

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: P146030

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146030
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
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5386.9 lumens
Efficiency: N/A
Efficacy: 103.4 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

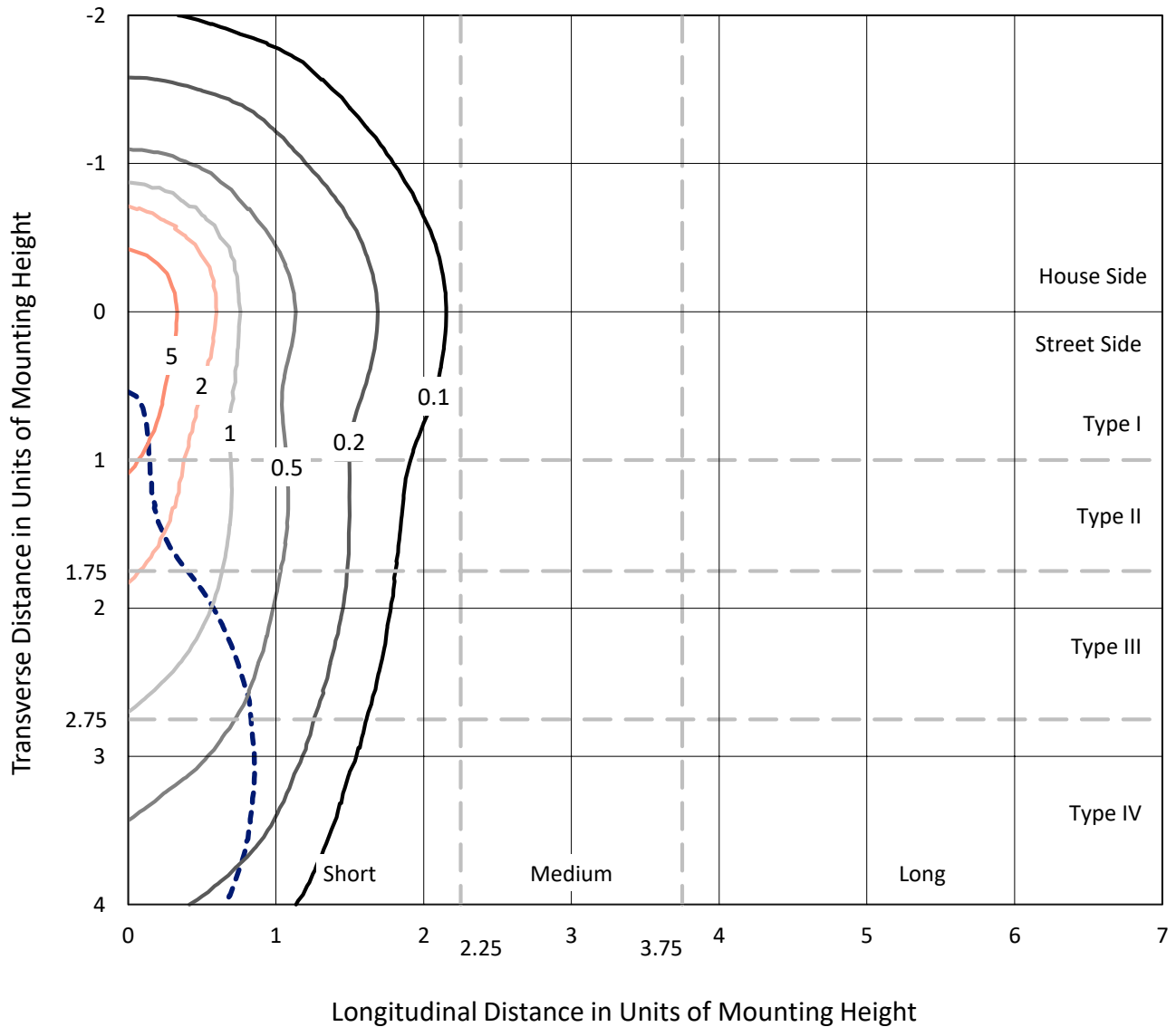
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

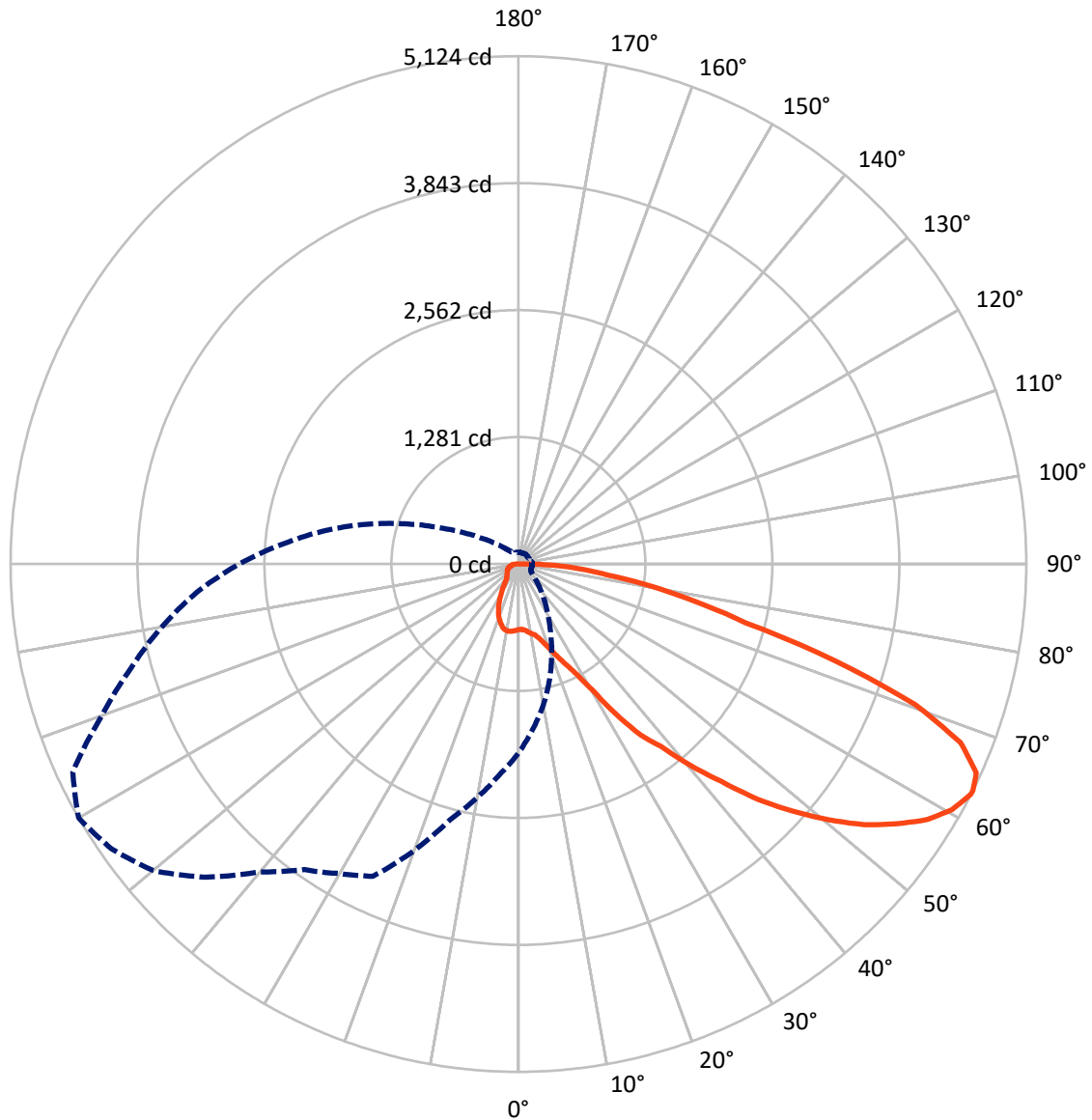
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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	1127.6	0.0	1127.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4259.2	0.0	4259.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	5386.9	0.0	5386.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.2
10°-20°	202.8	3.8
20°-30°	358.6	6.7
30°-40°	566.2	10.5
40°-50°	832.6	15.5
50°-60°	1096.7	20.4
60°-70°	1222.4	22.7
70°-80°	803.1	14.9
80°-90°	239.5	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°	5386.9	100.0
0°-180°	5386.9	100.0



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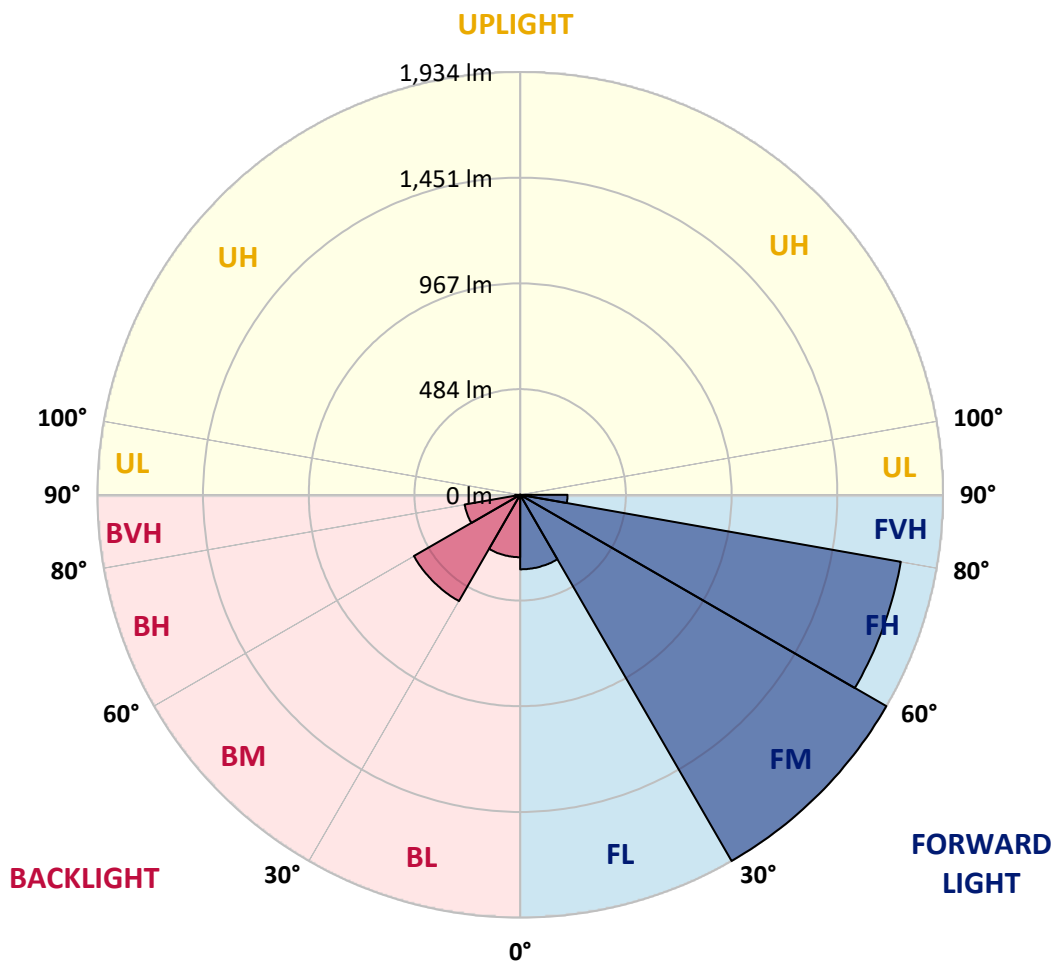
CATALOG NUMBER: LDRL-SLR-E02-E

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.9	6.3			
FM	(30°-60°)	1934.0	35.9			
FH	(60°-80°)	1767.8	32.8			G1/1800
FVH	(80°-90°)	216.5	4.0			G2/225
BL	(0°-30°)	285.5	5.3	B1/500		
BM	(30°-60°)	561.4	10.4	B1/1000		
BH	(60°-80°)	257.7	4.8	B1/500		G1/500
BVH	(80°-90°)	23.0	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°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	660.8	662.0	662.0	660.8	662.0	661.6	661.6	662.8	663.2	665.2	664.0
5°	657.6	658.0	658.4	657.6	658.0	658.0	658.8	660.0	660.4	662.8	661.6
7.5°	654.0	654.8	653.2	653.6	654.8	656.4	656.4	658.0	660.8	662.0	661.6
10°	656.0	655.2	654.0	653.6	654.4	654.8	655.6	658.4	660.8	662.0	664.0
12.5°	671.6	669.2	668.0	667.6	668.0	667.2	670.0	670.8	671.6	673.2	672.4
15°	701.2	698.0	696.0	694.0	698.4	696.4	696.4	694.0	690.0	684.0	676.4
17.5°	742.4	738.8	737.2	736.4	736.8	733.2	726.0	714.4	700.4	684.4	669.6
20°	801.6	807.2	804.8	794.0	790.0	774.0	751.2	727.2	702.8	677.2	652.8
22.5°	904.0	900.8	890.0	863.2	839.2	803.2	762.4	723.6	687.6	650.4	618.4
25°	1022.8	996.0	965.6	912.8	857.6	798.4	739.6	693.6	645.6	604.8	566.4
27.5°	1168.4	1110.4	1032.8	946.8	864.4	785.6	716.0	655.2	600.4	556.8	514.0
30°	1311.6	1214.8	1106.8	992.8	881.6	775.2	683.2	612.8	549.6	493.6	450.4
32.5°	1410.8	1293.6	1159.2	1018.4	883.2	758.4	647.2	563.2	492.0	435.6	383.6
35°	1492.4	1346.0	1177.6	1014.4	857.6	719.2	595.6	502.4	426.8	368.4	322.8
37.5°	1548.4	1372.8	1176.4	991.2	812.0	656.8	536.4	441.6	371.2	316.8	274.8
40°	1587.6	1381.2	1160.8	951.6	759.6	596.4	473.2	386.8	325.2	282.8	252.4
42.5°	1606.4	1375.6	1137.6	914.0	707.6	547.6	425.6	350.0	300.0	268.0	245.6
45°	1614.4	1362.0	1111.6	877.2	665.2	505.6	401.2	338.8	299.6	272.0	247.6
47.5°	1612.4	1347.2	1088.4	846.8	640.0	494.4	406.0	354.0	314.4	280.0	248.8
50°	1606.8	1333.6	1073.6	835.6	639.6	511.2	432.8	379.6	331.6	287.2	247.6
52.5°	1606.4	1332.4	1081.6	848.8	662.8	549.2	473.2	409.2	348.4	295.2	248.0
55°	1616.0	1354.0	1115.6	884.4	718.8	602.4	518.8	440.8	367.2	300.8	246.8
57.5°	1654.8	1408.0	1180.0	964.0	790.8	667.2	562.8	464.4	374.4	299.2	241.2
60°	1740.0	1502.8	1279.2	1076.4	883.2	726.4	588.8	472.4	371.2	289.6	229.2
62.5°	1872.8	1640.0	1415.2	1186.8	965.2	762.0	594.8	466.0	358.4	273.6	214.4
63°	1906.8	1671.6	1442.8	1209.6	979.2	765.6	594.4	463.6	354.8	269.6	210.8
65°	2048.8	1807.2	1553.6	1284.8	1016.8	772.8	585.2	448.4	338.8	250.8	194.4
67.5°	2262.4	1956.8	1663.6	1354.8	1037.6	760.0	556.4	410.8	297.6	218.0	170.0
70°	2404.8	2056.0	1729.2	1377.6	1013.2	701.6	490.4	344.4	243.2	179.6	145.2
72.5°	2408.4	1967.2	1640.4	1259.2	874.8	578.8	384.0	260.4	189.2	146.0	125.2
75°	2151.2	1662.4	1340.8	1034.0	673.2	409.2	270.0	190.0	145.2	120.4	108.4
77.5°	1599.2	1212.8	967.6	695.6	437.2	265.2	188.0	140.8	115.2	99.6	90.8
80°	992.4	758.0	587.2	416.0	262.0	176.4	137.6	112.0	96.8	83.2	76.0
82.5°	598.4	424.4	331.6	251.2	167.6	127.2	106.0	94.4	82.0	70.0	64.4
85°	438.4	303.6	222.4	155.2	103.6	84.0	74.4	72.0	63.6	54.0	50.8
87.5°	138.0	144.8	150.4	91.6	50.0	38.0	32.4	38.0	36.4	25.6	28.0
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	666.0	667.6	666.4	666.4	665.6	665.2	668.0	667.2	668.0	667.6	668.4
5°	663.6	664.8	664.0	664.8	664.0	664.0	667.6	667.6	669.2	670.0	672.0
7.5°	664.4	664.8	664.4	665.6	664.8	664.0	666.0	667.2	670.0	672.4	674.4
10°	667.2	668.4	668.0	668.0	665.6	664.0	665.2	666.0	668.8	670.0	672.4
12.5°	674.0	672.4	669.2	667.2	661.6	658.4	656.8	656.0	658.0	659.6	660.8
15°	672.4	663.6	656.4	650.4	642.0	636.8	632.8	632.4	632.8	633.2	634.4
17.5°	656.0	644.0	629.6	622.0	612.4	606.8	604.0	602.0	601.6	602.4	604.4
20°	632.4	614.8	598.8	585.6	575.2	566.4	568.4	564.0	566.0	567.2	570.8
22.5°	596.4	572.0	553.6	537.6	525.2	516.0	516.0	512.0	512.8	516.4	521.2
25°	538.0	515.2	488.8	477.6	463.6	457.2	456.0	455.2	458.4	462.8	465.6
27.5°	485.2	454.0	428.0	413.2	398.4	400.0	392.0	396.8	400.4	404.0	407.2
30°	414.0	388.4	364.8	350.0	332.4	332.8	334.0	334.8	338.0	342.8	349.2
32.5°	345.6	318.0	296.0	280.0	269.6	266.4	262.0	269.2	273.2	278.0	284.4
35°	289.2	260.4	242.0	228.0	222.0	217.6	216.4	215.6	219.2	221.6	226.8
37.5°	248.8	229.2	215.6	205.6	200.0	195.2	194.0	193.2	192.8	192.0	195.2
40°	232.4	216.8	205.2	196.0	190.8	188.0	186.8	185.2	183.6	181.6	181.2
42.5°	227.6	210.8	197.2	188.0	184.0	183.6	183.6	182.8	181.2	178.4	176.4
45°	225.6	205.2	189.6	182.4	179.6	180.0	180.0	180.0	178.8	176.0	172.8
47.5°	222.0	198.4	182.4	176.4	175.2	176.0	176.8	176.8	176.0	173.6	170.0
50°	215.2	188.0	171.2	165.6	165.2	165.6	165.6	166.4	165.6	163.6	160.4
52.5°	210.0	180.0	162.8	158.4	158.4	158.0	157.6	157.6	157.2	155.6	153.2
55°	205.2	174.8	159.2	155.6	156.4	156.4	155.6	155.2	153.6	151.6	149.2
57.5°	198.4	169.2	155.6	153.2	154.0	153.6	153.2	152.8	151.2	148.8	145.6
60°	186.4	159.2	148.4	146.8	148.0	148.4	150.0	150.4	149.6	146.8	142.4
62.5°	173.2	146.8	138.8	137.6	138.8	140.0	141.2	140.4	140.4	137.6	133.6
63°	168.8	144.8	136.0	136.0	137.2	138.4	139.2	138.4	138.8	135.6	131.6
65°	158.8	137.6	130.8	131.2	132.4	133.2	133.6	133.6	133.2	130.8	127.2
67.5°	142.0	127.2	123.2	125.2	126.8	127.2	127.2	128.0	127.2	125.6	122.4
70°	126.8	117.2	114.4	116.8	117.6	118.0	118.0	118.0	117.2	115.6	112.8
72.5°	115.2	110.4	110.0	109.6	110.0	108.8	108.8	108.0	106.0	104.8	102.4
75°	102.4	100.0	100.4	100.0	99.2	98.8	96.8	96.0	93.6	92.0	88.8
77.5°	88.0	88.4	88.0	88.4	89.2	89.6	86.8	84.8	82.8	81.2	79.6
80°	73.2	74.0	73.2	74.0	74.4	74.4	71.6	68.4	66.8	68.0	68.4
82.5°	65.2	65.2	62.0	62.8	62.0	60.8	58.8	57.6	56.4	55.6	57.6
85°	51.6	52.0	52.8	52.0	50.4	49.2	47.2	45.6	44.4	45.6	48.4
87.5°	30.8	33.2	32.0	32.0	31.6	31.6	30.0	29.2	28.0	32.8	35.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	668.0	669.2	669.6	669.2	669.6	670.4	667.2	670.4	670.8	668.4	669.2
5°	673.6	675.6	678.4	678.4	680.4	681.6	680.0	684.4	685.2	684.8	686.8
7.5°	677.6	680.4	684.0	686.0	689.6	691.2	692.4	696.4	697.2	698.8	700.4
10°	677.2	681.2	684.4	690.0	694.4	697.6	700.0	704.4	706.0	708.4	709.6
12.5°	665.6	670.0	676.0	684.0	692.0	697.2	703.6	710.0	712.4	715.6	717.6
15°	639.6	643.2	651.6	662.0	672.8	686.0	695.2	705.2	709.6	712.8	715.6
17.5°	605.6	608.8	616.4	625.6	640.0	652.8	666.8	682.0	689.6	693.2	694.4
20°	574.0	578.8	580.8	591.6	596.4	609.2	621.2	638.0	647.6	654.0	658.0
22.5°	524.4	526.8	537.2	541.6	545.2	553.2	568.0	582.8	595.6	606.0	609.2
25°	469.6	476.0	481.6	485.2	493.6	494.0	506.0	516.4	532.4	542.4	550.4
27.5°	409.2	418.8	422.0	424.4	430.8	438.4	442.8	453.2	462.4	474.0	488.4
30°	348.4	357.6	364.0	367.6	373.6	380.8	384.0	390.8	402.8	415.6	426.8
32.5°	291.6	301.2	304.4	316.0	317.6	324.4	326.8	337.6	344.4	355.2	368.4
35°	236.0	246.0	255.6	262.0	269.2	268.8	275.2	285.2	291.2	302.4	311.2
37.5°	198.0	204.0	210.8	218.0	226.0	232.0	238.0	242.4	247.2	254.8	262.8
40°	181.2	182.8	185.6	190.0	195.6	200.0	204.4	208.0	211.6	217.6	222.8
42.5°	174.4	173.2	173.2	172.4	174.4	176.8	180.4	181.6	187.2	190.8	192.8
45°	169.6	166.8	164.8	162.4	161.6	162.4	164.4	167.2	170.8	172.0	172.0
47.5°	166.8	162.4	159.2	155.6	153.6	153.6	154.8	156.8	158.8	159.2	158.8
50°	157.2	152.8	148.8	145.6	144.0	144.0	144.4	147.2	147.6	146.8	147.2
52.5°	150.0	145.6	141.6	138.8	136.8	137.2	138.4	139.6	140.8	140.0	139.2
55°	145.6	140.4	136.8	133.6	131.2	132.0	133.2	134.8	136.8	135.6	134.4
57.5°	141.6	137.2	132.8	129.6	126.8	127.6	128.8	131.2	133.6	131.2	129.6
60°	138.0	133.6	129.2	126.0	122.8	123.6	125.2	127.6	129.6	126.4	124.4
62.5°	129.2	125.2	122.0	120.4	118.4	119.6	120.8	123.6	122.8	119.6	117.2
63°	127.6	123.6	120.8	119.2	117.6	119.2	119.6	122.4	121.2	118.0	116.0
65°	122.8	119.6	116.8	115.2	113.6	114.4	114.4	115.6	114.0	111.6	110.0
67.5°	118.4	114.8	112.0	108.8	107.2	106.4	106.0	105.6	104.4	103.2	102.8
70°	108.8	106.4	104.0	101.2	98.8	97.2	96.4	95.6	94.8	94.4	94.0
72.5°	98.4	96.4	94.0	92.4	90.4	89.2	87.2	86.8	86.0	85.2	84.8
75°	87.2	84.8	84.0	82.4	81.2	80.4	78.8	78.4	77.6	76.4	76.0
77.5°	77.2	76.4	75.2	74.8	72.8	71.6	70.8	70.4	69.6	68.8	68.0
80°	68.8	68.4	67.6	67.2	66.0	64.4	63.6	64.0	62.8	62.4	61.2
82.5°	62.0	62.4	62.4	61.2	60.0	58.0	57.2	58.4	57.6	56.0	54.4
85°	52.8	52.4	52.8	52.4	50.0	48.0	47.2	48.0	47.6	45.2	44.8
87.5°	37.6	37.2	36.4	38.8	35.6	28.8	29.6	33.6	32.4	31.2	30.4
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	670.8	669.6	670.4	670.8	669.6	672.4	669.6	670.0	670.8	668.4	668.0
5°	688.4	688.4	691.6	692.0	691.6	695.2	694.8	695.2	694.4	694.0	692.4
7.5°	702.8	704.4	706.8	710.4	711.6	714.4	715.2	715.6	717.2	718.8	718.0
10°	713.2	717.6	719.6	723.2	726.8	728.8	730.8	734.0	735.2	736.4	734.8
12.5°	720.4	725.6	728.8	733.2	737.6	740.8	744.4	748.4	752.4	753.6	751.6
15°	716.8	722.8	727.6	732.4	739.2	745.2	752.0	759.2	764.4	766.4	764.0
17.5°	694.4	700.4	707.6	714.8	722.0	733.2	742.8	754.8	763.2	769.2	770.0
20°	663.6	667.2	677.6	684.8	696.4	709.6	724.0	738.0	747.6	758.4	764.8
22.5°	618.0	625.2	636.8	649.2	660.8	678.0	693.2	711.6	728.0	742.8	756.8
25°	562.4	572.4	586.0	603.2	618.4	636.8	658.8	679.2	706.8	730.0	760.0
27.5°	502.4	520.8	539.6	557.6	574.4	595.2	618.0	640.8	672.4	709.6	748.8
30°	445.6	460.8	484.4	505.2	524.8	550.4	574.0	599.2	629.2	673.2	717.6
32.5°	386.4	398.8	417.2	442.8	465.6	495.6	516.4	546.4	581.2	627.6	678.0
35°	325.2	342.4	357.2	374.8	392.0	422.0	453.2	486.4	526.4	576.0	631.2
37.5°	271.2	282.0	289.2	307.2	322.4	348.0	384.4	424.4	468.4	518.8	578.0
40°	226.4	233.2	241.2	253.2	266.0	289.2	322.8	367.6	413.6	464.0	523.2
42.5°	195.6	200.0	200.8	210.0	222.0	244.8	271.6	312.8	363.6	416.4	475.6
45°	174.4	174.4	174.0	178.0	187.6	207.2	231.6	268.4	316.8	372.0	433.6
47.5°	159.6	160.8	160.4	162.0	168.4	182.8	204.8	236.0	280.0	334.0	396.0
50°	148.4	150.0	150.4	150.8	153.2	165.2	184.0	209.2	248.4	300.0	362.4
52.5°	139.6	140.0	140.0	139.6	140.4	147.2	162.8	186.0	222.4	268.8	328.8
55°	134.8	135.2	135.2	135.2	135.2	139.6	150.8	169.6	198.8	242.4	296.8
57.5°	129.2	129.2	130.0	130.0	130.0	131.6	139.6	155.2	177.6	212.4	260.8
60°	124.4	125.6	127.2	127.6	127.2	127.2	131.2	141.6	156.4	181.6	222.4
62.5°	117.2	118.8	120.8	121.6	122.0	121.2	123.2	127.6	136.4	149.6	177.2
63°	116.0	117.6	119.2	120.0	120.4	119.6	121.2	124.8	132.0	142.8	167.6
65°	110.8	112.8	113.2	113.6	113.2	112.8	112.4	112.4	114.4	118.4	131.6
67.5°	103.6	104.8	104.8	105.6	103.6	102.8	102.0	101.2	100.0	100.4	105.2
70°	95.2	96.0	95.6	95.2	94.4	93.2	92.4	91.2	88.8	88.0	90.4
72.5°	85.6	86.4	86.4	86.4	84.8	84.0	83.2	82.4	81.6	82.4	83.2
75°	76.8	76.8	77.6	77.2	76.0	75.2	74.8	74.4	74.4	74.4	74.0
77.5°	68.4	68.0	68.0	66.8	66.0	65.6	66.4	66.8	66.4	65.6	65.2
80°	61.2	59.2	57.2	55.6	55.2	56.0	56.8	59.2	58.0	58.0	57.2
82.5°	52.0	47.6	44.8	45.2	44.0	44.4	45.2	48.0	47.2	47.6	49.2
85°	41.6	37.6	33.2	34.0	34.0	33.2	35.2	36.0	36.8	38.8	37.2
87.5°	29.2	25.6	21.2	18.4	19.2	20.0	20.8	20.0	17.6	18.4	18.0
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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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	667.2	667.6	667.6	664.8	664.0	664.8	664.4	664.4	662.0	662.4	661.6
5°	691.6	692.4	690.0	688.0	685.2	684.8	684.4	682.8	681.2	678.0	676.4
7.5°	717.6	714.0	713.2	709.6	708.4	705.2	702.8	700.4	698.4	696.8	695.6
10°	734.0	731.2	730.4	724.0	722.0	718.0	715.6	712.8	710.4	708.0	707.6
12.5°	748.8	744.0	741.2	732.4	728.4	724.0	722.0	719.6	718.8	718.4	720.0
15°	760.4	753.6	748.4	740.4	737.2	734.8	735.2	734.0	738.8	741.6	746.8
17.5°	768.0	765.2	764.0	758.0	760.0	760.0	765.6	768.4	777.2	784.4	791.6
20°	772.0	777.2	787.2	789.2	794.0	799.2	807.6	812.4	821.6	832.0	842.0
22.5°	775.6	797.6	818.0	833.2	844.0	856.0	862.0	872.0	878.4	886.0	901.2
25°	795.6	832.4	868.4	888.0	913.6	930.8	944.4	954.4	965.6	972.0	989.2
27.5°	790.0	836.8	884.8	920.8	960.8	993.2	1022.0	1041.2	1055.6	1078.8	1093.2
30°	764.4	818.8	876.8	928.0	984.0	1036.8	1086.8	1131.6	1170.0	1201.2	1222.4
32.5°	728.0	790.4	858.4	921.6	993.2	1063.6	1135.6	1204.0	1269.2	1320.8	1353.2
35°	687.2	754.4	829.6	904.4	990.4	1082.4	1179.6	1271.6	1366.0	1448.4	1513.2
37.5°	637.6	710.4	792.8	879.6	978.4	1088.8	1211.2	1336.4	1456.8	1581.6	1672.8
40°	585.6	656.8	742.4	841.6	955.6	1085.6	1235.6	1398.0	1572.4	1733.2	1872.0
42.5°	541.2	610.8	700.4	798.4	921.2	1073.6	1252.0	1453.2	1668.0	1876.4	2060.8
45°	497.6	572.0	662.4	766.0	900.0	1068.8	1273.2	1501.2	1746.4	1993.6	2228.8
47.5°	463.2	536.8	628.0	739.2	882.8	1066.0	1293.2	1546.0	1810.4	2080.8	2359.6
50°	430.4	500.8	589.6	706.8	864.8	1061.6	1305.2	1581.6	1860.4	2149.2	2452.4
52.5°	396.8	470.0	556.4	670.0	841.2	1052.8	1308.8	1609.6	1912.0	2214.8	2539.2
55°	362.8	436.0	522.4	640.0	809.2	1035.6	1306.0	1630.0	1966.0	2284.0	2618.4
57.5°	321.2	393.2	483.6	602.0	768.0	1001.2	1292.4	1638.8	1999.6	2348.8	2698.0
60°	274.4	342.4	428.0	548.8	717.6	951.6	1262.0	1626.4	2014.8	2391.6	2782.4
62.5°	215.6	274.8	353.6	473.6	644.4	880.0	1195.6	1571.6	1978.0	2380.8	2818.8
63°	202.4	259.6	340.8	453.6	622.8	855.2	1176.0	1552.8	1961.6	2370.8	2814.4
65°	154.4	196.8	264.0	364.8	526.4	740.8	1072.8	1446.4	1858.4	2271.2	2745.2
67.5°	114.0	136.0	177.2	244.8	370.4	576.4	879.2	1249.2	1639.2	2027.2	2509.6
70°	94.4	102.8	122.0	156.8	229.2	382.4	621.2	950.8	1317.6	1651.6	2087.2
72.5°	84.4	90.4	99.2	114.8	144.8	224.4	404.0	617.2	917.6	1206.4	1574.4
75°	75.6	79.6	86.8	96.0	109.6	140.4	213.6	366.0	560.8	812.8	1080.0
77.5°	66.4	70.4	77.6	84.8	93.6	106.8	132.4	208.4	335.6	474.4	662.8
80°	57.6	59.6	65.6	76.0	82.4	93.2	101.6	130.4	182.8	248.4	353.2
82.5°	47.6	48.0	52.0	60.0	68.0	72.0	74.4	82.0	105.2	131.2	173.2
85°	34.0	32.4	34.8	38.0	44.4	40.8	43.6	46.0	56.0	67.6	124.0
87.5°	15.2	12.0	14.0	15.6	14.0	9.6	14.0	11.6	14.4	28.4	32.0
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°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	0°
2.5°	662.4	660.0	660.0	659.6	660.0	659.2	657.6	657.6	658.8	658.4	658.4	2.5°
5°	676.4	673.2	672.4	672.0	672.0	670.0	667.6	666.4	666.0	664.4	663.2	5°
7.5°	694.8	692.8	694.0	691.6	690.8	690.4	687.2	684.8	681.2	679.6	673.6	7.5°
10°	710.0	708.8	712.0	711.6	712.0	712.0	707.6	705.2	700.0	697.2	689.6	10°
12.5°	723.2	724.0	730.0	730.0	731.2	732.8	730.4	725.2	723.2	720.4	712.4	12.5°
15°	756.8	760.0	764.4	771.6	773.6	774.0	776.0	771.6	766.4	759.2	749.6	15°
17.5°	802.4	808.8	823.6	834.0	836.0	838.0	836.8	836.0	826.4	820.4	810.4	17.5°
20°	859.6	875.2	896.0	910.4	916.8	917.6	925.6	920.0	911.2	899.2	884.8	20°
22.5°	923.6	949.6	976.0	997.2	1009.6	1015.2	1023.6	1015.6	1004.0	996.8	977.6	22.5°
25°	1011.2	1039.6	1070.0	1086.8	1118.4	1127.6	1132.4	1130.0	1118.0	1123.2	1105.6	25°
27.5°	1131.2	1155.6	1198.4	1219.6	1249.2	1266.4	1262.8	1282.8	1286.4	1298.8	1300.8	27.5°
30°	1262.0	1302.4	1360.0	1402.8	1448.0	1477.2	1500.4	1518.0	1538.4	1572.8	1593.6	30°
32.5°	1403.2	1461.6	1535.2	1626.0	1722.0	1800.4	1888.8	1904.0	1949.6	1936.4	1927.6	32.5°
35°	1560.4	1634.0	1728.4	1847.6	1987.2	2116.8	2202.0	2244.8	2262.8	2272.8	2212.0	35°
37.5°	1770.8	1870.4	1975.6	2105.6	2212.4	2333.6	2431.6	2538.0	2586.8	2563.6	2447.2	37.5°
40°	2004.0	2097.2	2239.6	2346.0	2472.0	2671.6	2804.4	2932.4	2972.4	2895.2	2712.8	40°
42.5°	2238.0	2366.0	2520.4	2671.6	2816.4	2997.2	3173.2	3299.6	3343.6	3211.6	2995.2	42.5°
45°	2446.4	2610.4	2792.0	2947.2	3149.6	3386.0	3601.6	3703.2	3695.2	3483.2	3239.6	45°
47.5°	2628.0	2840.8	3045.6	3254.8	3458.8	3725.6	3939.2	4056.0	3973.2	3750.4	3474.4	47.5°
50°	2778.0	3035.2	3282.4	3522.8	3773.2	4056.8	4262.8	4370.8	4244.8	3962.8	3654.4	50°
52.5°	2892.0	3210.8	3495.6	3764.4	4063.6	4370.0	4553.2	4618.4	4422.0	4127.2	3789.2	52.5°
55°	2999.6	3360.0	3675.2	3980.4	4352.8	4627.6	4799.2	4787.2	4533.6	4198.8	3873.6	55°
57.5°	3080.8	3487.2	3822.8	4170.4	4571.6	4865.2	4964.4	4885.2	4580.0	4220.0	3898.0	57.5°
60°	3183.2	3586.4	3954.0	4342.0	4779.6	5028.0	5041.2	4899.2	4566.8	4180.0	3863.6	60°
62.5°	3248.8	3648.4	4037.6	4459.6	4938.0	5119.6	5025.2	4838.8	4490.8	4081.2	3784.8	62.5°
63°	3255.2	3654.4	4044.4	4471.2	4960.4	5123.6	5010.4	4811.6	4468.4	4054.0	3764.0	63°
65°	3226.4	3637.2	4013.2	4450.4	4966.0	5076.4	4902.0	4700.0	4344.8	3915.2	3641.6	65°
67.5°	3025.2	3452.4	3811.2	4221.2	4750.0	4811.2	4636.4	4416.8	4083.2	3616.0	3374.0	67.5°
70°	2664.8	3070.8	3325.2	3706.0	4171.2	4244.4	4088.0	3918.0	3621.6	3231.2	3030.4	70°
72.5°	2146.8	2545.6	2698.4	2990.0	3359.6	3343.6	3233.6	3212.4	3056.4	2728.8	2608.0	72.5°
75°	1604.8	1984.4	2048.8	2167.6	2374.0	2368.8	2394.4	2485.6	2563.6	2370.0	2215.2	75°
77.5°	1058.4	1436.0	1476.0	1614.4	1671.6	1828.4	2012.4	2241.6	2355.2	2276.0	2086.0	77.5°
80°	585.6	982.4	974.4	1028.4	1129.6	1357.6	1636.4	1976.8	2204.0	2147.2	1939.2	80°
82.5°	304.4	620.8	611.6	621.2	715.2	906.8	1118.8	1397.2	1632.0	1637.2	1567.2	82.5°
85°	226.4	445.6	472.0	493.6	556.0	622.8	661.6	750.8	879.6	999.6	1042.4	85°
87.5°	83.2	267.6	333.2	358.0	359.6	351.2	286.0	314.8	286.4	338.8	473.2	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°
661.6	661.6	661.6	661.6	661.6	661.6	661.6
659.2	659.2	658.8	659.6	660.0	661.2	660.8
662.0	660.8	659.6	658.8	658.0	658.4	657.6
669.2	665.2	662.0	659.2	656.8	656.4	654.0
685.2	678.0	672.0	667.6	662.8	660.4	656.0
705.6	697.6	690.0	683.6	678.0	674.8	671.6
741.2	729.6	720.4	713.6	708.0	704.4	701.2
794.0	779.6	765.6	752.4	750.8	742.4	742.4
866.8	847.2	829.2	818.0	812.8	801.6	801.6
967.6	948.4	921.6	908.0	909.2	899.6	904.0
1098.0	1082.0	1054.4	1048.8	1048.8	1038.4	1022.8
1293.6	1288.0	1257.6	1265.2	1249.2	1210.4	1168.4
1584.0	1584.0	1525.2	1482.8	1446.0	1385.6	1311.6
1874.8	1836.8	1746.8	1674.8	1598.4	1506.0	1410.8
2120.4	2019.2	1928.0	1840.0	1725.2	1626.0	1492.4
2327.6	2231.6	2127.2	1993.2	1858.4	1720.0	1548.4
2584.4	2467.6	2310.8	2142.4	1976.8	1786.4	1587.6
2819.2	2672.8	2474.8	2261.6	2050.8	1838.4	1606.4
3040.0	2851.2	2606.8	2350.8	2110.8	1870.4	1614.4
3248.0	2994.8	2710.4	2414.4	2152.0	1887.6	1612.4
3385.2	3100.0	2775.6	2452.8	2176.8	1893.6	1606.8
3471.2	3164.4	2814.0	2474.0	2189.2	1894.8	1606.4
3519.6	3200.8	2834.8	2488.8	2202.8	1902.0	1616.0
3557.2	3229.6	2858.0	2514.0	2235.2	1935.6	1654.8
3592.8	3305.2	2918.4	2560.4	2291.6	1998.4	1740.0
3607.6	3448.8	3041.2	2646.0	2370.4	2099.2	1872.8
3606.4	3476.0	3076.8	2669.6	2391.2	2126.0	1906.8
3562.8	3562.4	3238.8	2782.4	2488.0	2250.0	2048.8
3433.6	3605.6	3418.0	2931.2	2638.4	2454.4	2262.4
3229.2	3553.2	3442.4	2970.4	2745.2	2642.0	2404.8
2877.2	3302.8	3214.0	2803.2	2708.8	2678.8	2408.4
2327.2	2655.2	2617.2	2394.8	2429.6	2491.2	2151.2
1874.8	1864.4	1858.8	1778.0	1926.0	2051.2	1599.2
1566.0	1290.0	1198.0	1166.8	1410.8	1506.8	992.4
1464.0	1158.8	929.6	890.4	1057.2	1108.4	598.4
1118.8	1125.2	974.0	834.8	822.4	752.8	438.4
547.6	556.8	588.4	537.2	460.8	388.4	138.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)