

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: P163258

Luminaire Tested: **LDRL-SL2-E04-E-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163258
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-E04-E-7050-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7299.9 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 97.2
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

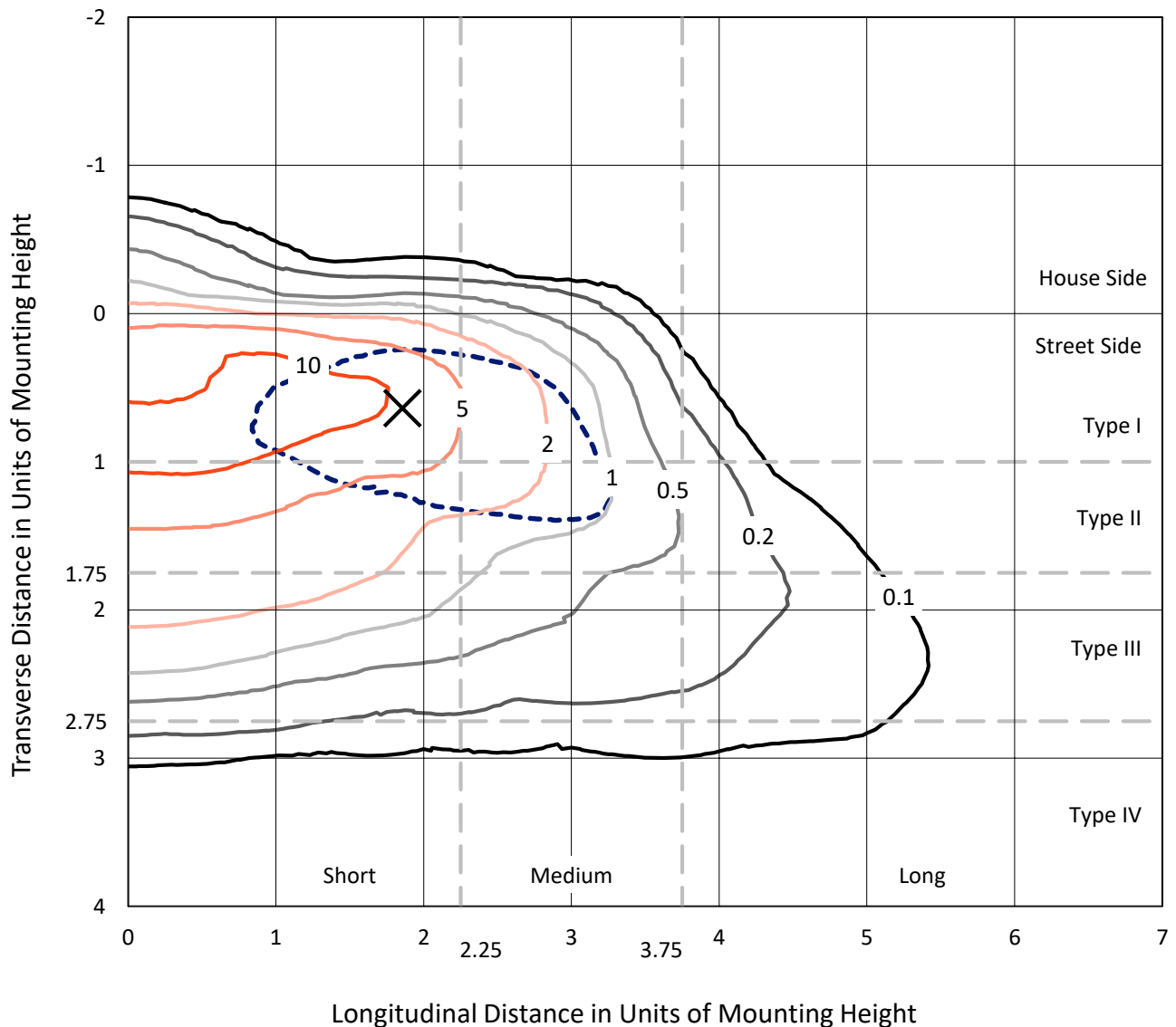


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Iso-Footcandle Lines of Horizontal Illumination

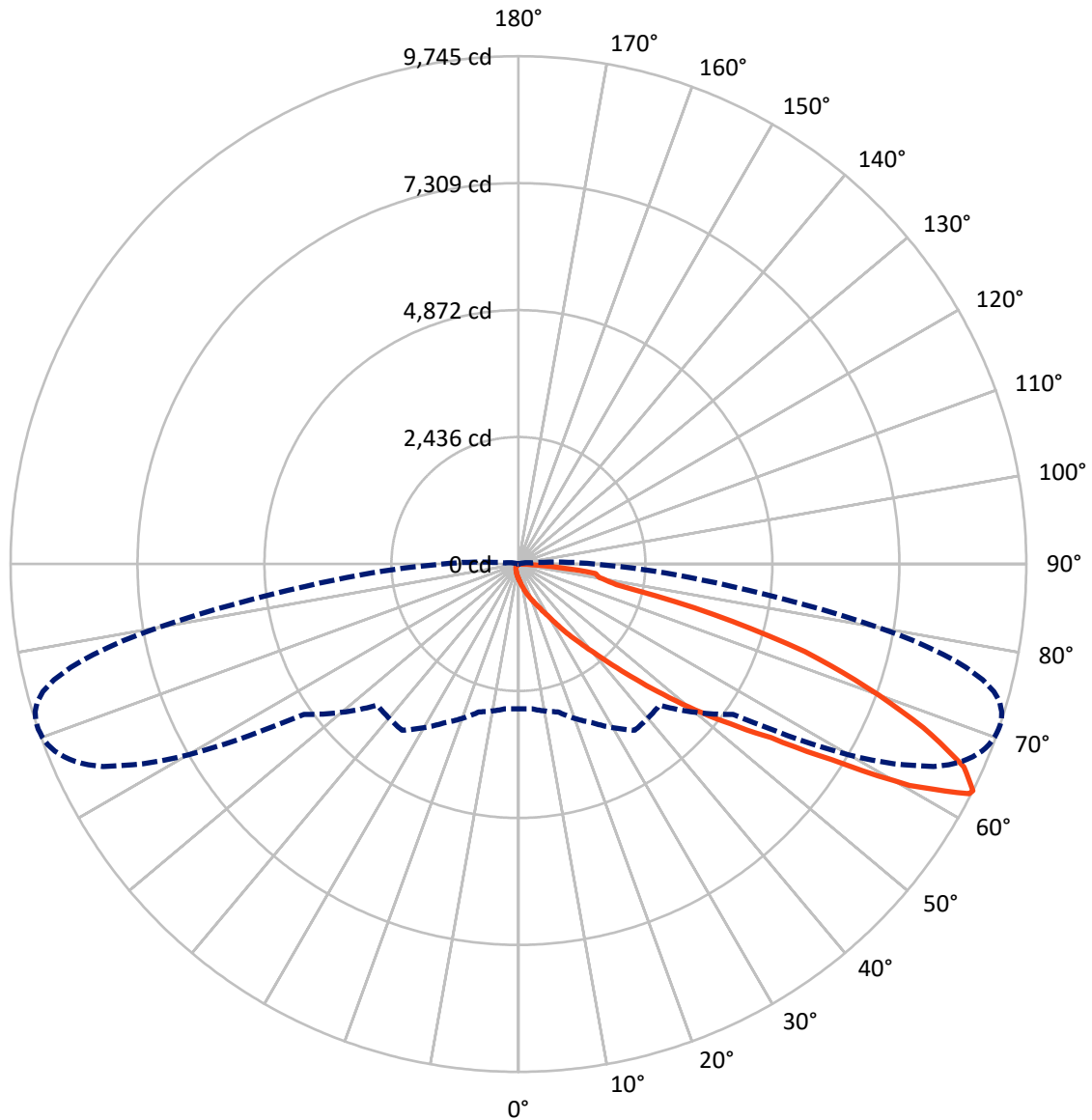
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	155.0	0.0	155.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7144.9	0.0	7144.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	7299.9	0.0	7299.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	0.4
10°-20°	120.0	1.6
20°-30°	243.8	3.3
30°-40°	595.6	8.2
40°-50°	1332.1	18.2
50°-60°	1873.1	25.7
60°-70°	2202.6	30.2
70°-80°	795.3	10.9
80°-90°	106.4	1.5
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°	7299.9	100.0
0°-180°	7299.9	100.0



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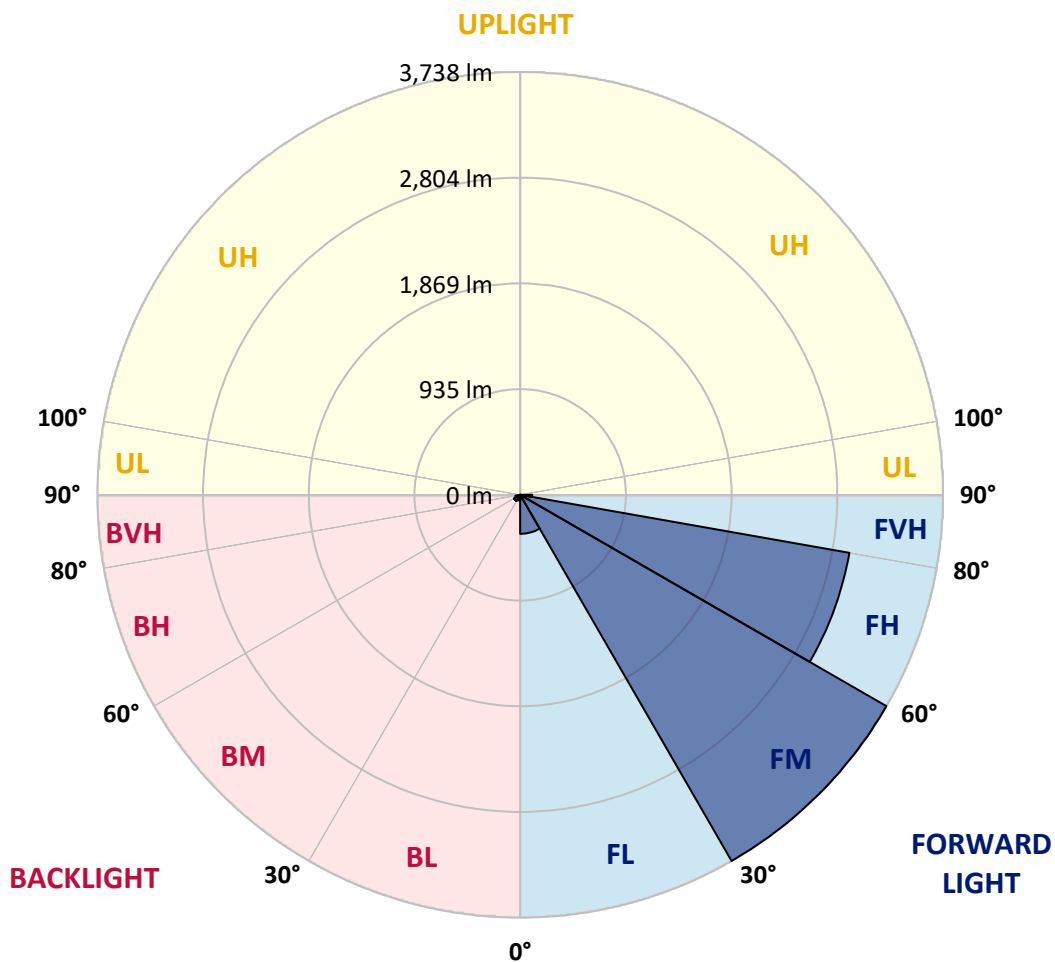
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.9	4.7			
FM	(30°-60°)	3738.4	51.2			
FH	(60°-80°)	2955.5	40.5			G2/5000
FVH	(80°-90°)	106.1	1.5			G2/225
BL	(0°-30°)	49.8	0.7	B0/110		
BM	(30°-60°)	62.4	0.9	B0/220		
BH	(60°-80°)	42.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	366.3	370.2	367.6	360.9	353.0	342.4	333.1	333.1	331.8	327.8	329.1
5°	480.4	481.7	476.4	460.5	445.9	423.3	398.1	395.5	392.8	388.9	387.5
7.5°	591.9	597.2	591.9	574.6	545.4	510.9	471.1	467.2	459.2	459.2	453.9
10°	706.0	706.0	700.7	680.8	654.2	605.2	554.8	548.1	538.8	536.1	528.2
12.5°	787.0	787.0	784.3	773.7	752.4	708.7	647.6	640.9	629.0	625.0	615.7
15°	818.8	818.8	820.1	829.4	830.7	810.9	747.2	741.8	729.9	719.3	715.3
17.5°	838.7	837.4	837.4	850.7	874.6	887.8	846.7	841.4	828.1	822.8	809.6
20°	882.5	879.8	871.9	871.9	894.4	940.9	940.9	939.6	925.0	921.0	914.4
22.5°	947.5	944.9	921.0	901.1	911.7	970.1	1024.5	1021.8	1016.6	1011.2	1007.2
25°	1053.7	1044.4	1003.3	944.9	935.6	997.9	1088.2	1094.8	1098.8	1098.8	1101.5
27.5°	1214.3	1202.3	1129.4	1020.5	979.4	1043.1	1158.5	1171.8	1183.8	1186.4	1198.3
30°	1437.2	1416.0	1311.2	1151.9	1057.7	1109.4	1262.0	1276.6	1293.9	1299.2	1317.8
32.5°	1803.5	1791.6	1690.7	1451.8	1250.1	1239.5	1406.7	1425.3	1447.9	1457.2	1479.7
35°	2360.9	2363.6	2281.2	2066.2	1787.6	1641.6	1665.5	1681.4	1689.4	1717.2	1729.2
37.5°	2739.1	2745.7	2764.3	2679.4	2480.3	2331.7	2144.6	2161.8	2120.7	2124.7	2126.0
40°	2946.2	2967.3	3076.2	3158.4	3142.5	3056.2	2906.3	2915.6	2838.6	2821.4	2737.7
42.5°	3084.1	3112.0	3285.8	3540.6	3670.7	3749.0	3714.5	3710.6	3650.8	3628.2	3557.9
45°	3170.4	3195.6	3414.6	3790.2	4090.1	4318.3	4412.6	4423.2	4372.8	4350.2	4291.7
47.5°	3166.4	3195.6	3430.5	3883.0	4325.0	4689.9	4955.4	4968.6	4999.1	4979.2	4983.2
50°	2991.2	3019.1	3255.3	3725.1	4256.0	4859.8	5345.5	5388.0	5437.0	5470.2	5486.1
52.5°	2778.9	2798.8	3008.5	3454.4	3961.3	4789.4	5576.4	5649.4	5722.4	5784.8	5828.5
55°	2700.6	2723.2	2887.7	3258.0	3725.1	4494.8	5683.9	5791.4	5894.9	5997.1	6080.7
57.5°	2741.8	2763.0	2881.1	3165.1	3584.5	4184.3	5714.4	5881.6	6051.5	6217.4	6382.0
60°	2893.0	2915.6	3016.4	3251.4	3547.3	4005.1	5595.0	5872.4	6155.0	6444.4	6716.4
62.5°	2833.3	2842.6	2991.2	3402.6	3812.7	3852.5	5161.1	5548.5	5979.8	6425.7	6865.0
63°	2776.2	2786.9	2938.2	3361.5	3893.7	3830.0	5027.0	5435.7	5890.9	6371.3	6849.0
65°	2517.5	2518.8	2634.3	2968.6	3803.4	3869.8	4429.8	4820.0	5342.8	5918.8	6522.6
67.5°	1879.2	1869.9	1981.4	2236.2	2986.0	3871.1	3802.1	4021.0	4384.7	4895.6	5437.0
70°	666.2	651.6	832.0	1185.1	1860.5	3166.4	3267.3	3281.9	3382.7	3658.8	3998.5
72.5°	216.3	220.3	265.4	433.9	857.3	2131.3	2958.1	2912.9	2886.4	2885.1	2930.2
75°	86.3	87.6	106.1	192.4	384.8	1027.2	2590.5	2615.7	2624.9	2638.2	2652.9
77.5°	41.1	45.1	59.7	107.5	191.1	508.3	1854.0	2067.6	2189.7	2283.9	2341.0
80°	14.6	17.2	33.2	66.3	88.9	233.5	976.8	1178.5	1357.6	1588.5	1787.6
82.5°	0.0	0.0	6.6	46.5	49.1	94.2	400.8	469.8	537.4	696.7	894.4
85°	0.0	0.0	0.0	13.3	14.6	15.9	135.4	163.2	183.1	213.7	246.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	8.0	19.9	30.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	326.5	325.2	325.2	322.4	321.1	318.5	317.2	313.2	311.9	311.9	311.9
5°	386.1	380.9	378.2	371.6	367.6	366.3	359.6	357.0	353.0	354.3	347.7
7.5°	452.6	443.3	439.3	430.0	427.4	418.0	415.4	408.7	404.8	396.8	394.1
10°	525.5	513.5	507.0	492.4	488.3	481.7	473.7	465.8	459.2	451.2	447.2
12.5°	609.1	598.5	593.2	573.3	564.0	554.8	544.1	533.5	522.9	516.3	507.0
15°	707.4	690.1	684.8	666.2	650.3	638.3	623.7	610.5	602.5	589.2	580.0
17.5°	804.2	787.0	783.0	755.1	737.9	729.9	714.0	696.7	682.2	668.9	654.2
20°	901.1	889.2	878.5	852.0	833.4	820.1	798.9	781.6	769.7	751.1	732.6
22.5°	997.9	986.0	978.1	950.2	932.9	914.4	895.7	877.2	860.0	837.4	816.1
25°	1097.5	1089.6	1085.5	1060.3	1044.4	1027.2	1008.6	987.4	966.1	940.9	918.3
27.5°	1201.0	1203.7	1195.7	1190.4	1173.1	1161.2	1132.0	1117.4	1101.5	1070.9	1043.1
30°	1332.4	1340.3	1337.7	1341.7	1331.1	1323.1	1300.5	1282.0	1263.4	1234.2	1202.3
32.5°	1498.3	1508.9	1514.2	1528.8	1523.5	1520.9	1514.2	1487.7	1474.4	1424.0	1410.7
35°	1754.4	1749.1	1771.6	1783.6	1778.3	1775.7	1767.7	1753.1	1737.2	1701.3	1668.1
37.5°	2087.5	2092.8	2100.8	2076.9	2061.0	2059.6	2035.7	2021.2	1998.6	1958.8	1919.0
40°	2697.9	2664.8	2627.7	2526.8	2483.0	2457.7	2387.5	2367.5	2329.0	2274.6	2233.5
42.5°	3491.5	3458.4	3346.9	3178.4	3088.1	2963.4	2906.3	2836.0	2781.6	2692.7	2644.9
45°	4279.8	4184.3	4171.0	3974.6	3863.2	3698.6	3596.4	3478.3	3354.9	3238.1	3153.2
47.5°	4944.7	4923.5	4858.5	4739.0	4635.5	4497.5	4366.1	4184.3	4056.9	3891.0	3738.4
50°	5476.9	5475.5	5451.7	5382.6	5296.4	5185.0	5069.5	4915.5	4770.9	4567.8	4404.6
52.5°	5875.0	5896.2	5904.2	5882.9	5849.8	5751.6	5693.2	5564.4	5442.4	5269.8	5093.3
55°	6167.0	6245.3	6285.1	6330.2	6320.9	6286.4	6283.7	6200.1	6144.4	6007.7	5882.9
57.5°	6527.9	6656.6	6780.1	6999.0	7007.0	7084.0	7123.8	7163.6	7174.2	7119.8	7078.6
60°	6987.1	7249.9	7483.4	7941.2	8060.7	8249.1	8371.2	8504.0	8616.7	8626.0	8623.4
62.5°	7310.9	7715.7	8092.5	8772.1	9004.3	9221.9	9385.1	9513.9	9592.1	9671.7	9708.9
63°	7320.2	7763.4	8164.2	8864.9	9109.1	9316.1	9471.4	9590.8	9673.1	9720.9	9744.8
65°	7095.9	7633.4	8111.2	8809.2	9038.8	9247.1	9328.0	9406.3	9446.2	9464.7	9394.4
67.5°	6014.4	6539.9	7097.2	7877.5	8074.0	8323.4	8389.8	8429.7	8448.2	8444.2	8384.5
70°	4497.5	4938.1	5557.8	6449.6	6709.7	6953.9	7105.2	7170.3	7191.4	7184.8	7095.9
72.5°	3139.9	3398.6	3909.6	4902.2	5256.6	5569.8	5756.9	5853.7	5873.7	5833.9	5751.6
75°	2636.9	2650.2	2765.6	3308.4	3640.2	3974.6	4185.6	4246.7	4206.9	4086.1	3876.4
77.5°	2354.2	2383.4	2383.4	2464.4	2529.4	2622.3	2642.3	2493.6	2321.1	2098.1	1917.7
80°	1974.7	2076.9	2148.6	2208.3	2214.9	2196.4	2147.2	2063.6	1930.9	1761.0	1572.6
82.5°	1199.7	1401.4	1483.7	1791.6	1942.9	2045.1	2037.1	1925.6	1824.7	1648.3	1487.7
85°	302.6	326.5	354.3	460.5	516.3	630.4	702.0	735.2	747.2	686.1	621.1
87.5°	29.2	19.9	33.2	25.2	35.8	26.5	35.8	33.2	41.1	43.8	47.8
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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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	309.2	307.9	306.5	305.2	303.9	302.6	300.0	300.0	297.2	295.9	294.6
5°	343.7	341.1	339.8	337.1	333.1	330.4	326.5	321.1	317.2	315.9	313.2
7.5°	387.5	380.9	378.2	374.2	368.9	360.9	355.7	351.7	345.0	341.1	333.1
10°	436.6	430.0	422.0	414.1	406.1	396.8	390.2	384.8	374.2	368.9	359.6
12.5°	499.0	487.0	477.8	467.2	456.5	445.9	437.9	422.0	412.7	400.8	392.8
15°	562.7	552.0	541.5	528.2	512.2	495.0	487.0	472.4	460.5	441.9	431.3
17.5°	639.6	619.8	603.8	587.9	573.3	557.4	541.5	518.9	501.6	485.7	464.5
20°	715.3	691.4	674.2	652.9	631.7	606.5	587.9	572.0	548.1	526.8	504.3
22.5°	796.3	772.4	744.5	723.3	694.1	674.2	648.9	622.4	598.5	570.7	542.8
25°	894.4	869.2	837.4	809.6	776.3	748.5	717.9	687.4	658.3	626.4	590.5
27.5°	1015.2	988.7	954.2	921.0	877.2	842.7	813.5	772.4	735.2	695.4	654.2
30°	1167.9	1138.6	1096.2	1048.4	1004.6	966.1	925.0	870.5	829.4	781.6	728.5
32.5°	1366.9	1332.4	1275.3	1230.2	1175.8	1125.4	1068.3	1013.9	955.5	893.1	832.0
35°	1617.7	1585.9	1519.5	1453.1	1393.5	1333.7	1262.0	1199.7	1117.4	1041.8	963.5
37.5°	1877.9	1820.7	1759.7	1688.1	1613.7	1542.0	1454.4	1368.3	1274.0	1191.8	1093.5
40°	2175.1	2106.1	2055.7	1978.7	1873.8	1771.6	1690.7	1583.2	1465.1	1355.0	1239.5
42.5°	2582.5	2505.5	2415.3	2298.5	2222.9	2103.4	1998.6	1871.2	1715.9	1592.5	1453.1
45°	3053.6	2948.8	2861.2	2748.4	2656.8	2508.2	2386.1	2216.2	2061.0	1899.0	1729.2
47.5°	3591.1	3461.0	3333.6	3222.1	3076.2	2930.2	2774.9	2594.5	2395.4	2217.5	2015.8
50°	4208.2	4023.7	3847.2	3703.9	3503.5	3334.9	3166.4	2963.4	2743.1	2538.7	2309.1
52.5°	4894.3	4680.6	4447.1	4226.7	3994.5	3778.2	3575.2	3341.6	3096.0	2846.6	2590.5
55°	5722.4	5561.8	5287.1	5007.1	4696.5	4407.2	4145.8	3856.5	3557.9	3230.1	2960.7
57.5°	7019.0	6940.7	6711.1	6431.1	6026.3	5674.6	5231.3	4877.0	4444.4	3993.2	3645.5
60°	8776.0	8679.1	8550.4	8323.4	8002.3	7524.6	7036.2	6485.5	5827.2	5202.2	4608.9
62.5°	9712.9	9678.4	9573.6	9416.9	9117.1	8740.2	8247.8	7642.7	6899.5	6140.4	5383.9
63°	9740.8	9697.0	9606.7	9447.5	9183.4	8818.4	8335.4	7747.5	7020.3	6246.6	5474.2
65°	9363.9	9346.7	9255.1	9081.2	8900.8	8622.1	8247.8	7742.2	7131.8	6400.5	5632.2
67.5°	8304.9	8253.1	8112.5	8059.4	7933.3	7739.5	7454.2	7106.6	6669.9	6095.3	5431.7
70°	7024.2	6947.3	6770.7	6676.6	6522.6	6400.5	6226.7	5978.5	5709.1	5308.3	4813.3
72.5°	5666.6	5507.4	5345.5	5100.0	4885.0	4667.4	4474.9	4299.7	4003.8	3841.9	3466.3
75°	3680.0	3390.7	3113.4	2741.8	2407.3	2111.4	1823.4	1677.4	1373.5	1250.1	1073.6
77.5°	1746.4	1584.6	1366.9	1198.3	983.3	802.9	655.6	492.4	386.1	302.6	230.9
80°	1409.4	1272.7	1141.3	988.7	826.8	659.6	505.6	378.2	268.1	185.8	131.3
82.5°	1256.8	1108.1	946.2	841.4	731.2	598.5	491.1	400.8	295.9	216.3	147.3
85°	488.3	411.4	317.2	258.7	201.7	165.9	150.0	103.5	80.9	63.7	49.1
87.5°	42.4	34.5	27.8	18.6	19.9	10.6	11.9	8.0	6.6	6.6	5.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	293.3	292.0	290.6	288.0	288.0	285.3	284.0	282.6	276.1	261.5	249.5
5°	307.9	305.2	302.6	298.6	295.9	292.0	289.3	285.3	270.7	242.8	218.9
7.5°	329.1	323.8	319.8	311.9	307.9	302.6	298.6	292.0	268.1	225.6	192.4
10°	354.3	345.0	338.4	329.1	321.1	314.5	307.9	298.6	265.4	207.0	168.5
12.5°	384.8	374.2	360.9	350.4	339.8	330.4	321.1	309.2	261.5	191.1	150.0
15°	415.4	399.4	390.2	375.6	360.9	347.7	334.4	323.8	262.8	173.9	134.1
17.5°	449.8	433.9	414.1	398.1	382.2	365.0	349.0	327.8	256.1	160.6	122.1
20°	483.1	460.5	441.9	422.0	399.4	378.2	358.3	339.8	250.8	147.3	111.5
22.5°	518.9	492.4	468.5	443.3	415.4	391.5	367.6	343.7	241.5	135.4	102.2
25°	562.7	532.2	497.6	467.2	437.9	408.7	378.2	349.0	232.2	124.8	95.6
27.5°	615.7	575.9	541.5	503.0	461.8	424.6	391.5	359.6	223.0	116.8	88.9
30°	683.5	637.0	587.9	538.8	495.0	452.6	406.1	366.3	213.7	108.8	82.3
32.5°	773.7	715.3	655.6	598.5	540.1	485.7	436.6	384.8	208.3	102.2	75.6
35°	893.1	817.5	744.5	672.8	602.5	536.1	472.4	414.1	208.3	94.2	67.6
37.5°	1005.9	918.3	825.5	736.5	652.9	575.9	500.3	430.0	197.8	87.6	61.1
40°	1128.1	1023.2	914.4	809.6	708.7	613.1	526.8	445.9	188.5	79.6	54.4
42.5°	1315.1	1182.4	1040.5	918.3	797.6	679.4	572.0	476.4	176.5	71.7	47.8
45°	1560.7	1392.1	1224.9	1076.3	922.3	777.7	650.3	532.2	173.9	65.0	41.1
47.5°	1823.4	1624.4	1427.9	1238.1	1057.7	889.2	736.5	594.6	173.9	58.4	35.8
50°	2084.9	1835.3	1625.7	1405.4	1202.3	1003.3	821.5	659.6	175.2	53.1	29.2
52.5°	2321.1	2054.3	1819.4	1564.6	1340.3	1109.4	911.7	723.3	172.5	46.5	23.9
55°	2648.8	2335.7	2063.6	1782.3	1519.5	1259.4	1035.1	818.8	173.9	41.1	19.9
57.5°	3252.7	2885.1	2557.3	2188.4	1885.8	1550.0	1278.0	1015.2	189.8	34.5	14.6
60°	4119.3	3641.5	3181.0	2731.2	2346.3	1946.8	1593.8	1284.6	223.0	27.8	10.6
62.5°	4701.9	4076.8	3527.4	3031.0	2583.8	2165.8	1780.9	1429.2	245.5	22.6	6.6
63°	4761.5	4115.3	3563.2	3051.0	2594.5	2176.4	1788.9	1439.9	246.8	21.3	6.6
65°	4874.4	4181.7	3583.2	3054.9	2583.8	2161.8	1783.6	1438.5	249.5	17.2	5.3
67.5°	4745.6	4079.5	3467.7	2940.8	2491.0	2075.5	1717.2	1385.5	248.2	11.9	3.9
70°	4244.0	3691.9	3154.5	2663.4	2254.7	1879.2	1563.3	1263.4	228.3	8.0	2.6
72.5°	3116.0	2740.4	2323.8	1969.4	1698.7	1410.7	1203.7	948.9	176.5	5.3	1.3
75°	923.7	841.4	707.4	623.7	550.7	455.2	404.8	315.9	90.2	2.6	0.0
77.5°	184.5	167.2	150.0	136.7	128.7	110.2	104.8	86.3	37.2	1.3	0.0
80°	96.9	79.6	67.6	59.7	51.7	42.4	35.8	29.2	6.6	0.0	0.0
82.5°	92.9	62.4	45.1	37.2	31.9	25.2	19.9	14.6	3.9	0.0	0.0
85°	34.5	26.5	19.9	15.9	13.3	11.9	9.3	8.0	0.0	0.0	0.0
87.5°	5.3	3.9	3.9	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0
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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CATALOG NUMBER: LDRL-SL2-E04-E-7050-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	237.6	226.9	221.6	215.0	215.0	213.7	216.3
5°	197.8	183.1	172.5	164.6	165.9	161.9	163.2
7.5°	167.2	152.6	143.3	138.0	136.7	135.4	135.4
10°	144.6	131.3	123.4	119.4	118.1	118.1	118.1
12.5°	128.7	115.4	108.8	106.1	106.1	104.8	104.8
15°	115.4	104.8	98.2	95.6	95.6	94.2	95.6
17.5°	104.8	94.2	88.9	86.3	86.3	85.0	85.0
20°	95.6	86.3	80.9	77.0	77.0	75.6	77.0
22.5°	87.6	78.3	71.7	69.0	67.6	66.3	67.6
25°	79.6	70.3	63.7	59.7	58.4	58.4	57.1
27.5°	73.0	63.7	55.7	51.7	50.4	50.4	49.1
30°	66.3	55.7	47.8	43.8	42.4	42.4	42.4
32.5°	59.7	47.8	41.1	37.2	35.8	35.8	35.8
35°	53.1	41.1	34.5	30.5	29.2	29.2	29.2
37.5°	45.1	34.5	26.5	23.9	22.6	21.3	21.3
40°	38.5	26.5	19.9	17.2	14.6	14.6	14.6
42.5°	31.9	21.3	14.6	10.6	9.3	8.0	9.3
45°	26.5	15.9	9.3	5.3	3.9	3.9	3.9
47.5°	21.3	10.6	3.9	1.3	1.3	1.3	1.3
50°	15.9	6.6	1.3	0.0	0.0	1.3	1.3
52.5°	11.9	3.9	0.0	0.0	0.0	0.0	0.0
55°	6.6	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	3.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)