

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: P145743

Luminaire Tested: **LDRL-SLL-F03-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145743  
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-SLL-F03-E-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5629.8 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

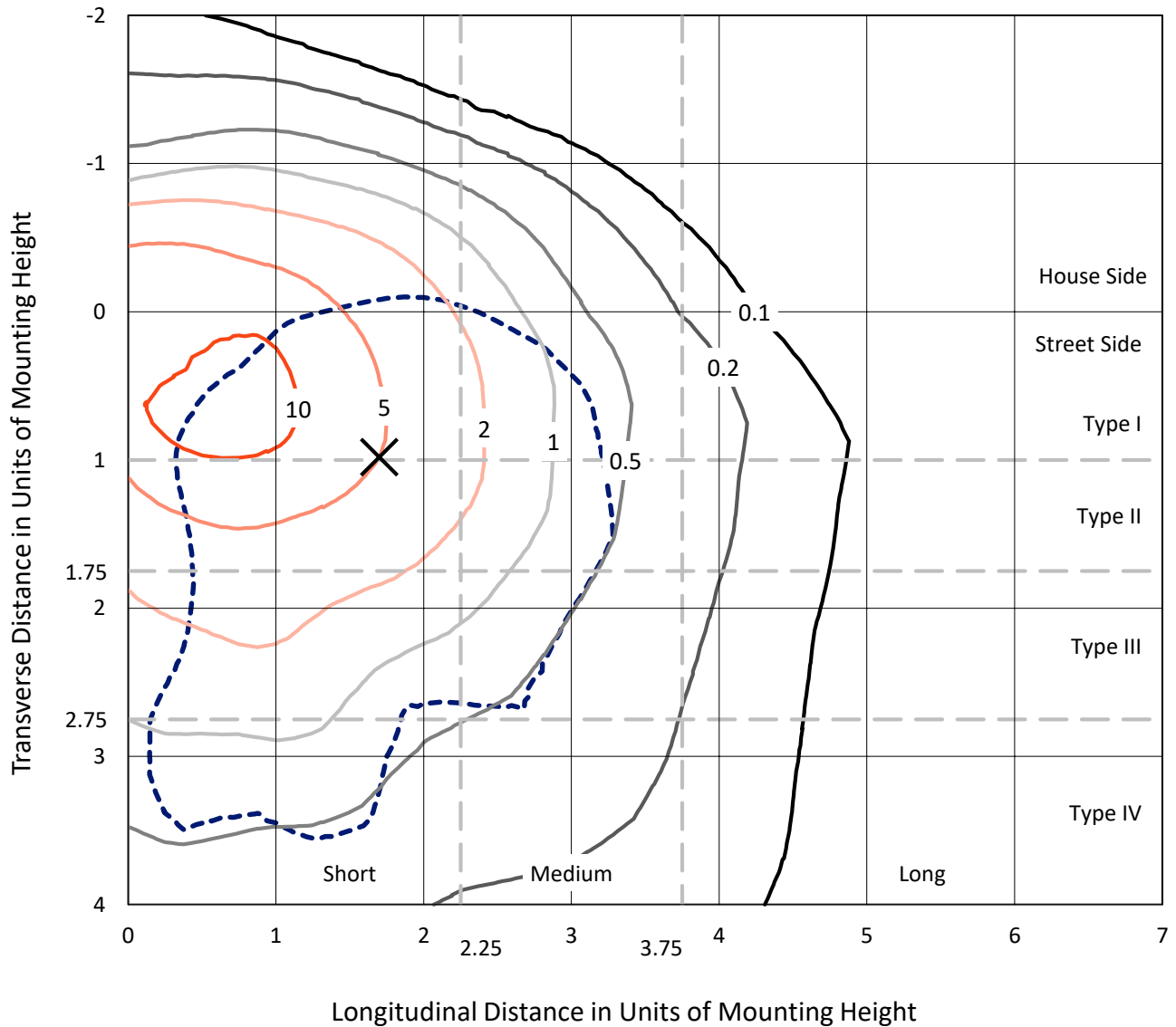
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

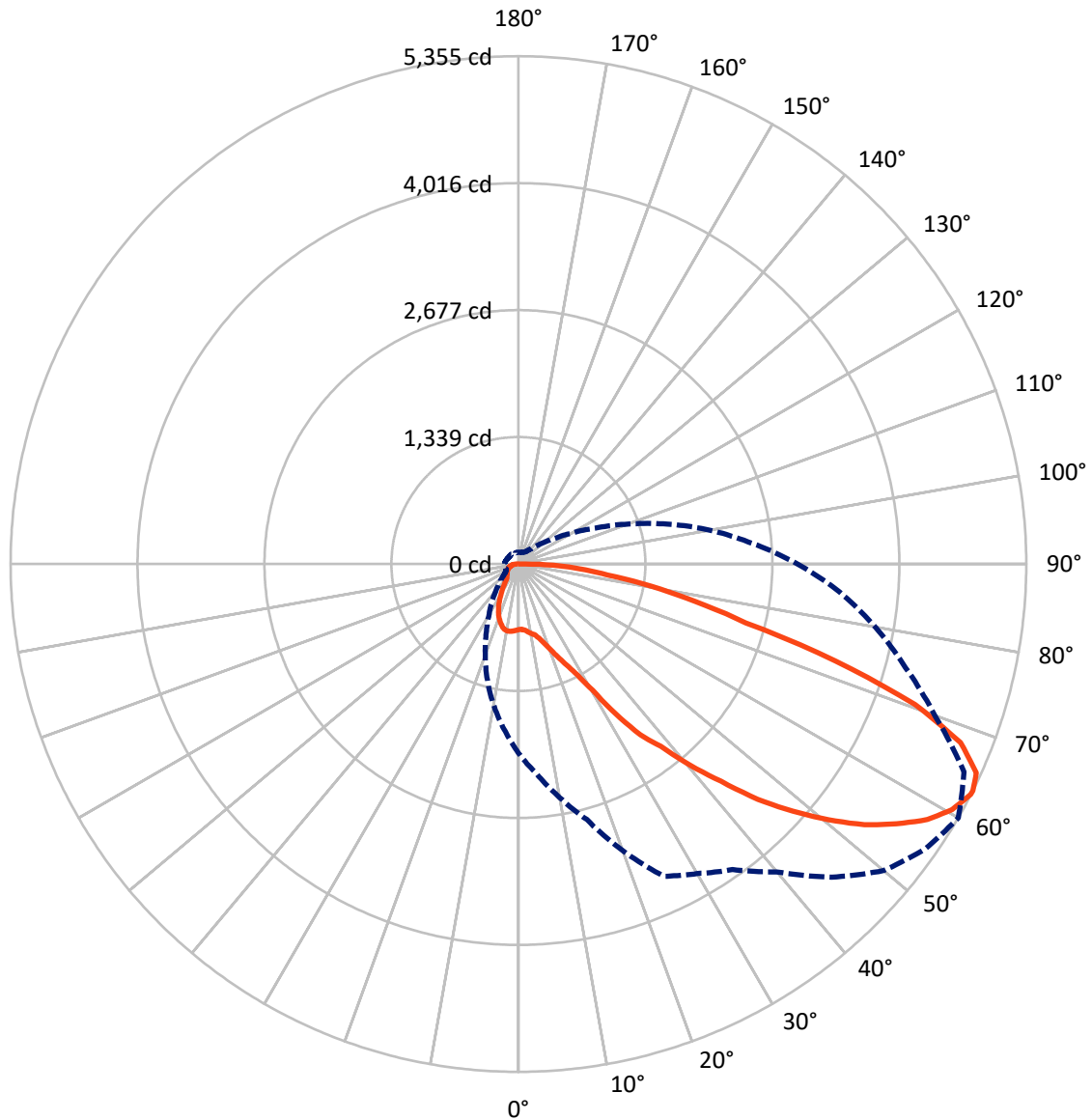
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1178.5	0.0	1178.5
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	4451.4	0.0	4451.4
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	5629.8	0.0	5629.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.9	1.2
10°-20°	211.9	3.8
20°-30°	374.8	6.7
30°-40°	591.7	10.5
40°-50°	870.1	15.5
50°-60°	1146.2	20.4
60°-70°	1277.5	22.7
70°-80°	839.4	14.9
80°-90°	250.3	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°	5629.8	100.0
0°-180°	5629.8	100.0

**Coefficient of Utilization**



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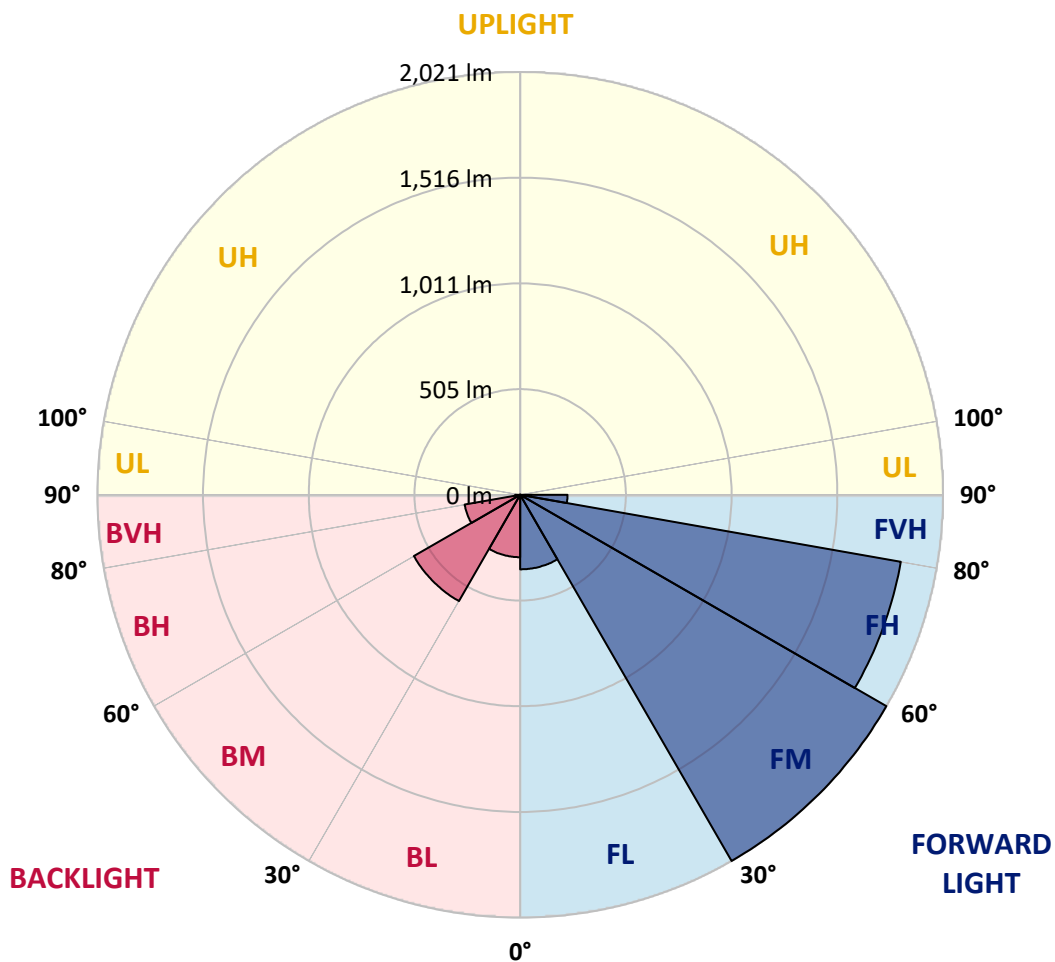
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.3	6.3			
FM	(30°-60°)	2021.3	35.9			
FH	(60°-80°)	1847.5	32.8			G2/5000
FVH	(80°-90°)	226.2	4.0			G3/500
BL	(0°-30°)	298.3	5.3	B1/500		
BM	(30°-60°)	586.7	10.4	B1/1000		
BH	(60°-80°)	269.3	4.8	B1/500		G1/500
BVH	(80°-90°)	24.1	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	690.6	691.0	689.8	689.4	688.5	688.9	688.9	688.1	688.1	688.5	687.3
5°	687.3	688.1	687.7	688.5	689.4	690.6	691.9	693.1	694.4	696.0	696.5
7.5°	683.5	686.0	686.4	688.9	691.9	695.2	699.4	704.0	710.3	711.9	715.7
10°	685.6	690.2	692.7	697.7	702.3	708.6	716.1	720.7	728.6	731.6	737.0
12.5°	701.9	705.2	708.6	714.4	721.1	729.1	737.4	744.5	752.9	755.8	757.9
15°	732.8	736.2	739.9	745.8	752.9	762.5	774.6	783.4	793.4	801.0	806.4
17.5°	775.9	775.9	784.7	786.3	800.1	814.8	829.8	847.0	857.4	863.7	873.7
20°	837.8	837.8	849.5	854.9	866.6	885.4	905.9	924.7	939.8	952.3	961.5
22.5°	944.8	940.2	950.2	949.0	963.2	991.2	1011.2	1021.7	1041.8	1049.3	1061.4
25°	1068.9	1085.2	1096.1	1096.1	1102.0	1130.8	1147.5	1155.5	1173.9	1168.4	1181.0
27.5°	1221.1	1265.0	1305.5	1322.3	1314.3	1346.1	1351.9	1359.5	1357.4	1344.4	1340.7
30°	1370.8	1448.1	1511.2	1549.7	1594.0	1655.4	1655.4	1665.5	1643.7	1607.8	1586.5
32.5°	1474.4	1573.9	1670.5	1750.3	1825.6	1919.6	1959.4	2014.5	2023.7	2037.5	1989.9
35°	1559.7	1699.3	1803.0	1923.0	2015.0	2110.3	2216.0	2311.8	2375.3	2364.9	2346.0
37.5°	1618.2	1797.6	1942.2	2083.1	2223.1	2332.3	2432.6	2557.6	2679.2	2703.5	2652.5
40°	1659.2	1867.0	2066.0	2239.0	2415.0	2578.9	2701.0	2835.2	3025.8	3106.5	3064.7
42.5°	1678.9	1921.3	2143.3	2363.6	2586.4	2793.4	2946.4	3130.3	3356.5	3494.4	3448.4
45°	1687.2	1954.8	2206.0	2456.8	2724.4	2979.8	3177.1	3385.7	3640.3	3861.9	3870.2
47.5°	1685.1	1972.7	2249.1	2523.3	2832.6	3129.9	3394.5	3631.1	3919.6	4152.4	4238.9
50°	1679.3	1979.0	2275.0	2563.4	2900.8	3239.8	3537.9	3819.2	4141.5	4436.3	4567.9
52.5°	1678.9	1980.3	2287.9	2585.6	2940.9	3307.1	3627.8	3960.1	4313.4	4621.4	4826.7
55°	1688.9	1987.8	2302.2	2601.1	2962.7	3345.2	3678.3	4048.3	4388.2	4738.1	5003.1
57.5°	1729.4	2022.9	2336.0	2627.4	2986.9	3375.3	3717.6	4073.8	4410.3	4786.6	5105.5
60°	1818.5	2088.5	2395.0	2675.9	3050.0	3454.3	3754.8	4037.9	4368.5	4772.8	5120.2
62.5°	1957.3	2193.9	2477.3	2765.3	3178.4	3604.4	3770.3	3955.5	4265.3	4693.4	5057.0
63°	1992.8	2221.9	2499.1	2790.0	3215.6	3632.8	3769.1	3933.8	4236.8	4669.9	5028.6
65°	2141.2	2351.5	2600.2	2907.9	3384.9	3723.1	3723.5	3805.8	4091.8	4540.8	4912.0
67.5°	2364.4	2565.1	2757.4	3063.4	3572.2	3768.2	3588.5	3526.2	3779.1	4267.4	4616.0
70°	2513.3	2761.2	2869.0	3104.4	3597.7	3713.5	3374.8	3167.1	3376.9	3784.9	4094.7
72.5°	2517.0	2799.6	2831.0	2929.6	3359.0	3451.8	3007.0	2725.6	2851.9	3194.3	3357.3
75°	2248.2	2603.6	2539.2	2502.8	2735.2	2775.0	2432.2	2315.1	2476.9	2679.2	2597.7
77.5°	1671.3	2143.7	2012.9	1858.2	1942.6	1948.5	1959.4	2180.1	2378.7	2461.4	2342.7
80°	1037.2	1574.8	1474.4	1219.4	1252.0	1348.2	1636.6	2026.7	2244.0	2303.4	2066.0
82.5°	625.4	1158.4	1104.9	930.6	971.5	1211.1	1530.0	1637.9	1711.0	1705.6	1460.2
85°	458.2	786.8	859.5	872.5	1017.9	1176.0	1169.3	1089.4	1044.7	919.3	784.7
87.5°	144.2	405.9	481.6	561.4	614.9	581.9	572.3	494.5	354.1	299.3	329.0
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°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	687.3	688.9	689.8	689.4	689.8	689.8	692.3	691.4	692.3	691.9	694.4
5°	697.7	700.2	702.3	702.3	702.7	703.6	706.9	706.9	708.6	711.9	713.6
7.5°	718.2	721.5	722.0	722.8	725.3	724.0	726.1	727.0	728.2	729.9	732.0
10°	739.5	744.1	744.1	743.7	744.1	740.8	742.0	739.5	739.9	742.4	744.9
12.5°	763.3	765.9	764.2	762.9	762.9	756.7	755.8	752.5	750.8	751.2	752.1
15°	811.0	808.9	808.5	806.4	798.9	794.3	790.9	780.5	775.0	772.1	767.1
17.5°	874.5	875.8	873.7	871.6	860.7	845.3	838.6	827.3	819.8	812.3	803.1
20°	967.3	959.0	958.2	951.5	936.4	914.7	898.4	880.0	869.5	858.7	849.0
22.5°	1069.8	1061.0	1055.1	1042.2	1020.0	992.4	965.3	941.8	926.0	918.0	911.3
25°	1183.5	1178.5	1168.8	1135.8	1118.3	1086.5	1056.8	1033.8	1015.8	1009.2	997.4
27.5°	1319.8	1323.5	1305.5	1274.6	1252.5	1207.7	1182.2	1142.5	1127.5	1103.2	1088.2
30°	1568.1	1543.8	1513.3	1466.1	1421.3	1361.1	1318.9	1277.5	1255.4	1222.8	1182.6
32.5°	1974.0	1881.6	1799.7	1699.3	1604.4	1527.5	1466.5	1414.2	1380.4	1326.4	1258.3
35°	2301.3	2212.3	2076.8	1930.9	1806.4	1707.7	1630.8	1581.5	1513.7	1427.6	1329.0
37.5°	2541.3	2438.9	2312.2	2200.6	2064.7	1954.8	1850.7	1748.2	1652.9	1522.5	1396.7
40°	2930.9	2792.1	2583.5	2451.8	2340.6	2191.8	2094.4	1956.4	1811.4	1643.3	1461.1
42.5°	3316.3	3132.4	2943.4	2792.1	2634.1	2472.7	2338.9	2153.7	1961.0	1743.2	1518.7
45°	3764.0	3538.7	3291.7	3080.1	2917.9	2728.1	2556.7	2329.3	2083.5	1825.2	1568.9
47.5°	4116.9	3893.6	3614.8	3401.6	3183.0	2968.9	2746.5	2466.0	2174.7	1892.1	1615.7
50°	4455.1	4239.8	3943.4	3681.7	3430.4	3172.1	2903.3	2563.0	2246.1	1944.3	1652.9
52.5°	4758.6	4567.1	4246.9	3934.2	3653.3	3355.6	3022.4	2653.7	2314.7	1998.2	1682.2
55°	5015.7	4836.3	4549.1	4159.9	3841.0	3511.5	3134.9	2736.5	2387.0	2054.7	1703.5
57.5°	5188.3	5084.6	4777.8	4358.5	3995.2	3644.5	3219.8	2819.7	2454.7	2089.8	1712.7
60°	5268.6	5254.8	4995.2	4537.8	4132.3	3748.2	3326.8	2907.9	2499.5	2105.7	1699.8
62.5°	5251.9	5350.5	5160.7	4660.7	4219.7	3813.0	3395.3	2945.9	2488.2	2067.2	1642.5
63°	5236.4	5354.7	5184.1	4672.9	4226.8	3819.2	3402.0	2941.3	2477.7	2050.1	1622.8
65°	5123.1	5305.4	5190.0	4651.1	4194.2	3801.2	3371.9	2869.0	2373.6	1942.2	1511.6
67.5°	4845.5	5028.2	4964.2	4411.6	3983.1	3608.1	3161.6	2622.8	2118.6	1713.1	1305.5
70°	4272.4	4435.8	4359.3	3873.2	3475.2	3209.3	2785.0	2181.3	1726.1	1377.0	993.7
72.5°	3379.4	3494.4	3511.1	3124.9	2820.1	2660.4	2243.6	1645.4	1260.8	959.0	645.0
75°	2502.4	2475.6	2481.1	2265.4	2141.2	2073.9	1677.2	1128.7	849.5	586.1	382.5
77.5°	2103.2	1910.9	1747.0	1687.2	1542.6	1500.8	1106.1	692.7	495.8	350.7	217.8
80°	1710.2	1418.8	1180.5	1074.8	1018.3	1026.7	612.0	369.1	259.6	191.0	136.3
82.5°	1169.3	947.7	747.5	649.2	639.2	648.8	318.1	181.0	137.1	109.9	85.7
85°	691.4	650.9	581.1	515.9	493.3	465.7	236.6	129.6	70.6	58.5	48.1
87.5°	298.9	367.0	375.8	374.1	348.2	279.7	87.0	33.4	29.7	15.0	12.1
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°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	694.4	694.8	693.9	694.8	697.7	697.7	697.3	698.1	698.5	701.1	700.2
5°	715.3	715.7	716.1	719.0	721.1	723.6	722.8	723.6	725.3	725.7	726.6
7.5°	734.5	737.0	740.4	741.6	745.4	746.2	750.0	750.4	751.2	749.5	747.9
10°	747.9	750.4	754.6	756.7	763.3	764.2	767.1	767.9	769.6	768.4	767.1
12.5°	754.6	756.7	761.3	765.4	774.6	777.6	782.6	785.5	787.6	786.3	782.2
15°	768.4	767.9	770.5	773.8	782.2	787.6	794.7	798.5	801.0	798.9	793.4
17.5°	800.1	794.3	794.3	792.2	798.5	799.7	802.6	804.7	803.9	797.6	788.8
20°	844.0	835.2	829.8	824.8	822.7	812.3	806.8	799.3	792.6	781.3	771.3
22.5°	900.9	894.6	882.1	870.8	854.9	833.6	810.6	790.9	776.3	760.8	743.7
25°	987.0	972.8	954.8	928.1	907.6	869.9	831.5	794.3	762.9	738.7	709.8
27.5°	1068.1	1038.0	1004.1	962.3	924.7	874.5	825.6	782.6	741.6	702.7	669.7
30°	1135.8	1083.6	1028.4	969.9	916.3	855.7	798.9	750.0	703.6	657.6	626.2
32.5°	1186.8	1111.6	1038.0	963.2	897.1	826.0	760.8	708.6	655.9	607.4	571.0
35°	1232.8	1131.2	1035.1	945.2	867.0	788.4	718.2	659.7	602.0	550.1	508.3
37.5°	1265.8	1137.9	1022.5	919.3	828.6	742.4	666.4	604.1	542.2	489.5	443.5
40°	1291.3	1134.6	998.7	879.6	775.9	686.4	612.0	546.8	484.9	432.3	384.2
42.5°	1308.5	1122.0	962.7	834.4	732.0	638.3	565.6	497.1	435.2	380.0	326.9
45°	1330.6	1117.0	940.6	800.5	692.3	597.8	520.0	453.2	388.8	331.1	280.5
47.5°	1351.5	1114.1	922.6	772.5	656.3	561.0	484.1	413.9	349.1	292.6	246.6
50°	1364.1	1109.5	903.8	738.7	616.2	523.4	449.8	378.7	313.5	259.6	218.6
52.5°	1367.8	1100.3	879.1	700.2	581.5	491.2	414.7	343.6	280.9	232.4	194.4
55°	1364.9	1082.3	845.7	668.9	546.0	455.7	379.2	310.2	253.3	207.8	177.2
57.5°	1350.7	1046.4	802.6	629.2	505.4	410.9	335.7	272.6	222.0	185.6	162.2
60°	1318.9	994.5	750.0	573.6	447.3	357.8	286.8	232.4	189.8	163.5	148.0
62.5°	1249.5	919.7	673.5	495.0	369.5	287.2	225.3	185.2	156.3	142.6	133.4
63°	1229.0	893.8	650.9	474.1	356.2	271.3	211.5	175.2	149.2	138.0	130.4
65°	1121.2	774.2	550.1	381.3	275.9	205.7	161.4	137.5	123.7	119.6	117.5
67.5°	918.9	602.4	387.1	255.8	185.2	142.1	119.1	109.9	104.9	104.5	105.8
70°	649.2	399.6	239.5	163.9	127.5	107.4	98.7	94.5	92.0	92.8	95.3
72.5°	422.2	234.5	151.3	120.0	103.7	94.5	88.2	87.0	86.1	85.3	86.1
75°	223.2	146.7	114.5	100.3	90.7	83.2	79.0	77.3	77.8	77.8	77.8
77.5°	138.4	111.6	97.8	88.6	81.1	73.6	69.4	68.1	68.6	69.4	69.8
80°	106.2	97.4	86.1	79.4	68.6	62.3	60.2	59.8	60.6	60.6	61.9
82.5°	77.8	75.2	71.1	62.7	54.3	50.2	49.7	51.4	49.7	49.3	50.2
85°	45.6	42.6	46.4	39.7	36.4	33.9	35.5	38.9	40.6	38.5	37.6
87.5°	14.6	10.0	14.6	16.3	14.6	12.5	15.9	18.8	19.2	18.4	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P145743

CATALOG NUMBER: LDRL-SLL-F03-E-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	699.8	702.7	699.8	701.1	700.6	699.8	701.1	699.4	698.5	701.1	700.6
5°	726.1	726.6	722.8	723.2	722.8	719.4	719.4	717.8	715.7	716.1	715.3
7.5°	747.5	746.6	743.7	742.4	738.7	736.2	734.5	732.0	730.3	728.6	727.8
10°	763.8	761.7	759.6	755.8	752.1	750.0	745.4	741.6	740.4	737.8	736.2
12.5°	778.0	774.2	770.9	766.3	761.7	758.3	752.9	750.0	747.9	744.5	742.0
15°	785.9	778.8	772.5	765.4	760.4	755.4	749.1	747.9	744.9	741.6	737.0
17.5°	776.3	766.3	754.6	747.0	739.5	732.0	725.7	725.7	724.5	720.7	712.8
20°	756.7	741.6	727.8	715.7	708.2	697.3	693.5	687.7	683.5	676.8	666.8
22.5°	724.5	708.6	690.6	678.5	665.5	653.4	645.9	636.7	633.3	622.5	609.1
25°	688.5	665.5	646.3	630.4	612.4	598.2	587.8	575.2	566.9	556.4	539.7
27.5°	645.9	622.0	600.3	582.7	563.9	544.3	525.1	510.4	495.4	483.3	473.6
30°	599.9	575.2	548.5	528.0	506.2	481.6	465.7	446.1	434.3	421.0	408.4
32.5°	539.7	518.0	486.6	462.8	436.0	416.8	403.8	385.0	371.2	359.9	352.8
35°	473.6	441.0	409.7	391.7	373.3	357.8	339.9	325.2	316.0	304.3	298.1
37.5°	401.7	363.7	336.9	321.1	302.2	294.7	283.4	274.7	266.3	258.3	253.3
40°	337.4	302.2	278.0	264.6	252.1	243.7	236.6	232.8	227.4	221.1	217.4
42.5°	283.9	255.8	232.0	219.5	209.9	209.0	204.4	201.5	199.4	195.6	189.8
45°	242.0	216.5	196.1	186.0	181.8	182.3	182.3	179.8	179.8	178.5	174.7
47.5°	214.0	191.0	176.0	169.3	167.6	168.1	166.8	166.0	166.4	166.0	163.9
50°	192.3	172.7	160.1	157.6	157.2	156.8	155.1	153.8	153.4	154.3	153.8
52.5°	170.1	153.8	146.7	145.9	146.3	146.3	145.9	145.5	146.3	147.2	145.9
55°	157.6	145.9	141.3	141.3	141.3	141.3	140.9	140.5	141.7	143.0	140.9
57.5°	145.9	137.5	135.9	135.9	135.9	135.0	135.0	135.4	137.1	139.6	137.1
60°	137.1	132.9	132.9	133.4	132.9	131.3	130.0	130.0	132.1	135.4	133.4
62.5°	128.8	126.7	127.5	127.1	126.2	124.2	122.5	122.5	125.0	128.3	129.2
63°	126.7	125.0	125.8	125.4	124.6	122.9	121.2	121.2	123.3	126.7	127.9
65°	117.5	117.9	118.3	118.7	118.3	117.9	115.8	115.0	116.6	119.1	120.8
67.5°	106.6	107.4	108.3	110.4	109.5	109.5	108.3	107.4	107.9	109.1	110.4
70°	96.6	97.4	98.7	99.5	99.9	100.3	99.5	98.2	98.7	99.1	99.9
72.5°	87.0	87.8	88.6	90.3	90.3	90.3	89.5	88.6	89.0	89.9	90.7
75°	78.2	78.6	79.4	80.7	81.1	80.3	80.3	79.4	79.8	81.1	81.9
77.5°	69.4	68.6	69.0	69.8	71.1	71.1	71.5	71.1	71.9	72.7	73.6
80°	59.4	58.5	57.7	58.1	59.8	61.9	64.0	64.0	65.2	65.6	66.9
82.5°	47.2	46.4	46.0	47.2	46.8	49.7	54.3	56.9	58.5	60.2	61.0
85°	36.8	34.7	35.5	35.5	34.7	39.3	43.5	46.8	47.2	49.7	50.2
87.5°	21.7	20.9	20.1	19.2	22.2	26.8	30.5	31.8	32.6	33.9	35.1
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	697.3	700.6	699.8	699.4	699.8	699.4	698.1	698.5	697.7	698.1	697.3
5°	710.7	712.3	711.1	709.0	709.0	706.1	704.0	702.3	700.2	699.4	697.7
7.5°	723.6	722.4	720.7	716.9	714.9	711.1	708.2	704.8	702.7	700.2	697.3
10°	731.6	729.1	725.7	721.1	715.3	711.9	707.7	702.7	700.2	699.0	696.0
12.5°	735.3	728.6	723.2	714.9	706.5	700.2	695.6	690.6	689.4	687.7	685.6
15°	726.6	716.9	703.1	691.9	681.0	672.2	668.4	663.0	661.8	661.3	660.9
17.5°	696.9	682.2	668.9	653.8	644.2	636.3	632.9	631.7	629.6	628.7	629.2
20°	649.2	636.7	623.3	618.3	607.0	604.9	599.9	596.5	592.8	591.5	589.4
22.5°	593.6	578.2	569.8	566.0	561.4	550.6	548.1	544.7	539.7	535.9	535.1
25°	528.8	516.3	515.9	507.1	503.3	497.5	490.8	486.6	483.7	479.1	475.7
27.5°	462.8	458.2	450.2	443.5	441.0	437.7	427.7	425.6	422.2	418.5	414.7
30°	401.3	398.0	390.5	384.2	380.4	373.7	364.1	365.0	358.3	353.2	349.9
32.5°	341.5	339.0	331.9	330.3	318.1	314.8	304.8	297.2	290.5	285.5	281.3
35°	287.6	280.9	281.3	273.8	267.1	257.1	246.6	237.0	231.6	229.1	225.3
37.5°	248.7	242.5	236.2	227.8	220.3	213.2	206.9	204.0	200.7	201.5	201.9
40°	213.6	209.0	204.4	198.6	194.0	191.0	189.4	189.4	189.8	191.9	193.6
42.5°	188.5	184.8	182.3	180.2	181.0	181.0	182.3	184.4	186.4	189.4	191.0
45°	171.8	169.7	168.9	169.7	172.2	174.3	177.2	180.6	183.9	186.9	188.1
47.5°	161.8	160.5	160.5	162.6	166.4	169.7	174.3	177.7	181.4	183.9	184.8
50°	150.9	150.5	150.5	152.2	155.5	159.7	164.3	167.6	171.0	173.1	173.9
52.5°	144.6	143.4	143.0	145.1	148.0	152.2	156.8	160.1	162.6	164.3	164.7
55°	139.2	138.0	137.1	139.6	143.0	146.7	152.2	155.9	158.4	160.5	162.2
57.5°	134.6	133.4	132.5	135.4	138.8	143.4	148.0	152.2	155.5	158.0	159.7
60°	130.8	129.2	128.3	131.7	135.0	139.6	144.2	148.8	153.4	156.3	157.2
62.5°	126.2	125.0	123.7	125.8	127.5	130.8	135.0	139.6	143.8	146.7	146.7
63°	125.0	124.6	122.9	124.6	126.2	129.2	133.4	137.5	141.7	145.1	144.6
65°	119.6	119.6	118.7	120.4	122.1	125.0	128.3	132.9	136.7	139.2	139.6
67.5°	110.8	111.2	112.0	113.7	117.1	120.0	123.7	127.9	131.3	132.9	133.8
70°	100.7	101.6	103.3	105.8	108.7	111.2	113.7	117.9	120.8	122.5	123.3
72.5°	91.1	93.2	94.5	96.6	98.2	100.7	102.8	107.0	109.5	110.8	112.9
75°	82.4	84.0	84.9	86.1	87.8	88.6	91.1	92.8	96.1	97.8	100.3
77.5°	74.0	74.8	76.1	78.2	78.6	79.8	80.7	83.2	84.9	86.5	88.6
80°	66.5	67.3	69.0	70.2	70.6	71.5	71.9	71.5	71.1	69.8	71.5
82.5°	59.8	60.6	62.7	64.0	65.2	65.2	64.8	60.2	58.1	58.9	60.2
85°	49.3	50.2	52.3	54.8	55.2	54.8	55.2	50.6	47.7	46.4	47.7
87.5°	30.9	30.1	37.2	40.6	38.0	38.9	39.3	36.8	34.3	29.3	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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	0°
2.5°	698.1	695.2	695.6	696.5	696.5	697.7	696.0	693.9	695.2	693.1	692.7	2.5°
5°	697.7	693.9	693.9	694.8	693.9	694.8	693.5	691.4	692.7	690.2	689.8	5°
7.5°	696.0	693.9	694.8	695.6	694.4	694.8	694.4	691.4	691.9	690.6	687.7	7.5°
10°	695.2	693.9	695.6	698.1	698.1	698.5	697.3	693.9	691.9	690.6	688.1	10°
12.5°	686.4	688.1	691.4	697.3	699.4	702.7	704.4	702.7	703.6	701.9	701.1	12.5°
15°	661.3	665.5	671.0	679.7	686.0	693.5	702.7	706.9	714.9	721.1	725.3	15°
17.5°	631.2	634.2	640.0	650.1	658.0	673.0	685.6	699.8	715.3	732.0	746.6	17.5°
20°	594.0	591.9	601.1	612.0	625.8	642.5	660.9	682.2	707.7	734.5	760.0	20°
22.5°	539.3	539.3	548.9	561.8	578.6	597.8	623.3	646.3	679.7	718.6	756.2	22.5°
25°	476.6	477.8	484.5	499.1	510.8	538.4	562.3	591.9	632.1	674.7	724.9	25°
27.5°	409.7	418.0	416.4	431.8	447.3	474.5	507.1	537.2	581.9	627.5	684.8	27.5°
30°	349.1	347.8	347.4	365.8	381.3	405.9	432.7	470.7	515.9	574.4	640.4	30°
32.5°	273.8	278.4	281.8	292.6	309.4	332.3	361.2	400.9	455.2	514.2	588.6	32.5°
35°	226.2	227.4	232.0	238.3	252.9	272.1	302.2	337.4	385.0	446.1	525.1	35°
37.5°	202.8	204.0	209.0	214.9	225.3	239.5	260.0	287.2	331.1	387.9	461.5	37.5°
40°	195.2	196.5	199.4	204.8	214.5	226.6	242.9	263.8	295.6	339.9	404.2	40°
42.5°	191.9	191.9	192.3	196.5	206.1	220.3	237.9	256.7	280.1	313.5	365.8	42.5°
45°	188.1	188.1	187.7	190.6	198.2	214.5	235.8	258.8	284.3	313.1	354.1	45°
47.5°	184.8	183.9	183.1	184.4	190.6	207.3	232.0	260.0	292.6	328.6	370.0	47.5°
50°	173.1	173.1	172.7	173.1	178.9	196.5	224.9	258.8	300.2	346.6	396.7	50°
52.5°	164.7	165.1	165.5	165.5	170.1	188.1	219.5	259.2	308.5	364.1	427.7	52.5°
55°	162.6	163.5	163.5	162.6	166.4	182.7	214.5	257.9	314.4	383.8	460.7	55°
57.5°	160.1	160.5	160.9	160.1	162.6	176.8	207.3	252.1	312.7	391.3	485.3	57.5°
60°	156.8	155.1	154.7	153.4	155.1	166.4	194.8	239.5	302.7	387.9	493.7	60°
62.5°	147.6	146.3	145.1	143.8	145.1	153.4	181.0	224.1	285.9	374.6	487.0	62.5°
63°	145.5	144.6	143.4	142.1	142.1	151.3	176.4	220.3	281.8	370.8	484.5	63°
65°	139.6	139.2	138.4	137.1	136.7	143.8	166.0	203.2	262.1	354.1	468.6	65°
67.5°	132.9	132.9	132.5	130.8	128.8	132.9	148.4	177.7	227.8	311.0	429.3	67.5°
70°	123.3	123.3	122.9	122.1	119.6	122.5	132.5	151.7	187.7	254.2	359.9	70°
72.5°	113.7	113.7	115.0	114.5	115.0	115.4	120.4	130.8	152.6	197.7	272.1	72.5°
75°	101.2	103.3	103.7	104.5	104.9	104.5	107.0	113.3	125.8	151.7	198.6	75°
77.5°	90.7	93.6	93.2	92.4	92.0	92.4	92.0	94.9	104.1	120.4	147.2	77.5°
80°	74.8	77.8	77.8	77.3	76.5	77.3	76.5	79.4	87.0	101.2	117.1	80°
82.5°	61.5	63.5	64.8	65.6	64.8	68.1	68.1	67.3	73.2	85.7	98.7	82.5°
85°	49.3	51.4	52.7	54.3	55.2	54.3	53.9	53.1	56.4	66.5	75.2	85°
87.5°	31.4	33.0	33.0	33.4	33.4	34.7	32.2	29.3	26.8	38.0	39.7	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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NUMBER: LDRL-SLL-F03-E-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
691.4	691.4	691.4	691.4	691.4	691.4	691.4
691.4	691.4	691.9	690.6	691.9	691.9	690.6
688.5	687.7	687.7	687.3	688.1	687.7	687.3
686.0	686.0	684.3	683.1	682.7	684.3	683.5
685.2	684.3	683.9	683.1	683.5	684.8	685.6
700.2	697.3	698.1	697.7	698.1	699.4	701.9
727.8	727.8	729.9	725.3	727.4	729.5	732.8
758.7	766.3	770.0	769.6	770.5	772.1	775.9
785.1	808.9	825.6	829.8	841.1	843.6	837.8
796.8	839.4	877.1	902.1	930.1	941.4	944.8
773.0	834.4	896.3	954.0	1009.2	1040.9	1068.9
748.3	821.0	903.4	989.5	1079.4	1160.5	1221.1
714.0	810.2	921.4	1037.6	1156.7	1269.6	1370.8
676.4	792.6	923.0	1064.3	1211.5	1351.9	1474.4
622.5	751.6	896.3	1060.2	1230.7	1406.7	1559.7
560.6	686.4	848.6	1035.9	1229.5	1434.7	1618.2
494.5	623.3	793.9	994.5	1213.2	1443.5	1659.2
444.8	572.3	739.5	955.2	1188.9	1437.6	1678.9
419.3	528.4	695.2	916.8	1161.7	1423.4	1687.2
424.3	516.7	668.9	885.0	1137.5	1408.0	1685.1
452.3	534.3	668.4	873.3	1122.0	1393.7	1679.3
494.5	574.0	692.7	887.1	1130.4	1392.5	1678.9
542.2	629.6	751.2	924.3	1165.9	1415.1	1688.9
588.2	697.3	826.5	1007.5	1233.2	1471.5	1729.4
615.4	759.2	923.0	1124.9	1336.9	1570.6	1818.5
621.6	796.4	1008.7	1240.3	1479.0	1714.0	1957.3
621.2	800.1	1023.4	1264.2	1507.9	1747.0	1992.8
611.6	807.7	1062.7	1342.7	1623.7	1888.7	2141.2
581.5	794.3	1084.4	1415.9	1738.6	2045.1	2364.4
512.5	733.2	1058.9	1439.7	1807.2	2148.7	2513.3
401.3	604.9	914.3	1316.0	1714.4	2055.9	2517.0
282.2	427.7	703.6	1080.6	1401.3	1737.4	2248.2
196.5	277.2	456.9	727.0	1011.2	1267.5	1671.3
143.8	184.4	273.8	434.8	613.7	792.2	1037.2
110.8	132.9	175.2	262.5	346.6	443.5	625.4
77.8	87.8	108.3	162.2	232.4	317.3	458.2
33.9	39.7	52.3	95.7	157.2	151.3	144.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)