

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: P163274

Luminaire Tested: **LDRL-SL2-F05-E-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163274
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-F05-E-7060-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (35) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7532.8 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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

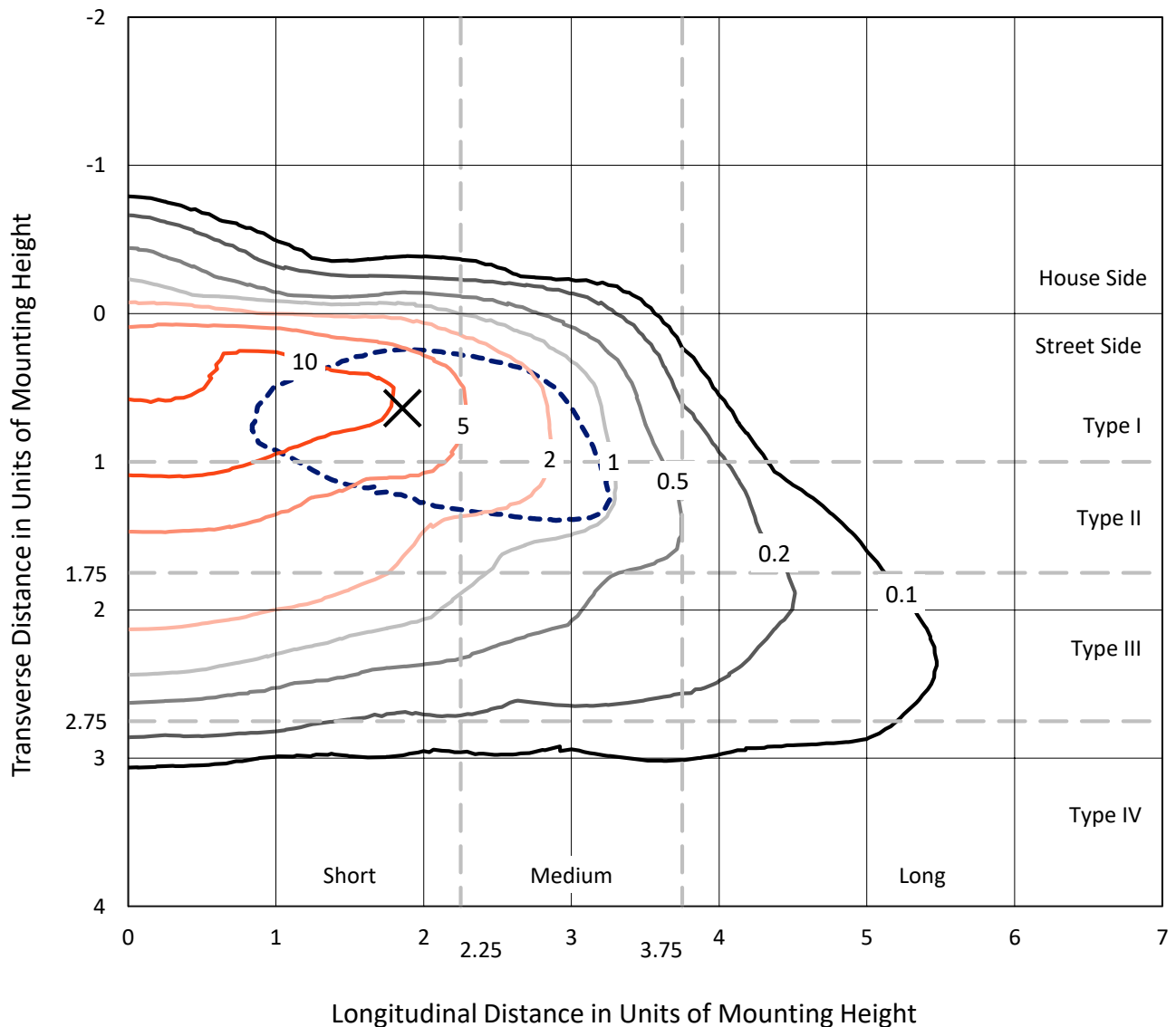


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

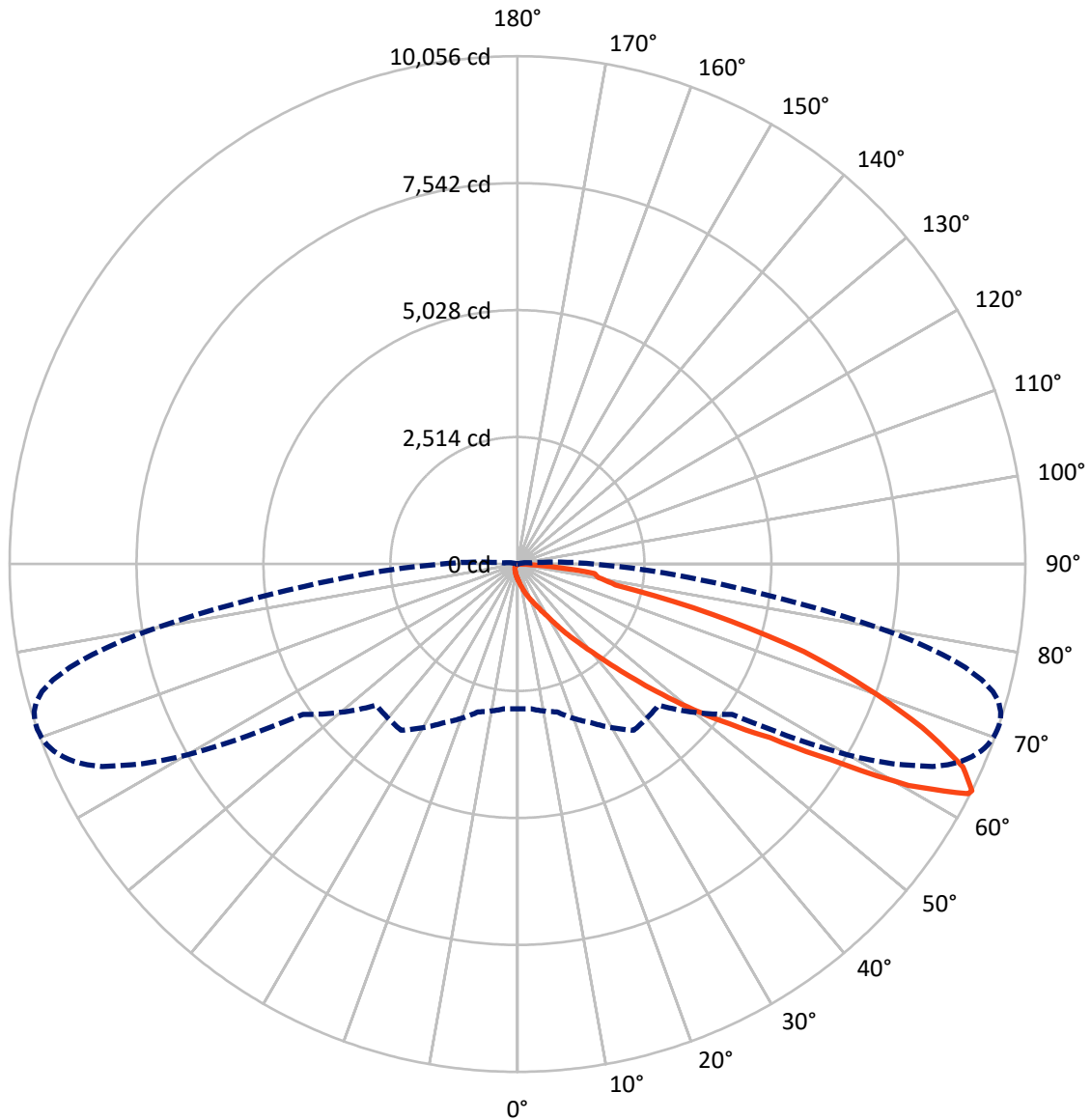


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Non-Cutoff

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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	159.9	0.0	159.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7372.9	0.0	7372.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	7532.8	0.0	7532.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	0.4
10°-20°	123.9	1.6
20°-30°	251.6	3.3
30°-40°	614.6	8.2
40°-50°	1374.6	18.2
50°-60°	1932.9	25.7
60°-70°	2272.9	30.2
70°-80°	820.7	10.9
80°-90°	109.8	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°	7532.8	100.0
0°-180°	7532.8	100.0



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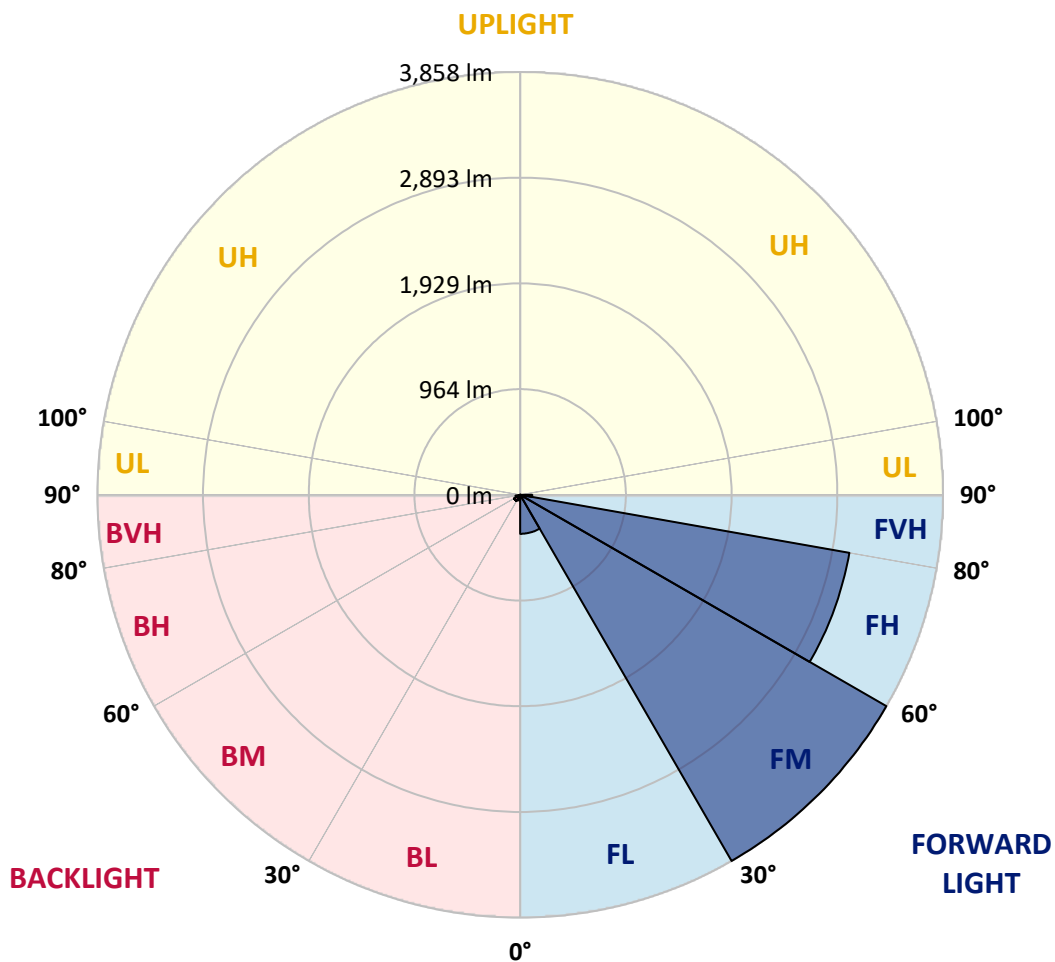
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.0	4.7			
FM	(30°-60°)	3857.7	51.2			
FH	(60°-80°)	3049.8	40.5			G2/5000
FVH	(80°-90°)	109.5	1.5			G2/225
BL	(0°-30°)	51.4	0.7	B0/110		
BM	(30°-60°)	64.4	0.9	B0/220		
BH	(60°-80°)	43.8	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°	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9
2.5°	378.0	382.0	379.3	372.5	364.2	353.3	343.7	343.7	342.4	338.2	339.6
5°	495.7	497.1	491.6	475.2	460.1	436.8	410.8	408.1	405.3	401.3	399.9
7.5°	610.7	616.2	610.7	593.0	562.8	527.2	486.1	482.1	473.9	473.9	468.3
10°	728.6	728.6	723.1	702.5	675.1	624.5	572.5	565.6	556.0	553.2	545.0
12.5°	812.1	812.1	809.3	798.4	776.4	731.3	668.3	661.4	649.1	645.0	635.4
15°	845.0	845.0	846.3	855.9	857.2	836.7	771.0	765.5	753.2	742.2	738.1
17.5°	865.5	864.1	864.1	877.8	902.5	916.1	873.7	868.3	854.5	849.0	835.4
20°	910.7	907.9	899.7	899.7	923.0	970.9	970.9	969.6	954.5	950.4	943.6
22.5°	977.8	975.1	950.4	929.8	940.8	1001.1	1057.2	1054.4	1049.0	1043.5	1039.4
25°	1087.3	1077.7	1035.3	975.1	965.4	1029.8	1123.0	1129.7	1133.9	1133.9	1136.6
27.5°	1253.0	1240.7	1165.4	1053.1	1010.6	1076.4	1195.5	1209.2	1221.6	1224.3	1236.6
30°	1483.1	1461.2	1353.0	1188.7	1091.5	1144.8	1302.3	1317.4	1335.2	1340.7	1359.8
32.5°	1861.0	1848.7	1744.6	1498.1	1290.0	1279.1	1451.5	1470.8	1494.1	1503.6	1526.9
35°	2436.2	2439.0	2354.0	2132.2	1844.6	1694.0	1718.6	1735.1	1743.3	1772.0	1784.4
37.5°	2826.5	2833.3	2852.5	2764.9	2559.4	2406.1	2213.0	2230.8	2188.3	2192.5	2193.8
40°	3040.2	3062.0	3174.3	3259.2	3242.8	3153.7	2999.1	3008.6	2929.2	2911.4	2825.1
42.5°	3182.5	3211.3	3390.7	3653.6	3787.9	3868.6	3833.0	3829.0	3767.3	3744.0	3671.4
45°	3271.6	3297.6	3523.5	3911.1	4220.6	4456.1	4553.4	4564.3	4512.3	4489.0	4428.7
47.5°	3267.4	3297.6	3539.9	4006.9	4463.0	4839.5	5113.5	5127.1	5158.6	5138.1	5142.2
50°	3086.7	3115.5	3359.2	3843.9	4391.7	5014.9	5516.1	5559.9	5610.5	5644.7	5661.2
52.5°	2867.6	2888.1	3104.4	3564.6	4087.7	4942.3	5754.4	5829.7	5905.0	5969.3	6014.5
55°	2786.8	2810.1	2979.8	3362.0	3843.9	4638.2	5865.2	5976.2	6083.0	6188.4	6274.7
57.5°	2829.2	2851.2	2973.0	3266.1	3698.8	4317.8	5896.7	6069.3	6244.6	6415.8	6585.6
60°	2985.3	3008.6	3112.7	3355.1	3660.5	4132.9	5773.5	6059.7	6351.4	6650.0	6930.7
62.5°	2923.7	2933.3	3086.7	3511.2	3934.3	3975.4	5325.7	5725.6	6170.6	6630.7	7084.0
63°	2864.8	2875.8	3031.9	3468.8	4017.9	3952.2	5187.4	5609.2	6078.9	6574.6	7067.6
65°	2597.8	2599.2	2718.4	3063.4	3924.8	3993.3	4571.2	4973.8	5513.3	6107.7	6730.7
67.5°	1939.1	1929.6	2044.6	2307.5	3081.2	3994.6	3923.4	4149.3	4524.6	5051.8	5610.5
70°	687.5	672.4	858.6	1222.9	1919.9	3267.4	3371.5	3386.6	3490.6	3775.5	4126.1
72.5°	223.2	227.4	273.9	447.8	884.7	2199.3	3052.4	3005.8	2978.5	2977.1	3023.7
75°	89.0	90.4	109.5	198.6	397.1	1059.9	2673.1	2699.1	2708.7	2722.4	2737.5
77.5°	42.4	46.6	61.6	110.9	197.2	524.5	1913.1	2133.5	2259.6	2356.8	2415.7
80°	15.1	17.8	34.2	68.4	91.7	241.0	1007.9	1216.1	1400.9	1639.2	1844.6
82.5°	0.0	0.0	6.9	47.9	50.7	97.2	413.5	484.8	554.6	718.9	923.0
85°	0.0	0.0	0.0	13.7	15.1	16.4	139.7	168.4	189.0	220.5	254.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	8.2	20.5	31.5
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°	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9
2.5°	336.9	335.5	335.5	332.7	331.4	328.7	327.3	323.2	321.8	321.8	321.8
5°	398.5	393.0	390.2	383.5	379.3	378.0	371.1	368.4	364.2	365.6	358.8
7.5°	467.0	457.4	453.3	443.7	441.0	431.3	428.6	421.8	417.7	409.5	406.7
10°	542.3	529.9	523.2	508.1	503.9	497.1	488.8	480.6	473.9	465.6	461.5
12.5°	628.5	617.6	612.1	591.6	582.0	572.5	561.4	550.5	539.6	532.7	523.2
15°	729.9	712.1	706.6	687.5	671.1	658.7	643.6	630.0	621.8	608.0	598.5
17.5°	829.9	812.1	807.9	779.2	761.4	753.2	736.8	718.9	703.9	690.2	675.1
20°	929.8	917.6	906.5	879.2	860.0	846.3	824.4	806.6	794.3	775.1	755.9
22.5°	1029.8	1017.5	1009.3	980.5	962.7	943.6	924.3	905.2	887.4	864.1	842.2
25°	1132.5	1124.3	1120.2	1094.2	1077.7	1059.9	1040.8	1018.9	996.9	970.9	947.6
27.5°	1239.4	1242.1	1233.9	1228.3	1210.6	1198.3	1168.1	1153.0	1136.6	1105.1	1076.4
30°	1374.9	1383.1	1380.4	1384.5	1373.5	1365.3	1342.0	1322.9	1303.7	1273.6	1240.7
32.5°	1546.1	1557.0	1562.5	1577.6	1572.1	1569.4	1562.5	1535.2	1521.4	1469.4	1455.7
35°	1810.4	1804.9	1828.2	1840.5	1835.0	1832.3	1824.1	1809.0	1792.6	1755.6	1721.3
37.5°	2154.1	2159.6	2167.8	2143.2	2126.8	2125.3	2100.7	2085.7	2062.4	2021.3	1980.2
40°	2784.0	2749.8	2711.5	2607.4	2562.2	2536.1	2463.6	2443.1	2403.3	2347.2	2304.7
42.5°	3603.0	3568.7	3453.7	3279.8	3186.6	3057.9	2999.1	2926.5	2870.3	2778.6	2729.3
45°	4416.4	4317.8	4304.1	4101.5	3986.4	3816.6	3711.1	3589.2	3461.9	3341.4	3253.8
47.5°	5102.4	5080.6	5013.5	4890.3	4783.4	4641.0	4505.4	4317.8	4186.3	4015.1	3857.7
50°	5651.6	5650.2	5625.6	5554.4	5465.4	5350.4	5231.2	5072.4	4923.1	4713.6	4545.2
52.5°	6062.4	6084.4	6092.6	6070.7	6036.4	5935.1	5874.8	5742.0	5616.0	5438.0	5255.9
55°	6363.7	6444.6	6485.6	6532.1	6522.6	6487.0	6484.2	6398.0	6340.4	6199.4	6070.7
57.5°	6736.2	6869.0	6996.4	7222.3	7230.6	7310.0	7351.1	7392.2	7403.1	7346.9	7304.5
60°	7210.1	7481.2	7722.2	8194.6	8317.9	8512.3	8638.3	8775.3	8891.7	8901.2	8898.5
62.5°	7544.1	7961.8	8350.7	9051.9	9291.6	9516.1	9684.5	9817.4	9898.2	9980.3	10018.7
63°	7553.7	8011.1	8424.7	9147.7	9399.7	9613.4	9773.6	9896.8	9981.8	10031.1	10055.7
65°	7322.3	7877.0	8370.0	9090.2	9327.1	9542.1	9625.7	9706.5	9747.6	9766.7	9694.2
67.5°	6206.3	6748.6	7323.6	8128.9	8331.6	8589.0	8657.5	8698.6	8717.8	8713.6	8652.0
70°	4641.0	5095.7	5735.1	6655.4	6923.8	7175.7	7331.9	7399.0	7420.9	7414.0	7322.3
72.5°	3240.1	3507.1	4034.4	5058.7	5424.3	5747.5	5940.5	6040.5	6061.1	6020.0	5935.1
75°	2721.1	2734.8	2853.9	3414.0	3756.4	4101.5	4319.2	4382.2	4341.1	4216.5	4000.1
77.5°	2429.3	2459.5	2459.5	2543.0	2610.1	2706.0	2726.6	2573.2	2395.1	2165.0	1978.9
80°	2037.7	2143.2	2217.1	2278.7	2285.6	2266.4	2215.7	2129.5	1992.5	1817.2	1622.7
82.5°	1238.0	1446.1	1531.0	1848.7	2004.9	2110.3	2102.1	1987.1	1883.0	1700.8	1535.2
85°	312.2	336.9	365.6	475.2	532.7	650.5	724.4	758.6	771.0	708.0	640.9
87.5°	30.2	20.5	34.2	26.0	36.9	27.4	36.9	34.2	42.4	45.1	49.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9
2.5°	319.1	317.7	316.3	314.9	313.6	312.2	309.5	309.5	306.7	305.4	304.0
5°	354.7	352.0	350.6	347.8	343.7	340.9	336.9	331.4	327.3	326.0	323.2
7.5°	399.9	393.0	390.2	386.2	380.7	372.5	367.0	362.9	356.0	352.0	343.7
10°	450.6	443.7	435.5	427.3	419.0	409.5	402.6	397.1	386.2	380.7	371.1
12.5°	514.9	502.6	493.0	482.1	471.1	460.1	451.9	435.5	425.9	413.5	405.3
15°	580.7	569.7	558.7	545.0	528.6	510.8	502.6	487.5	475.2	456.0	445.1
17.5°	660.0	639.5	623.1	606.7	591.6	575.2	558.7	535.4	517.6	501.2	479.3
20°	738.1	713.5	695.7	673.8	651.8	625.8	606.7	590.2	565.6	543.7	520.4
22.5°	821.7	797.0	768.2	746.4	716.2	695.7	669.6	642.3	617.6	588.9	560.1
25°	923.0	897.0	864.1	835.4	801.1	772.4	740.9	709.3	679.3	646.4	609.4
27.5°	1047.6	1020.2	984.6	950.4	905.2	869.6	839.5	797.0	758.6	717.6	675.1
30°	1205.1	1175.0	1131.2	1081.9	1036.7	996.9	954.5	898.3	855.9	806.6	751.8
32.5°	1410.5	1374.9	1316.0	1269.4	1213.4	1161.3	1102.4	1046.2	986.0	921.6	858.6
35°	1669.3	1636.5	1568.0	1499.5	1437.9	1376.2	1302.3	1238.0	1153.0	1075.0	994.2
37.5°	1937.8	1878.8	1815.9	1741.9	1665.2	1591.2	1500.8	1411.9	1314.7	1229.8	1128.4
40°	2244.5	2173.3	2121.2	2041.8	1933.6	1828.2	1744.6	1633.8	1511.9	1398.2	1279.1
42.5°	2664.9	2585.4	2492.4	2371.8	2293.8	2170.5	2062.4	1930.9	1770.6	1643.3	1499.5
45°	3151.0	3042.9	2952.5	2836.1	2741.6	2588.2	2462.2	2286.9	2126.8	1959.6	1784.4
47.5°	3705.7	3571.4	3440.0	3324.9	3174.3	3023.7	2863.5	2677.3	2471.9	2288.3	2080.2
50°	4342.4	4152.1	3970.0	3822.1	3615.3	3441.3	3267.4	3057.9	2830.6	2619.8	2382.8
52.5°	5050.4	4829.9	4588.9	4361.6	4122.0	3898.8	3689.3	3448.2	3194.8	2937.4	2673.1
55°	5905.0	5739.3	5455.8	5166.8	4846.4	4547.9	4278.1	3979.6	3671.4	3333.2	3055.1
57.5°	7242.9	7162.1	6925.2	6636.2	6218.6	5855.7	5398.2	5032.6	4586.2	4120.6	3761.8
60°	9056.0	8956.0	8823.2	8589.0	8257.6	7764.6	7260.7	6692.4	6013.1	5368.2	4756.0
62.5°	10022.9	9987.2	9879.0	9717.4	9408.0	9019.1	8511.0	7886.5	7119.7	6336.3	5555.7
63°	10051.6	10006.4	9913.2	9748.9	9476.4	9099.8	8601.4	7994.7	7244.3	6445.9	5648.9
65°	9662.7	9644.9	9550.4	9370.9	9184.8	8897.2	8511.0	7989.2	7359.3	6604.7	5811.9
67.5°	8569.9	8516.4	8371.3	8316.5	8186.4	7986.5	7692.0	7333.3	6882.7	6289.8	5605.0
70°	7248.3	7169.0	6986.8	6889.6	6730.7	6604.7	6425.3	6169.3	5891.2	5477.7	4966.9
72.5°	5847.4	5683.1	5516.1	5262.7	5040.9	4816.3	4617.7	4436.9	4131.5	3964.5	3576.9
75°	3797.4	3498.8	3212.7	2829.2	2484.1	2178.8	1881.6	1730.9	1417.3	1290.0	1107.9
77.5°	1802.2	1635.1	1410.5	1236.6	1014.7	828.5	676.5	508.1	398.5	312.2	238.3
80°	1454.3	1313.3	1177.7	1020.2	853.2	680.6	521.7	390.2	276.7	191.7	135.5
82.5°	1296.9	1143.5	976.4	868.3	754.6	617.6	506.7	413.5	305.4	223.2	152.0
85°	503.9	424.6	327.3	267.0	208.1	171.2	154.8	106.8	83.5	65.7	50.7
87.5°	43.8	35.6	28.7	19.1	20.5	10.9	12.3	8.2	6.9	6.9	5.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9	288.9
2.5°	302.7	301.3	299.9	297.2	297.2	294.4	293.1	291.6	284.9	269.8	257.4
5°	317.7	314.9	312.2	308.1	305.4	301.3	298.5	294.4	279.4	250.6	225.9
7.5°	339.6	334.2	330.0	321.8	317.7	312.2	308.1	301.3	276.7	232.8	198.6
10°	365.6	356.0	349.2	339.6	331.4	324.5	317.7	308.1	273.9	213.6	173.9
12.5°	397.1	386.2	372.5	361.5	350.6	340.9	331.4	319.1	269.8	197.2	154.8
15°	428.6	412.2	402.6	387.5	372.5	358.8	345.1	334.2	271.1	179.4	138.3
17.5°	464.2	447.8	427.3	410.8	394.4	376.6	360.2	338.2	264.3	165.7	126.0
20°	498.5	475.2	456.0	435.5	412.2	390.2	369.7	350.6	258.8	152.0	115.0
22.5°	535.4	508.1	483.4	457.4	428.6	404.0	379.3	354.7	249.2	139.7	105.5
25°	580.7	549.2	513.5	482.1	451.9	421.8	390.2	360.2	239.6	128.8	98.6
27.5°	635.4	594.3	558.7	519.0	476.6	438.2	404.0	371.1	230.1	120.5	91.7
30°	705.3	657.3	606.7	556.0	510.8	467.0	419.0	378.0	220.5	112.3	84.9
32.5°	798.4	738.1	676.5	617.6	557.4	501.2	450.6	397.1	215.0	105.5	78.0
35°	921.6	843.6	768.2	694.3	621.8	553.2	487.5	427.3	215.0	97.2	69.8
37.5°	1038.0	947.6	851.8	760.0	673.8	594.3	516.3	443.7	204.1	90.4	63.0
40°	1164.1	1055.8	943.6	835.4	731.3	632.7	543.7	460.1	194.5	82.2	56.2
42.5°	1357.1	1220.1	1073.7	947.6	823.0	701.1	590.2	491.6	182.1	73.9	49.3
45°	1610.5	1436.6	1264.0	1110.6	951.8	802.5	671.1	549.2	179.4	67.1	42.4
47.5°	1881.6	1676.2	1473.5	1277.6	1091.5	917.6	760.0	613.5	179.4	60.2	36.9
50°	2151.4	1893.9	1677.5	1450.2	1240.7	1035.3	847.7	680.6	180.8	54.8	30.2
52.5°	2395.1	2119.9	1877.5	1614.5	1383.1	1144.8	940.8	746.4	178.1	47.9	24.6
55°	2733.3	2410.2	2129.5	1839.2	1568.0	1299.6	1068.2	845.0	179.4	42.4	20.5
57.5°	3356.5	2977.1	2638.9	2258.2	1946.0	1599.4	1318.7	1047.6	195.8	35.6	15.1
60°	4250.7	3757.7	3282.5	2818.3	2421.1	2008.9	1644.7	1325.6	230.1	28.7	10.9
62.5°	4851.9	4206.8	3640.0	3127.7	2666.3	2234.9	1837.7	1474.8	253.4	23.3	6.9
63°	4913.5	4246.6	3676.9	3148.3	2677.3	2245.9	1845.9	1485.9	254.7	21.9	6.9
65°	5029.9	4315.1	3697.5	3152.4	2666.3	2230.8	1840.5	1484.4	257.4	17.8	5.5
67.5°	4897.0	4209.6	3578.3	3034.6	2570.5	2141.7	1772.0	1429.7	256.1	12.3	4.1
70°	4379.4	3809.7	3255.1	2748.4	2326.7	1939.1	1613.2	1303.7	235.6	8.2	2.7
72.5°	3215.4	2827.9	2397.9	2032.2	1752.9	1455.7	1242.1	979.1	182.1	5.5	1.4
75°	953.1	868.3	729.9	643.6	568.3	469.7	417.7	326.0	93.1	2.7	0.0
77.5°	190.3	172.5	154.8	141.0	132.8	113.7	108.2	89.0	38.4	1.4	0.0
80°	100.0	82.2	69.8	61.6	53.4	43.8	36.9	30.2	6.9	0.0	0.0
82.5°	95.9	64.4	46.6	38.4	32.9	26.0	20.5	15.1	4.1	0.0	0.0
85°	35.6	27.4	20.5	16.4	13.7	12.3	9.6	8.2	0.0	0.0	0.0
87.5°	5.5	4.1	4.1	2.7	2.7	1.4	1.4	1.4	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



REPORT NUMBER: P163274

CATALOG NUMBER: LDRL-SL2-F05-E-7060-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	288.9	288.9	288.9	288.9	288.9	288.9	288.9
2.5°	245.1	234.1	228.7	221.8	221.8	220.5	223.2
5°	204.1	189.0	178.1	169.8	171.2	167.0	168.4
7.5°	172.5	157.5	147.9	142.4	141.0	139.7	139.7
10°	149.3	135.5	127.3	123.2	121.9	121.9	121.9
12.5°	132.8	119.1	112.3	109.5	109.5	108.2	108.2
15°	119.1	108.2	101.3	98.6	98.6	97.2	98.6
17.5°	108.2	97.2	91.7	89.0	89.0	87.7	87.7
20°	98.6	89.0	83.5	79.5	79.5	78.0	79.5
22.5°	90.4	80.8	73.9	71.2	69.8	68.4	69.8
25°	82.2	72.6	65.7	61.6	60.2	60.2	58.9
27.5°	75.3	65.7	57.5	53.4	52.0	52.0	50.7
30°	68.4	57.5	49.3	45.1	43.8	43.8	43.8
32.5°	61.6	49.3	42.4	38.4	36.9	36.9	36.9
35°	54.8	42.4	35.6	31.5	30.2	30.2	30.2
37.5°	46.6	35.6	27.4	24.6	23.3	21.9	21.9
40°	39.7	27.4	20.5	17.8	15.1	15.1	15.1
42.5°	32.9	21.9	15.1	10.9	9.6	8.2	9.6
45°	27.4	16.4	9.6	5.5	4.1	4.1	4.1
47.5°	21.9	10.9	4.1	1.4	1.4	1.4	1.4
50°	16.4	6.9	1.4	0.0	0.0	1.4	1.4
52.5°	12.3	4.1	0.0	0.0	0.0	0.0	0.0
55°	6.9	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)