2	1575.5	1706.0	1901.4	2140.0	2177.6	2097.4	2010.1	1858.1	1657.8	1554.8	70°
72.5°	1101.4	1306.0	1384.4	1534.0	1723.7	1715.4	1659.0	1648.1	1568.1	1400.0	1338.0	72.5°
75°	823.3	1018.1	1051.1	1112.1	1218.0	1215.3	1228.5	1275.2	1315.3	1215.9	1136.5	75°
77.5°	543.0	736.7	757.3	828.3	857.6	938.1	1032.5	1150.1	1208.3	1167.7	1070.2	77.5°
80°	300.4	504.0	499.9	527.6	579.5	696.5	839.6	1014.2	1130.8	1101.6	994.9	80°
82.5°	156.2	318.5	313.8	318.7	366.9	465.2	574.0	716.8	837.3	840.0	804.1	82.5°
85°	116.2	228.6	242.2	253.2	285.3	319.5	339.4	385.2	451.3	512.8	534.8	85°
87.5°	42.7	137.3	170.9	183.7	184.5	180.2	146.7	161.5	146.9	173.8	242.8	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°
339.4	339.4	339.4	339.4	339.4	339.4	339.4
338.2	338.2	338.0	338.4	338.6	339.2	339.0
339.6	339.0	338.4	338.0	337.6	337.8	337.4
343.3	341.3	339.6	338.2	337.0	336.8	335.5
351.5	347.8	344.8	342.5	340.1	338.8	336.6
362.0	357.9	354.0	350.7	347.8	346.2	344.6
380.3	374.3	369.6	366.1	363.2	361.4	359.8
407.4	400.0	392.8	386.0	385.2	380.9	380.9
444.7	434.7	425.4	419.7	417.0	411.3	411.3
496.4	486.6	472.8	465.9	466.5	461.5	463.8
563.3	555.1	541.0	538.1	538.1	532.8	524.8
663.7	660.8	645.2	649.1	640.9	621.0	599.5
812.7	812.7	782.5	760.8	741.9	710.9	672.9
961.9	942.4	896.2	859.3	820.1	772.7	723.8
1087.9	1036.0	989.2	944.0	885.1	834.2	765.7
1194.2	1144.9	1091.4	1022.6	953.5	882.5	794.4
1325.9	1266.0	1185.6	1099.2	1014.2	916.5	814.5
1446.4	1371.3	1269.7	1160.3	1052.2	943.2	824.2
1559.7	1462.8	1337.4	1206.1	1083.0	959.6	828.3
1666.4	1536.5	1390.6	1238.7	1104.1	968.4	827.2
1736.8	1590.5	1424.0	1258.4	1116.8	971.5	824.4
1780.9	1623.5	1443.7	1269.3	1123.2	972.1	824.2
1805.7	1642.2	1454.4	1276.9	1130.2	975.8	829.1
1825.0	1657.0	1466.3	1289.8	1146.8	993.1	849.0
1843.3	1695.7	1497.3	1313.6	1175.7	1025.3	892.7
1850.9	1769.4	1560.3	1357.5	1216.1	1077.0	960.8
1850.3	1783.4	1578.6	1369.6	1226.8	1090.8	978.3
1827.9	1827.7	1661.7	1427.5	1276.5	1154.4	1051.1
1761.6	1849.9	1753.6	1503.9	1353.6	1259.2	1160.7
1656.7	1823.0	1766.1	1524.0	1408.4	1355.5	1233.8
1476.2	1694.5	1649.0	1438.2	1389.8	1374.4	1235.6
1194.0	1362.3	1342.8	1228.7	1246.5	1278.1	1103.7
961.9	956.5	953.7	912.2	988.1	1052.4	820.5
803.4	661.8	614.6	598.6	723.8	773.1	509.2
751.1	594.5	476.9	456.8	542.4	568.7	307.0
574.0	577.3	499.7	428.3	421.9	386.2	224.9
280.9	285.7	301.9	275.6	236.4	199.3	70.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)