

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: P163255

Luminaire Tested: **LDRL-SL2-E04-E-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163255  
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-8030-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) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6004.3 lumens  
Efficiency: N/A  
Efficacy: 61.8 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

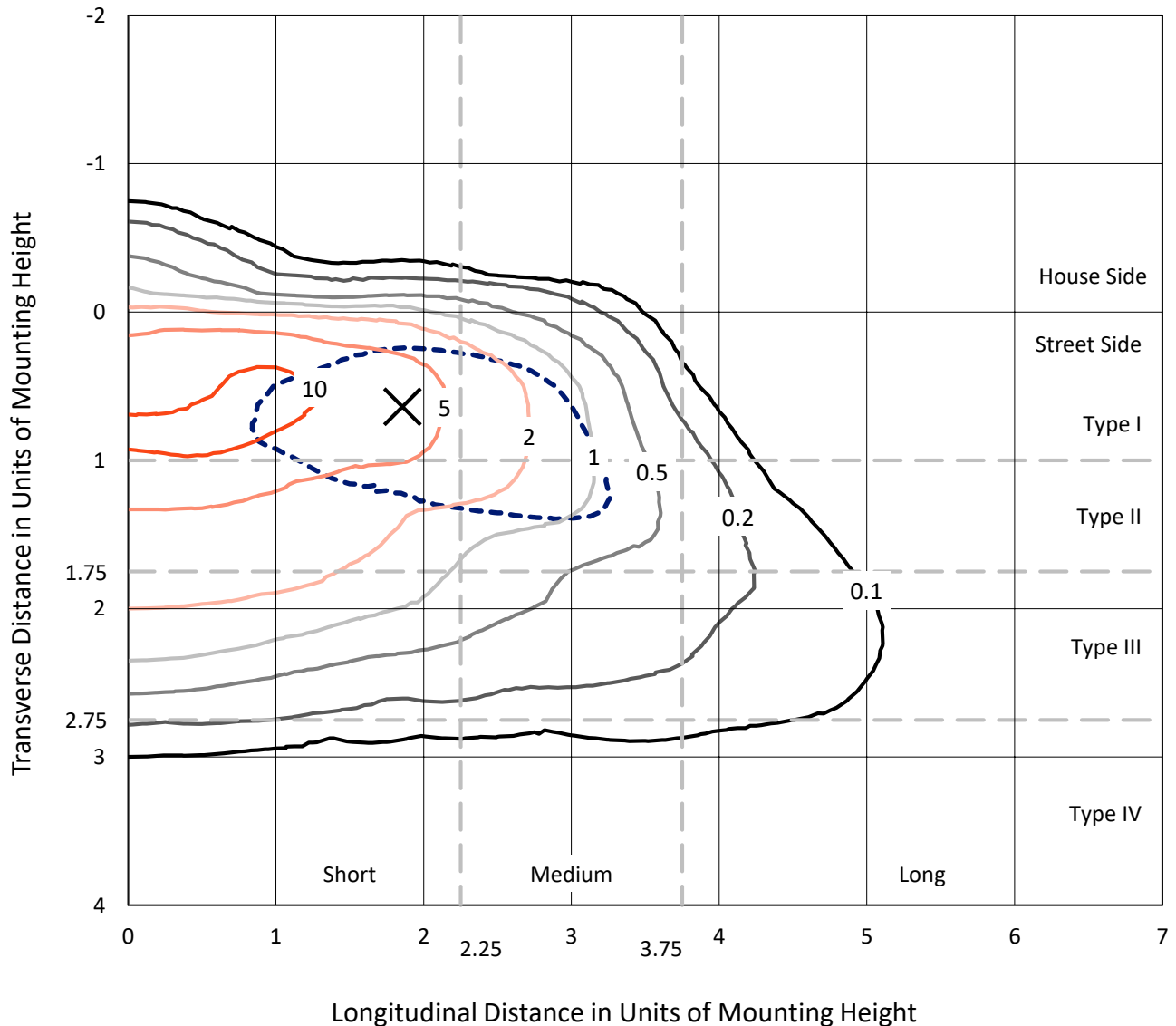
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

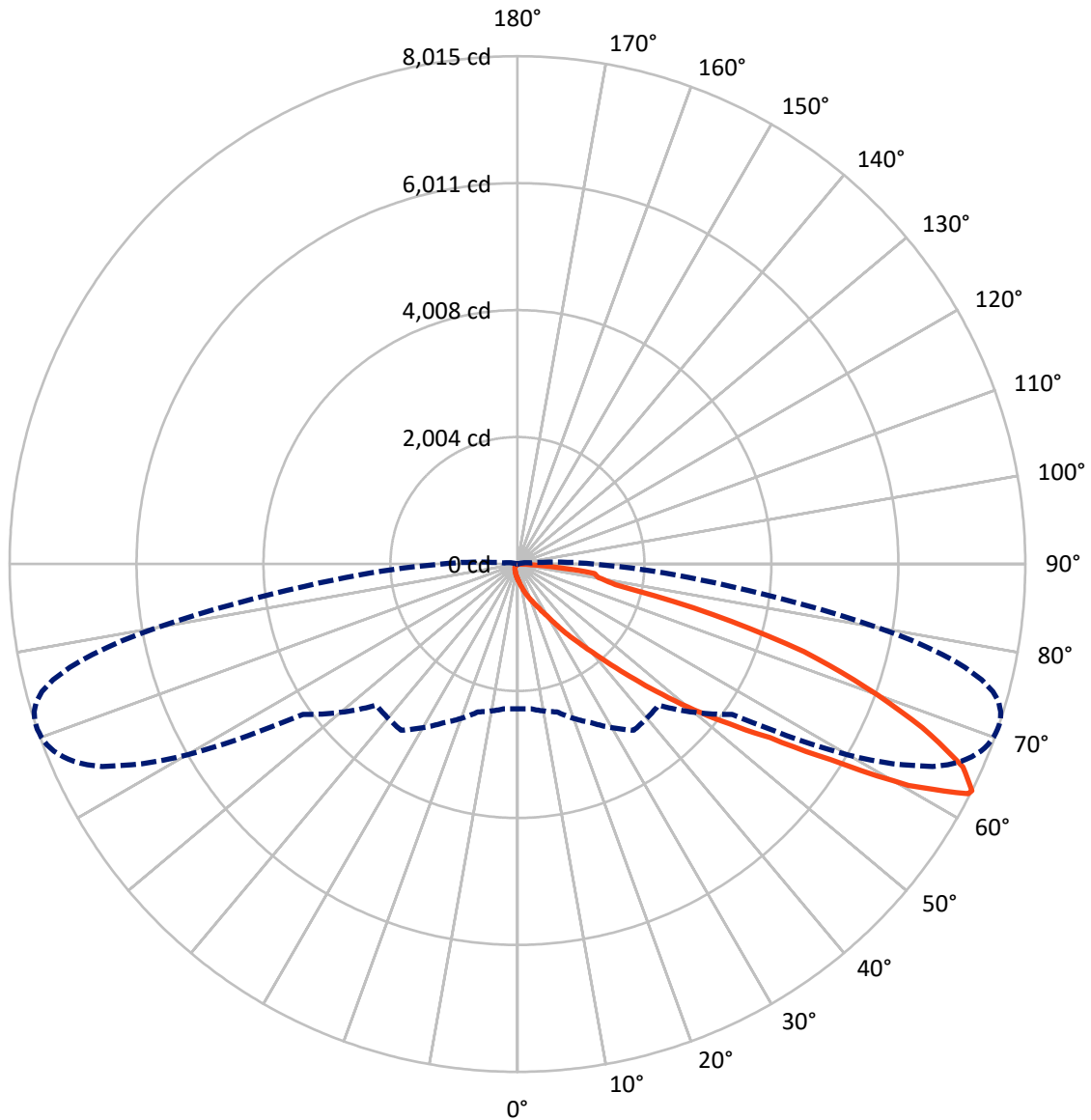
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 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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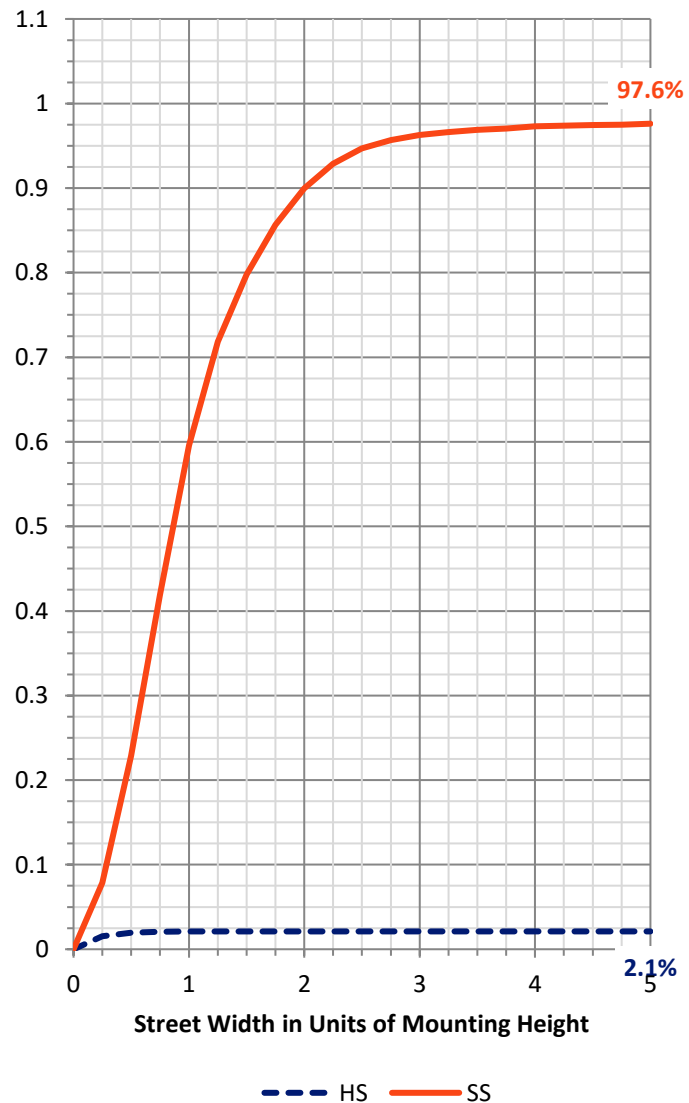
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	127.5	0.0	127.5
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	5876.8	0.0	5876.8
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	6004.3	0.0	6004.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.5	0.4
10°-20°	98.7	1.6
20°-30°	200.5	3.3
30°-40°	489.9	8.2
40°-50°	1095.7	18.2
50°-60°	1540.7	25.7
60°-70°	1811.7	30.2
70°-80°	654.2	10.9
80°-90°	87.5	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°	6004.3	100.0
0°-180°	6004.3	100.0



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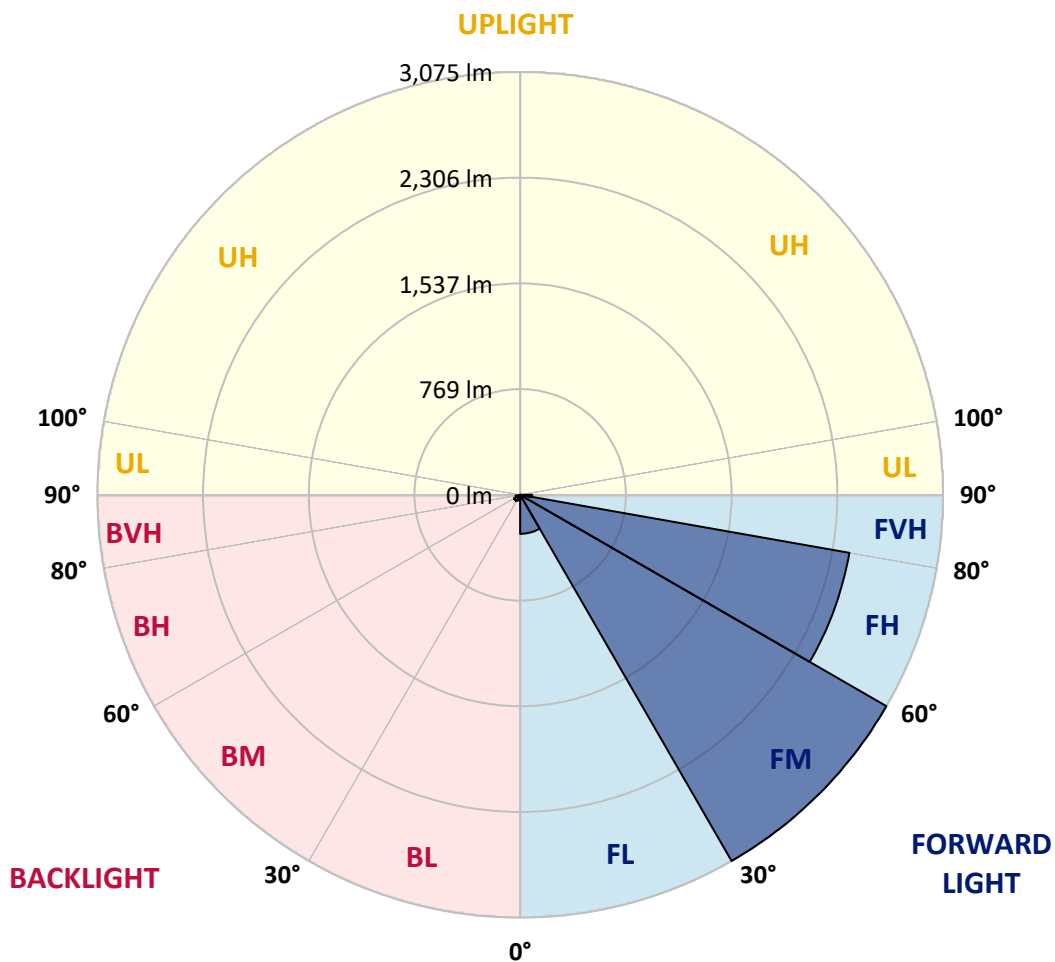
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.7	4.7			
FM	(30°-60°)	3074.9	51.2			
FH	(60°-80°)	2430.9	40.5			G2/5000
FVH	(80°-90°)	87.3	1.5			G1/100
BL	(0°-30°)	41.0	0.7	B0/110		
BM	(30°-60°)	51.4	0.9	B0/220		
BH	(60°-80°)	35.0	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°	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3
2.5°	301.3	304.5	302.4	296.9	290.3	281.6	274.0	274.0	272.9	269.6	270.7
5°	395.1	396.2	391.9	378.8	366.8	348.2	327.5	325.3	323.1	319.8	318.8
7.5°	486.8	491.2	486.8	472.6	448.6	420.2	387.5	384.3	377.7	377.7	373.3
10°	580.7	580.7	576.3	559.9	538.1	497.8	456.3	450.8	443.2	441.0	434.4
12.5°	647.3	647.3	645.1	636.4	618.9	582.9	532.7	527.2	517.4	514.1	506.5
15°	673.5	673.5	674.6	682.2	683.3	667.0	614.6	610.2	600.4	591.6	588.4
17.5°	689.8	688.8	688.8	699.7	719.4	730.2	696.4	692.1	681.1	676.7	665.9
20°	725.9	723.7	717.1	717.1	735.7	773.9	773.9	772.8	760.8	757.6	752.1
22.5°	779.4	777.2	757.6	741.2	749.9	797.9	842.7	840.5	836.2	831.8	828.5
25°	866.7	859.0	825.2	777.2	769.5	820.8	895.1	900.5	903.8	903.8	906.0
27.5°	998.7	989.0	928.9	839.4	805.6	858.0	952.9	963.8	973.7	975.9	985.6
30°	1182.1	1164.7	1078.5	947.5	870.0	912.5	1038.0	1050.1	1064.2	1068.6	1083.9
32.5°	1483.4	1473.6	1390.6	1194.1	1028.3	1019.5	1157.0	1172.3	1190.9	1198.5	1217.1
35°	1941.9	1944.1	1876.4	1699.5	1470.3	1350.3	1369.9	1383.0	1389.5	1412.4	1422.3
37.5°	2253.0	2258.4	2273.7	2203.8	2040.1	1917.9	1763.9	1778.1	1744.3	1747.6	1748.7
40°	2423.3	2440.7	2530.2	2597.9	2584.8	2513.8	2390.5	2398.1	2334.8	2320.6	2251.8
42.5°	2536.8	2559.7	2702.7	2912.2	3019.3	3083.6	3055.2	3052.0	3002.9	2984.3	2926.4
45°	2607.7	2628.5	2808.5	3117.5	3364.1	3551.9	3629.4	3638.1	3596.7	3578.1	3530.0
47.5°	2604.4	2628.5	2821.6	3193.9	3557.4	3857.5	4075.9	4086.7	4111.9	4095.5	4098.8
50°	2460.3	2483.3	2677.5	3064.0	3500.6	3997.3	4396.8	4431.7	4472.1	4499.3	4512.4
52.5°	2285.7	2302.1	2474.5	2841.3	3258.3	3939.4	4586.7	4646.7	4706.8	4758.1	4794.1
55°	2221.3	2239.9	2375.2	2679.8	3064.0	3697.1	4675.1	4763.6	4848.7	4932.7	5001.5
57.5°	2255.1	2272.6	2369.7	2603.3	2948.3	3441.7	4700.2	4837.8	4977.5	5113.9	5249.3
60°	2379.6	2398.1	2481.1	2674.3	2917.7	3294.3	4602.0	4830.1	5062.6	5300.6	5524.4
62.5°	2330.4	2338.1	2460.3	2798.7	3136.0	3168.7	4245.1	4563.8	4918.5	5285.3	5646.6
63°	2283.5	2292.3	2416.7	2764.9	3202.6	3150.2	4134.8	4471.0	4845.4	5240.5	5633.5
65°	2070.7	2071.8	2166.8	2441.8	3128.4	3183.0	3643.6	3964.5	4394.6	4868.3	5364.9
67.5°	1545.7	1538.0	1629.7	1839.3	2456.0	3184.1	3127.3	3307.4	3606.5	4026.7	4472.1
70°	548.0	536.0	684.4	974.8	1530.3	2604.4	2687.4	2699.4	2782.3	3009.4	3288.9
72.5°	177.9	181.2	218.3	356.9	705.2	1753.0	2433.1	2395.9	2374.1	2373.0	2410.2
75°	71.0	72.0	87.3	158.3	316.5	844.9	2130.7	2151.4	2159.1	2170.0	2182.0
77.5°	33.8	37.1	49.1	88.4	157.2	418.1	1524.9	1700.6	1801.1	1878.6	1925.5
80°	12.0	14.2	27.3	54.6	73.1	192.1	803.4	969.3	1116.6	1306.6	1470.3
82.5°	0.0	0.0	5.5	38.2	40.4	77.5	329.6	386.4	442.0	573.0	735.7
85°	0.0	0.0	0.0	10.9	12.0	13.1	111.3	134.2	150.6	175.8	203.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	6.5	16.3	25.1
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3
2.5°	268.5	267.4	267.4	265.2	264.1	262.0	260.9	257.6	256.5	256.5	256.5
5°	317.6	313.3	311.1	305.7	302.4	301.3	295.8	293.6	290.3	291.4	286.0
7.5°	372.2	364.6	361.3	353.7	351.5	343.8	341.6	336.2	332.9	326.4	324.2
10°	432.3	422.4	417.0	405.0	401.7	396.2	389.7	383.1	377.7	371.2	367.8
12.5°	501.0	492.3	487.9	471.6	463.9	456.3	447.5	438.8	430.1	424.6	417.0
15°	581.8	567.6	563.2	548.0	534.9	525.0	513.0	502.1	495.6	484.7	477.0
17.5°	661.5	647.3	644.0	621.1	606.9	600.4	587.3	573.0	561.1	550.1	538.1
20°	741.2	731.4	722.6	700.8	685.5	674.6	657.1	642.9	633.1	617.8	602.5
22.5°	820.8	811.0	804.5	781.5	767.4	752.1	736.8	721.5	707.3	688.8	671.3
25°	902.7	896.2	892.9	872.1	859.0	844.9	829.6	812.1	794.6	773.9	755.3
27.5°	987.9	990.0	983.5	979.1	964.9	955.1	931.1	919.1	906.0	880.9	858.0
30°	1095.9	1102.5	1100.3	1103.5	1094.8	1088.3	1069.7	1054.4	1039.2	1015.2	989.0
32.5°	1232.4	1241.1	1245.5	1257.5	1253.1	1250.9	1245.5	1223.7	1212.7	1171.3	1160.3
35°	1443.0	1438.6	1457.2	1467.1	1462.7	1460.5	1454.0	1441.9	1428.8	1399.3	1372.1
37.5°	1717.0	1721.4	1728.0	1708.3	1695.2	1694.1	1674.4	1662.5	1643.9	1611.1	1578.4
40°	2219.1	2191.8	2161.3	2078.3	2042.3	2021.5	1963.7	1947.3	1915.7	1870.9	1837.1
42.5°	2871.9	2844.6	2752.9	2614.3	2540.0	2437.4	2390.5	2332.7	2287.9	2214.8	2175.5
45°	3520.3	3441.7	3430.7	3269.2	3177.5	3042.1	2958.1	2860.9	2759.4	2663.4	2593.6
47.5°	4067.1	4049.7	3996.2	3898.0	3812.8	3699.2	3591.2	3441.7	3336.9	3200.4	3074.9
50°	4504.8	4503.7	4484.1	4427.3	4356.4	4264.7	4169.7	4043.1	3924.2	3757.1	3622.9
52.5°	4832.3	4849.8	4856.3	4838.8	4811.6	4730.8	4682.7	4576.9	4476.5	4334.5	4189.4
55°	5072.5	5136.9	5169.6	5206.7	5199.1	5170.7	5168.5	5099.7	5053.9	4941.5	4838.8
57.5°	5369.3	5475.2	5576.8	5756.8	5763.4	5826.7	5859.5	5892.2	5900.9	5856.1	5822.3
60°	5747.0	5963.2	6155.3	6531.8	6630.1	6785.1	6885.5	6994.7	7087.4	7095.1	7092.9
62.5°	6013.3	6346.3	6656.3	7215.2	7406.2	7585.2	7719.4	7825.3	7889.7	7955.2	7985.8
63°	6021.0	6385.6	6715.2	7291.5	7492.4	7662.7	7790.4	7888.6	7956.3	7995.6	8015.3
65°	5836.5	6278.6	6671.6	7245.7	7434.5	7605.9	7672.5	7736.9	7769.6	7784.9	7727.1
67.5°	4946.9	5379.2	5837.6	6479.4	6641.0	6846.2	6900.8	6933.6	6948.8	6945.5	6896.4
70°	3699.2	4061.7	4571.4	5304.9	5518.9	5719.7	5844.1	5897.7	5915.1	5909.6	5836.5
72.5°	2582.6	2795.4	3215.7	4032.2	4323.7	4581.3	4735.1	4814.8	4831.2	4798.5	4730.8
75°	2168.9	2179.9	2274.8	2721.2	2994.1	3269.2	3442.7	3493.0	3460.2	3360.9	3188.4
77.5°	1936.4	1960.4	1960.4	2027.0	2080.5	2156.9	2173.3	2051.0	1909.1	1725.7	1577.3
80°	1624.2	1708.3	1767.2	1816.3	1821.8	1806.5	1766.1	1697.4	1588.2	1448.5	1293.5
82.5°	986.8	1152.7	1220.3	1473.6	1598.0	1682.1	1675.6	1583.9	1500.9	1355.7	1223.7
85°	248.9	268.5	291.4	378.8	424.6	518.5	577.4	604.7	614.6	564.3	510.9
87.5°	24.0	16.3	27.3	20.7	29.4	21.8	29.4	27.3	33.8	36.0	39.3
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°	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3
2.5°	254.3	253.3	252.1	251.0	250.0	248.9	246.7	246.7	244.5	243.4	242.3
5°	282.7	280.5	279.5	277.2	274.0	271.8	268.5	264.1	260.9	259.8	257.6
7.5°	318.8	313.3	311.1	307.8	303.4	296.9	292.6	289.3	283.8	280.5	274.0
10°	359.1	353.7	347.1	340.6	334.0	326.4	320.9	316.5	307.8	303.4	295.8
12.5°	410.4	400.6	393.0	384.3	375.5	366.8	360.2	347.1	339.5	329.6	323.1
15°	462.8	454.1	445.4	434.4	421.3	407.1	400.6	388.6	378.8	363.5	354.7
17.5°	526.1	509.8	496.7	483.6	471.6	458.5	445.4	426.8	412.6	399.5	382.0
20°	588.4	568.7	554.5	537.0	519.6	498.8	483.6	470.5	450.8	433.3	414.8
22.5°	654.9	635.3	612.3	594.9	570.9	554.5	533.7	511.9	492.3	469.4	446.4
25°	735.7	715.0	688.8	665.9	638.5	615.6	590.5	565.4	541.4	515.2	485.7
27.5°	835.0	813.2	784.8	757.6	721.5	693.2	669.1	635.3	604.7	572.0	538.1
30°	960.6	936.6	901.7	862.4	826.3	794.6	760.8	716.0	682.2	642.9	599.2
32.5°	1124.3	1095.9	1049.0	1011.8	967.1	925.6	878.7	833.9	785.9	734.6	684.4
35°	1330.6	1304.4	1249.8	1195.2	1146.1	1097.0	1038.0	986.8	919.1	856.9	792.5
37.5°	1544.6	1497.6	1447.4	1388.5	1327.3	1268.3	1196.3	1125.4	1047.9	980.2	899.4
40°	1789.1	1732.3	1690.8	1627.5	1541.3	1457.2	1390.6	1302.2	1205.1	1114.5	1019.5
42.5°	2124.2	2060.8	1986.6	1890.5	1828.4	1730.1	1643.9	1539.1	1411.4	1309.9	1195.2
45°	2511.6	2425.4	2353.4	2260.6	2185.3	2063.1	1962.6	1822.9	1695.2	1562.0	1422.3
47.5°	2953.8	2846.7	2742.0	2650.3	2530.2	2410.2	2282.4	2134.0	1970.3	1824.0	1658.1
50°	3461.3	3309.6	3164.4	3046.5	2881.7	2743.0	2604.4	2437.4	2256.2	2088.2	1899.3
52.5°	4025.6	3849.9	3657.8	3476.6	3285.6	3107.6	2940.7	2748.5	2546.6	2341.4	2130.7
55°	4706.8	4574.7	4348.7	4118.4	3863.0	3625.0	3410.0	3172.1	2926.4	2656.8	2435.2
57.5°	5773.2	5708.8	5520.0	5289.7	4956.7	4667.5	4302.9	4011.5	3655.6	3284.5	2998.5
60°	7218.4	7138.7	7032.9	6846.2	6582.0	6189.1	5787.4	5334.4	4793.0	4278.9	3790.9
62.5°	7989.1	7960.7	7874.4	7745.6	7499.0	7189.0	6784.0	6286.2	5675.0	5050.6	4428.4
63°	8012.0	7976.0	7901.7	7770.7	7553.5	7253.3	6856.0	6372.5	5774.3	5137.9	4502.7
65°	7702.0	7687.8	7612.5	7469.5	7321.0	7091.8	6784.0	6368.1	5866.0	5264.5	4632.6
67.5°	6830.9	6788.3	6672.7	6629.0	6525.3	6365.9	6131.2	5845.3	5486.1	5013.5	4467.7
70°	5777.6	5714.3	5569.1	5491.6	5364.9	5264.5	5121.5	4917.4	4695.8	4366.2	3959.1
72.5°	4660.9	4529.9	4396.8	4194.8	4018.0	3839.0	3680.7	3536.6	3293.2	3160.0	2851.1
75°	3026.9	2788.9	2560.8	2255.1	1980.1	1736.7	1499.8	1379.7	1129.7	1028.3	883.1
77.5°	1436.5	1303.3	1124.3	985.6	808.8	660.4	539.2	405.0	317.6	248.9	189.9
80°	1159.2	1046.8	938.7	813.2	680.1	542.5	415.9	311.1	220.5	152.8	108.0
82.5°	1033.7	911.4	778.3	692.1	601.5	492.3	403.9	329.6	243.4	177.9	121.1
85°	401.7	338.4	260.9	212.8	165.9	136.5	123.4	85.1	66.6	52.4	40.4
87.5°	34.9	28.4	22.9	15.3	16.3	8.7	9.8	6.5	5.5	5.5	4.4
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3
2.5°	241.2	240.2	239.0	236.9	236.9	234.7	233.6	232.5	227.1	215.0	205.2
5°	253.3	251.0	248.9	245.6	243.4	240.2	237.9	234.7	222.7	199.7	180.1
7.5°	270.7	266.4	263.1	256.5	253.3	248.9	245.6	240.2	220.5	185.5	158.3
10°	291.4	283.8	278.3	270.7	264.1	258.7	253.3	245.6	218.3	170.3	138.6
12.5°	316.5	307.8	296.9	288.2	279.5	271.8	264.1	254.3	215.0	157.2	123.4
15°	341.6	328.5	320.9	308.9	296.9	286.0	275.1	266.4	216.1	143.0	110.3
17.5°	370.0	356.9	340.6	327.5	314.4	300.2	287.1	269.6	210.7	132.1	100.4
20°	397.4	378.8	363.5	347.1	328.5	311.1	294.7	279.5	206.3	121.1	91.7
22.5°	426.8	405.0	385.3	364.6	341.6	322.0	302.4	282.7	198.6	111.3	84.1
25°	462.8	437.7	409.3	384.3	360.2	336.2	311.1	287.1	191.0	102.6	78.6
27.5°	506.5	473.7	445.4	413.7	379.9	349.3	322.0	295.8	183.4	96.1	73.1
30°	562.2	523.9	483.6	443.2	407.1	372.2	334.0	301.3	175.8	89.5	67.7
32.5°	636.4	588.4	539.2	492.3	444.3	399.5	359.1	316.5	171.4	84.1	62.2
35°	734.6	672.4	612.3	553.4	495.6	441.0	388.6	340.6	171.4	77.5	55.6
37.5°	827.4	755.3	679.0	605.8	537.0	473.7	411.5	353.7	162.7	72.0	50.2
40°	927.8	841.6	752.1	665.9	582.9	504.3	433.3	366.8	155.0	65.5	44.8
42.5°	1081.7	972.5	855.8	755.3	656.0	558.9	470.5	391.9	145.2	58.9	39.3
45°	1283.7	1145.1	1007.5	885.2	758.6	639.7	534.9	437.7	143.0	53.5	33.8
47.5°	1499.8	1336.1	1174.5	1018.4	870.0	731.4	605.8	489.0	143.0	48.0	29.4
50°	1714.9	1509.6	1337.2	1155.9	989.0	825.2	675.7	542.5	144.1	43.7	24.0
52.5°	1909.1	1689.7	1496.5	1286.9	1102.5	912.5	749.9	594.9	141.9	38.2	19.6
55°	2178.7	1921.1	1697.4	1466.0	1249.8	1035.9	851.4	673.5	143.0	33.8	16.3
57.5°	2675.4	2373.0	2103.4	1800.0	1551.1	1274.9	1051.1	835.0	156.1	28.4	12.0
60°	3388.2	2995.2	2616.4	2246.4	1929.8	1601.3	1311.0	1056.6	183.4	22.9	8.7
62.5°	3867.4	3353.2	2901.4	2493.1	2125.2	1781.4	1464.8	1175.6	202.0	18.6	5.5
63°	3916.5	3384.9	2930.8	2509.5	2134.0	1790.1	1471.4	1184.4	203.0	17.5	5.5
65°	4009.3	3439.5	2947.2	2512.7	2125.2	1778.1	1467.1	1183.2	205.2	14.2	4.4
67.5°	3903.4	3355.4	2852.2	2418.9	2048.9	1707.2	1412.4	1139.6	204.1	9.8	3.2
70°	3490.7	3036.7	2594.6	2190.7	1854.6	1545.7	1285.8	1039.2	187.8	6.5	2.2
72.5°	2563.0	2254.1	1911.3	1619.9	1397.2	1160.3	990.0	780.5	145.2	4.4	1.1
75°	759.7	692.1	581.8	513.0	453.0	374.4	332.9	259.8	74.2	2.2	0.0
77.5°	151.7	137.5	123.4	112.4	105.9	90.6	86.2	71.0	30.6	1.1	0.0
80°	79.7	65.5	55.6	49.1	42.5	34.9	29.4	24.0	5.5	0.0	0.0
82.5°	76.4	51.3	37.1	30.6	26.2	20.7	16.3	12.0	3.2	0.0	0.0
85°	28.4	21.8	16.3	13.1	10.9	9.8	7.6	6.5	0.0	0.0	0.0
87.5°	4.4	3.2	3.2	2.2	2.2	1.1	1.1	1.1	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-8030-HSS

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	230.3	230.3	230.3	230.3	230.3	230.3	230.3
2.5°	195.4	186.6	182.3	176.8	176.8	175.8	177.9
5°	162.7	150.6	141.9	135.4	136.5	133.1	134.2
7.5°	137.5	125.5	117.9	113.5	112.4	111.3	111.3
10°	119.0	108.0	101.5	98.2	97.2	97.2	97.2
12.5°	105.9	94.9	89.5	87.3	87.3	86.2	86.2
15°	94.9	86.2	80.8	78.6	78.6	77.5	78.6
17.5°	86.2	77.5	73.1	71.0	71.0	69.9	69.9
20°	78.6	71.0	66.6	63.3	63.3	62.2	63.3
22.5°	72.0	64.4	58.9	56.8	55.6	54.6	55.6
25°	65.5	57.9	52.4	49.1	48.0	48.0	46.9
27.5°	60.0	52.4	45.8	42.5	41.5	41.5	40.4
30°	54.6	45.8	39.3	36.0	34.9	34.9	34.9
32.5°	49.1	39.3	33.8	30.6	29.4	29.4	29.4
35°	43.7	33.8	28.4	25.1	24.0	24.0	24.0
37.5°	37.1	28.4	21.8	19.6	18.6	17.5	17.5
40°	31.7	21.8	16.3	14.2	12.0	12.0	12.0
42.5°	26.2	17.5	12.0	8.7	7.6	6.5	7.6
45°	21.8	13.1	7.6	4.4	3.2	3.2	3.2
47.5°	17.5	8.7	3.2	1.1	1.1	1.1	1.1
50°	13.1	5.5	1.1	0.0	0.0	1.1	1.1
52.5°	9.8	3.2	0.0	0.0	0.0	0.0	0.0
55°	5.5	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	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)