

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: P145775

Luminaire Tested: **LDRL-SLL-F06-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145775
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-F06-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13341 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

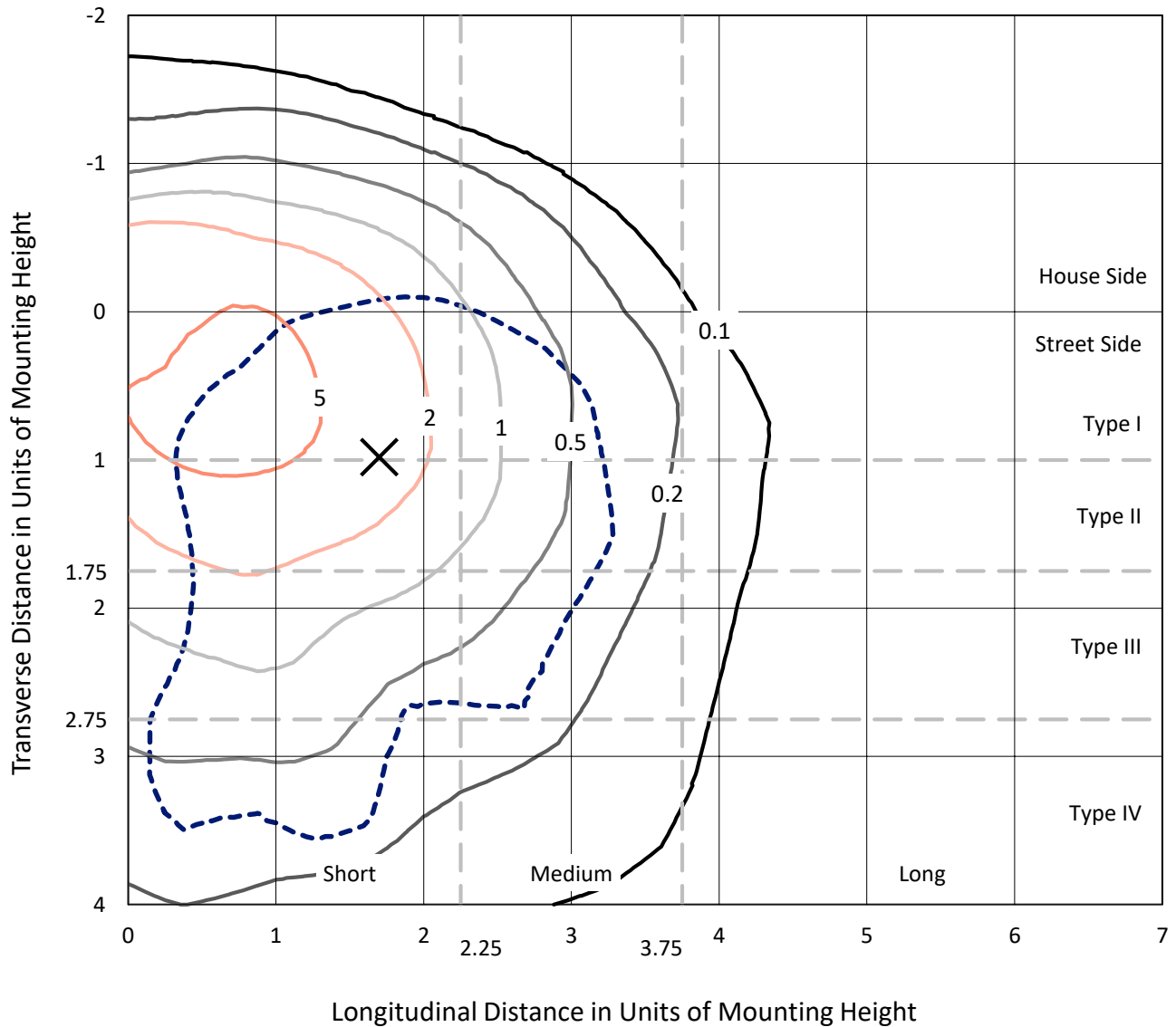
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

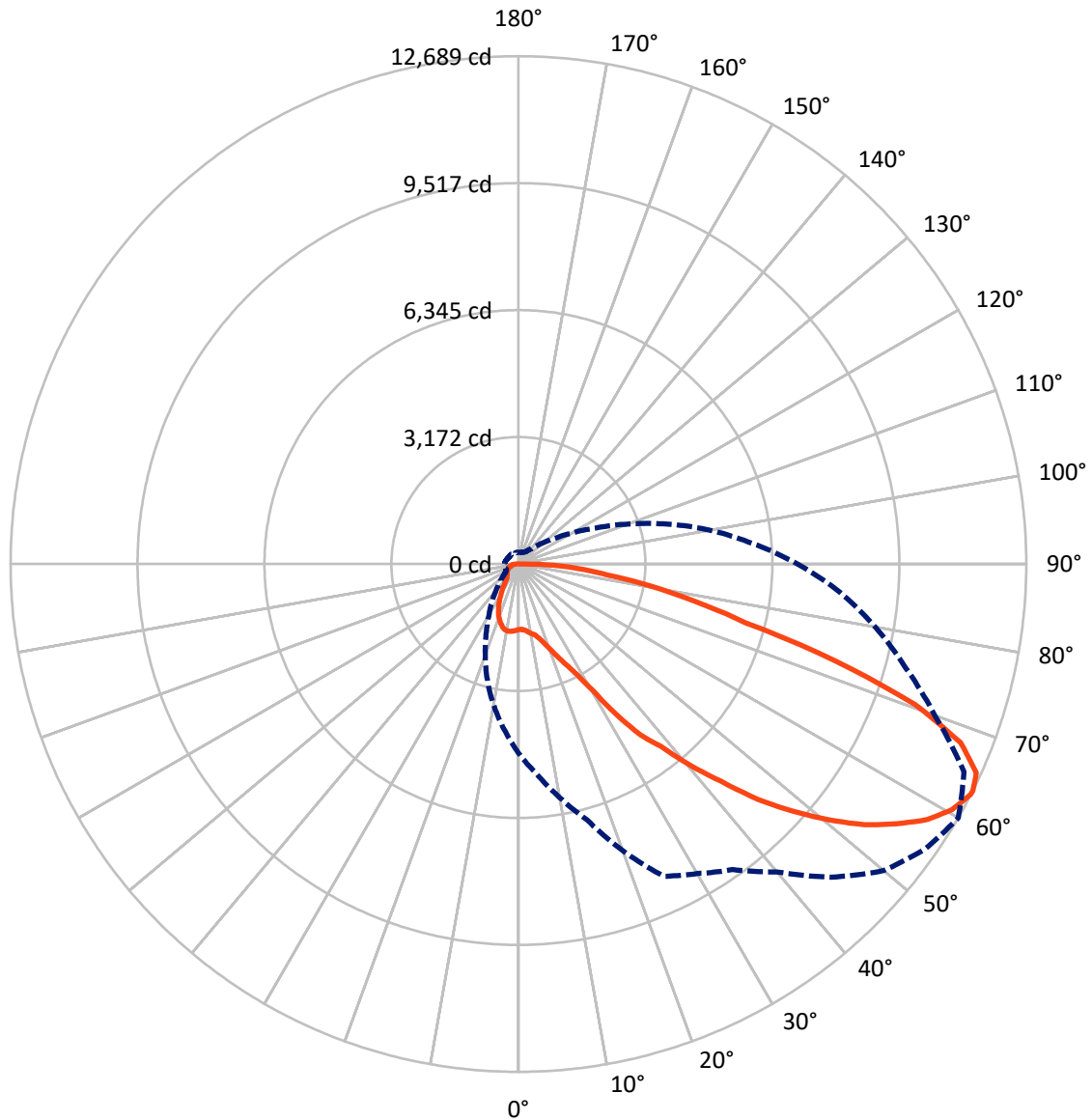
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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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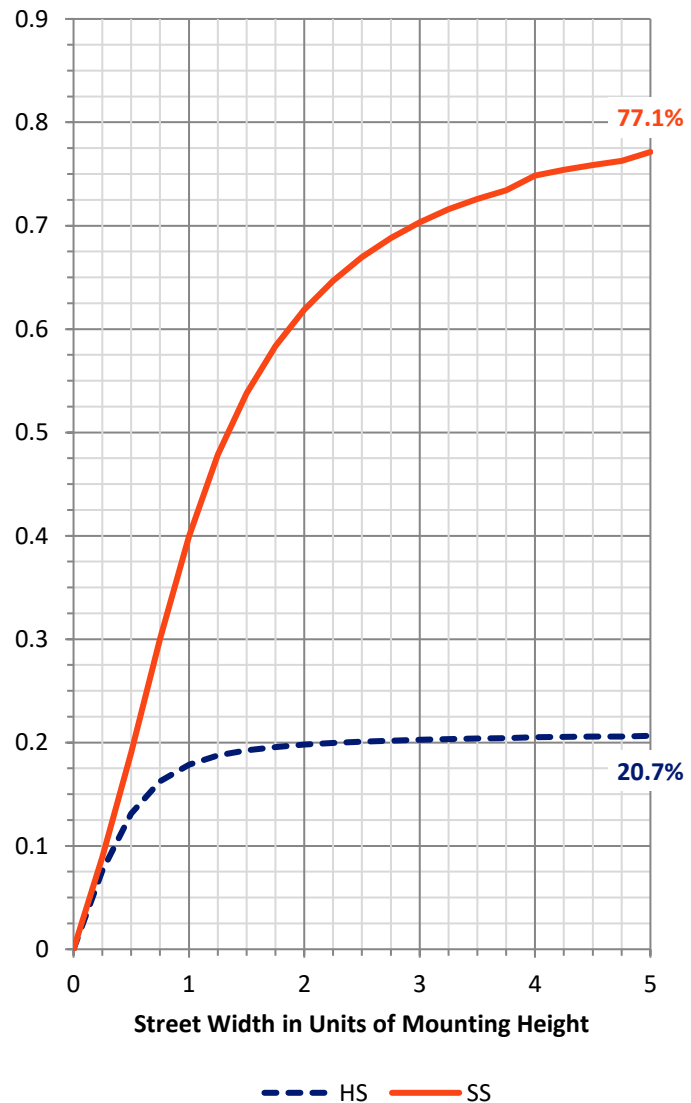
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2792.7	0.0	2792.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10548.3	0.0	10548.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	13341.0	0.0	13341.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	1.2
10°-20°	502.2	3.8
20°-30°	888.2	6.7
30°-40°	1402.2	10.5
40°-50°	2061.9	15.5
50°-60°	2716.1	20.4
60°-70°	3027.3	22.7
70°-80°	1989.0	14.9
80°-90°	593.2	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°	13341.0	100.0
0°-180°	13341.0	100.0



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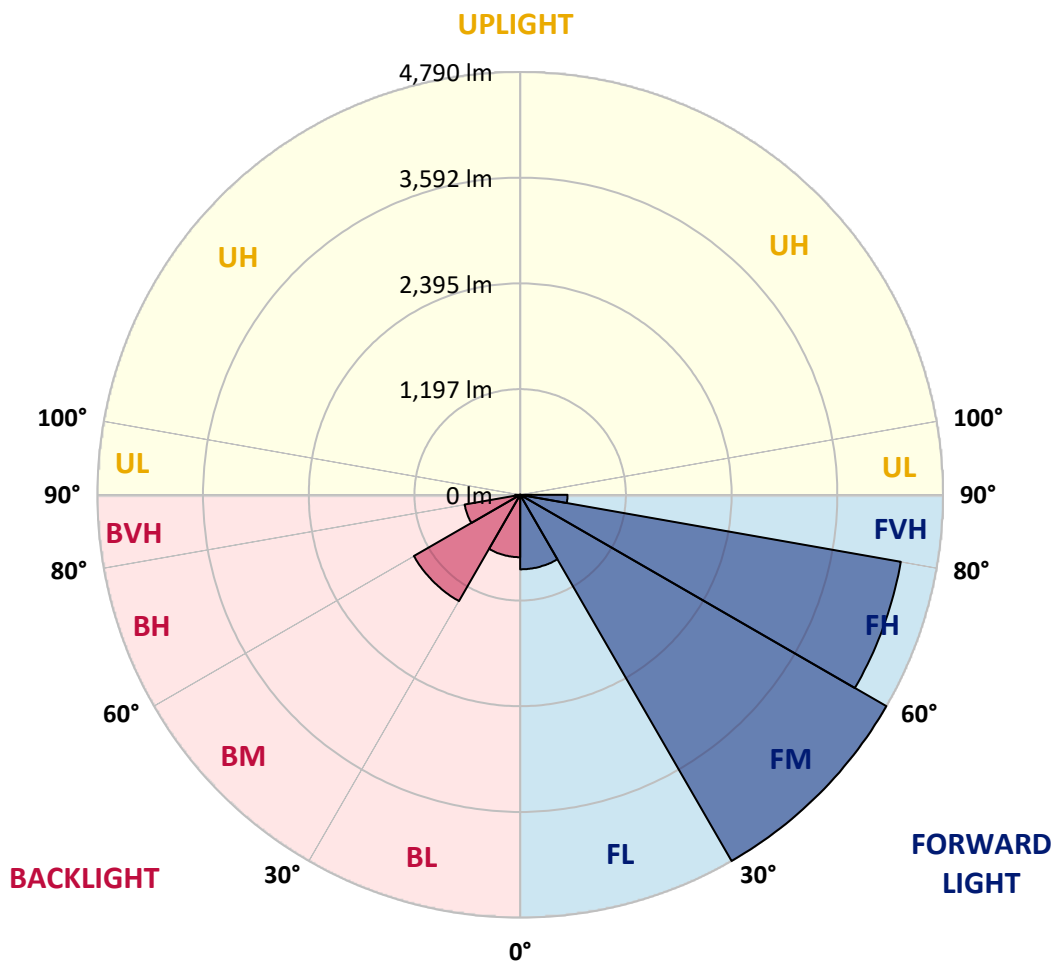
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.4	6.3			
FM	(30°-60°)	4789.8	35.9			
FH	(60°-80°)	4378.1	32.8			G2/5000
FVH	(80°-90°)	536.1	4.0			G4/750
BL	(0°-30°)	706.9	5.3	B2/1000		
BM	(30°-60°)	1390.4	10.4	B2/2500		
BH	(60°-80°)	638.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	57.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1636.5	1637.5	1634.5	1633.5	1631.6	1632.6	1632.6	1630.6	1630.6	1631.6	1628.6
5°	1628.6	1630.6	1629.6	1631.6	1633.5	1636.5	1639.5	1642.5	1645.4	1649.4	1650.4
7.5°	1619.7	1625.6	1626.6	1632.6	1639.5	1647.4	1657.3	1668.2	1683.1	1687.0	1696.0
10°	1624.6	1635.5	1641.5	1653.4	1664.3	1679.1	1696.9	1707.8	1726.7	1733.6	1746.5
12.5°	1663.3	1671.2	1679.1	1693.0	1708.8	1727.7	1747.5	1764.3	1784.1	1791.1	1796.0
15°	1736.6	1744.5	1753.4	1767.3	1784.1	1806.9	1835.6	1856.4	1880.2	1898.0	1910.9
17.5°	1838.6	1838.6	1859.4	1863.4	1896.1	1930.7	1966.4	2007.0	2031.8	2046.6	2070.4
20°	1985.2	1985.2	2013.0	2025.8	2053.6	2098.2	2146.7	2191.3	2226.9	2256.7	2278.4
22.5°	2238.8	2227.9	2251.7	2248.7	2282.4	2348.8	2396.3	2421.1	2468.6	2486.5	2515.2
25°	2533.0	2571.7	2597.4	2597.4	2611.3	2679.7	2719.3	2738.1	2781.7	2768.8	2798.5
27.5°	2893.6	2997.6	3093.7	3133.4	3114.5	3189.8	3203.7	3221.5	3216.6	3185.9	3177.0
30°	3248.3	3431.5	3581.1	3672.3	3777.3	3922.9	3922.9	3946.7	3895.2	3810.0	3759.4
32.5°	3494.0	3729.7	3958.6	4147.8	4326.1	4549.0	4643.1	4773.8	4795.6	4828.3	4715.4
35°	3696.0	4026.9	4272.6	4556.9	4774.8	5000.7	5251.3	5478.2	5628.8	5604.0	5559.4
37.5°	3834.7	4259.7	4602.5	4936.3	5268.2	5526.7	5764.5	6060.7	6348.9	6406.4	6285.5
40°	3931.8	4424.2	4895.7	5305.8	5722.9	6111.2	6400.5	6718.5	7170.2	7361.4	7262.3
42.5°	3978.4	4552.9	5079.0	5601.0	6129.0	6619.4	6982.0	7417.8	7953.8	8280.7	8171.7
45°	3998.2	4632.2	5227.6	5821.9	6455.9	7061.2	7528.8	8023.1	8626.4	9151.4	9171.3
47.5°	3993.2	4674.8	5329.6	5979.4	6712.5	7416.8	8043.9	8604.6	9288.1	9839.9	10045.0
50°	3979.4	4689.6	5391.0	6074.5	6874.0	7677.4	8383.7	9050.4	9814.2	10512.6	10824.6
52.5°	3978.4	4692.6	5421.7	6127.0	6969.1	7836.9	8596.7	9384.2	10221.3	10951.4	11437.8
55°	4002.1	4710.4	5455.4	6163.7	7020.6	7927.0	8716.6	9593.3	10398.6	11227.8	11855.9
57.5°	4098.2	4793.7	5535.6	6226.1	7078.1	7998.3	8809.7	9653.7	10451.1	11342.7	12098.6
60°	4309.2	4949.2	5675.3	6341.0	7227.6	8185.6	8897.8	9568.5	10352.1	11310.0	12133.2
62.5°	4638.1	5198.8	5870.5	6553.0	7531.8	8541.2	8934.5	9373.3	10107.4	11121.8	11983.7
63°	4722.3	5265.2	5922.0	6611.5	7619.9	8608.6	8931.5	9321.8	10040.0	11066.3	11916.3
65°	5074.0	5572.3	6161.7	6890.8	8021.1	8822.5	8823.5	9018.7	9696.3	10760.2	11639.9
67.5°	5603.0	6078.5	6534.2	7259.3	8464.9	8929.5	8503.6	8356.0	8955.3	10112.4	10938.5
70°	5955.7	6543.1	6798.7	7356.4	8525.4	8799.8	7997.4	7505.0	8002.3	8969.2	9703.2
72.5°	5964.6	6634.2	6708.5	6942.3	7959.7	8179.6	7125.6	6458.9	6758.1	7569.4	7955.7
75°	5327.6	6169.6	6017.1	5930.9	6481.7	6575.8	5763.5	5486.1	5869.5	6348.9	6155.8
77.5°	3960.5	5080.0	4769.9	4403.3	4603.5	4617.3	4643.1	5166.1	5636.7	5832.8	5551.5
80°	2457.8	3731.7	3494.0	2889.7	2966.9	3194.8	3878.3	4802.6	5317.7	5458.4	4895.7
82.5°	1482.0	2745.0	2618.2	2205.1	2302.2	2869.9	3625.7	3881.3	4054.6	4041.8	3460.3
85°	1085.7	1864.4	2036.7	2067.4	2412.2	2786.6	2770.8	2581.6	2475.6	2178.4	1859.4
87.5°	341.8	961.9	1141.2	1330.4	1457.2	1379.0	1356.2	1171.9	839.1	709.3	779.6
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°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1628.6	1632.6	1634.5	1633.5	1634.5	1634.5	1640.5	1638.5	1640.5	1639.5	1645.4
5°	1653.4	1659.3	1664.3	1664.3	1665.2	1667.2	1675.2	1675.2	1679.1	1687.0	1691.0
7.5°	1701.9	1709.8	1710.8	1712.8	1718.7	1715.8	1720.7	1722.7	1725.7	1729.6	1734.6
10°	1752.4	1763.3	1763.3	1762.3	1763.3	1755.4	1758.4	1752.4	1753.4	1759.4	1765.3
12.5°	1808.9	1814.8	1810.9	1807.9	1807.9	1793.0	1791.1	1783.1	1779.2	1780.2	1782.1
15°	1921.8	1916.9	1915.9	1910.9	1893.1	1882.2	1874.3	1849.5	1836.6	1829.7	1817.8
17.5°	2072.4	2075.4	2070.4	2065.5	2039.7	2003.1	1987.2	1960.5	1942.6	1924.8	1903.0
20°	2292.3	2272.5	2270.5	2254.7	2219.0	2167.5	2128.9	2085.3	2060.5	2034.8	2012.0
22.5°	2535.0	2514.2	2500.3	2469.6	2417.1	2351.8	2287.4	2231.9	2194.2	2175.4	2159.6
25°	2804.5	2792.6	2769.8	2691.5	2649.9	2574.6	2504.3	2449.8	2407.2	2391.4	2363.6
27.5°	3127.4	3136.3	3093.7	3020.4	2967.9	2861.9	2801.5	2707.4	2671.7	2614.3	2578.6
30°	3715.9	3658.4	3586.1	3474.1	3368.1	3225.5	3125.4	3027.4	2974.9	2897.6	2802.5
32.5°	4677.8	4458.8	4264.7	4026.9	3802.0	3619.8	3475.1	3351.3	3271.1	3143.3	2981.8
35°	5453.4	5242.4	4921.4	4575.7	4280.5	4046.7	3864.4	3747.6	3587.1	3383.0	3149.2
37.5°	6022.0	5779.3	5479.2	5214.7	4892.7	4632.2	4385.5	4142.8	3917.0	3607.9	3309.7
40°	6945.3	6616.4	6122.1	5810.0	5546.5	5193.9	4963.1	4636.1	4292.4	3894.2	3462.3
42.5°	7858.7	7422.8	6975.0	6616.4	6242.0	5859.6	5542.6	5103.7	4647.0	4130.9	3599.0
45°	8919.6	8385.7	7800.2	7299.0	6914.6	6464.9	6058.7	5519.8	4937.3	4325.1	3717.8
47.5°	9755.7	9226.7	8566.0	8060.8	7542.7	7035.5	6508.4	5843.7	5153.3	4483.6	3828.8
50°	10557.1	10047.0	9344.6	8724.5	8129.1	7516.9	6879.9	6073.6	5322.7	4607.4	3917.0
52.5°	11276.3	10822.6	10063.8	9322.8	8657.1	7951.8	7162.3	6288.5	5485.1	4735.2	3986.3
55°	11885.6	11460.6	10780.0	9857.8	9101.9	8321.3	7428.7	6484.7	5656.5	4868.9	4036.8
57.5°	12294.7	12049.0	11321.9	10328.3	9467.5	8636.3	7629.8	6681.8	5817.0	4952.2	4058.6
60°	12484.9	12452.2	11837.0	10753.3	9792.4	8882.0	7883.4	6890.8	5923.0	4989.8	4027.9
62.5°	12445.3	12679.1	12229.3	11044.5	9999.4	9035.5	8045.9	6981.0	5896.2	4898.7	3892.2
63°	12408.6	12689.0	12284.8	11073.3	10016.3	9050.4	8061.7	6970.1	5871.5	4858.0	3845.6
65°	12140.2	12572.1	12298.7	11021.7	9939.0	9007.8	7990.4	6798.7	5624.8	4602.5	3582.1
67.5°	11482.4	11915.3	11763.7	10454.1	9438.7	8550.1	7492.1	6215.2	5020.5	4059.6	3093.7
70°	10124.2	10511.6	10330.3	9178.2	8235.1	7605.1	6599.6	5169.1	4090.3	3263.1	2354.7
72.5°	8008.3	8280.7	8320.3	7405.0	6682.8	6304.4	5316.7	3899.1	2987.7	2272.5	1528.5
75°	5929.9	5866.5	5879.4	5368.2	5074.0	4914.5	3974.4	2674.7	2013.0	1388.9	906.4
77.5°	4983.9	4528.2	4139.8	3998.2	3655.4	3556.4	2621.2	1641.5	1174.9	831.1	516.1
80°	4052.7	3362.2	2797.5	2546.9	2413.2	2433.0	1450.3	874.7	615.2	452.7	322.9
82.5°	2770.8	2245.8	1771.2	1538.4	1514.7	1537.5	753.9	428.9	324.9	260.5	203.1
85°	1638.5	1542.4	1377.0	1222.4	1168.9	1103.6	560.7	307.1	167.4	138.7	113.9
87.5°	708.3	869.8	890.6	886.6	825.2	662.7	206.1	79.3	70.3	35.7	28.7
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°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1645.4	1646.4	1644.4	1646.4	1653.4	1653.4	1652.4	1654.4	1655.3	1661.3	1659.3
5°	1695.0	1696.0	1696.9	1703.9	1708.8	1714.8	1712.8	1714.8	1718.7	1719.7	1721.7
7.5°	1740.5	1746.5	1754.4	1757.4	1766.3	1768.3	1777.2	1778.2	1780.2	1776.2	1772.2
10°	1772.2	1778.2	1788.1	1793.0	1808.9	1810.9	1817.8	1819.8	1823.7	1820.8	1817.8
12.5°	1788.1	1793.0	1803.9	1813.8	1835.6	1842.6	1854.5	1861.4	1866.3	1863.4	1853.5
15°	1820.8	1819.8	1825.7	1833.7	1853.5	1866.3	1883.2	1892.1	1898.0	1893.1	1880.2
17.5°	1896.1	1882.2	1882.2	1877.2	1892.1	1895.1	1902.0	1907.0	1905.0	1890.1	1869.3
20°	2000.1	1979.3	1966.4	1954.5	1949.6	1924.8	1911.9	1894.1	1878.2	1851.5	1827.7
22.5°	2134.8	2119.9	2090.2	2063.5	2025.8	1975.3	1920.8	1874.3	1839.6	1802.9	1762.3
25°	2338.9	2305.2	2262.6	2199.2	2150.7	2061.5	1970.4	1882.2	1807.9	1750.4	1682.1
27.5°	2531.1	2459.7	2379.5	2280.4	2191.3	2072.4	1956.5	1854.5	1757.4	1665.2	1587.0
30°	2691.5	2567.7	2436.9	2298.3	2171.5	2027.8	1893.1	1777.2	1667.2	1558.3	1484.0
32.5°	2812.4	2634.1	2459.7	2282.4	2125.9	1957.5	1802.9	1679.1	1554.3	1439.4	1353.2
35°	2921.4	2680.6	2452.8	2239.8	2054.6	1868.3	1701.9	1563.2	1426.5	1303.7	1204.6
37.5°	2999.6	2696.5	2423.1	2178.4	1963.4	1759.4	1579.1	1431.5	1284.8	1160.0	1051.1
40°	3060.1	2688.6	2366.6	2084.3	1838.6	1626.6	1450.3	1295.7	1149.1	1024.3	910.4
42.5°	3100.7	2658.9	2281.4	1977.3	1734.6	1512.7	1340.3	1177.9	1031.2	900.5	774.7
45°	3153.2	2647.0	2228.9	1897.1	1640.5	1416.6	1232.3	1073.8	921.3	784.6	664.7
47.5°	3202.7	2640.0	2186.3	1830.7	1555.3	1329.4	1147.1	980.7	827.2	693.4	584.5
50°	3232.4	2629.1	2141.7	1750.4	1460.2	1240.3	1065.9	897.5	743.0	615.2	518.1
52.5°	3241.3	2607.3	2083.3	1659.3	1378.0	1164.0	982.7	814.3	665.7	550.8	460.6
55°	3234.4	2564.7	2004.0	1585.0	1293.8	1079.8	898.5	735.0	600.3	492.3	420.0
57.5°	3200.7	2479.5	1902.0	1490.9	1197.7	973.8	795.5	645.9	526.0	439.8	384.4
60°	3125.4	2356.7	1777.2	1359.1	1060.0	848.0	679.6	550.8	449.7	387.3	350.7
62.5°	2961.0	2179.4	1595.9	1172.9	875.7	680.6	533.9	438.8	370.5	337.8	316.0
63°	2912.5	2118.0	1542.4	1123.4	844.0	642.9	501.3	415.1	353.7	326.9	309.1
65°	2656.9	1834.6	1303.7	903.5	653.8	487.4	382.4	325.9	293.2	283.3	278.4
67.5°	2177.4	1427.5	917.3	606.3	438.8	336.8	282.3	260.5	248.6	247.7	250.6
70°	1538.4	947.0	567.6	388.3	302.1	254.6	233.8	223.9	217.9	219.9	225.9
72.5°	1000.5	555.7	358.6	284.3	245.7	223.9	209.0	206.1	204.1	202.1	204.1
75°	529.0	347.7	271.4	237.8	215.0	197.1	187.2	183.3	184.3	184.3	184.3
77.5°	327.9	264.5	231.8	210.0	192.2	174.4	164.4	161.5	162.5	164.4	165.4
80°	251.6	230.8	204.1	188.2	162.5	147.6	142.7	141.7	143.6	143.6	146.6
82.5°	184.3	178.3	168.4	148.6	128.8	118.9	117.9	121.8	117.9	116.9	118.9
85°	108.0	101.0	110.0	94.1	86.2	80.2	84.2	92.1	96.1	91.1	89.2
87.5°	34.7	23.8	34.7	38.6	34.7	29.7	37.6	44.6	45.6	43.6	49.5
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: P145775

CATALOG NUMBER: LDRL-SLL-F06-E

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1658.3	1665.2	1658.3	1661.3	1660.3	1658.3	1661.3	1657.3	1655.3	1661.3	1660.3
5°	1720.7	1721.7	1712.8	1713.8	1712.8	1704.9	1704.9	1700.9	1696.0	1696.9	1695.0
7.5°	1771.2	1769.3	1762.3	1759.4	1750.4	1744.5	1740.5	1734.6	1730.6	1726.7	1724.7
10°	1809.9	1804.9	1800.0	1791.1	1782.1	1777.2	1766.3	1757.4	1754.4	1748.5	1744.5
12.5°	1843.6	1834.6	1826.7	1815.8	1804.9	1797.0	1784.1	1777.2	1772.2	1764.3	1758.4
15°	1862.4	1845.5	1830.7	1813.8	1802.0	1790.1	1775.2	1772.2	1765.3	1757.4	1746.5
17.5°	1839.6	1815.8	1788.1	1770.3	1752.4	1734.6	1719.7	1719.7	1716.8	1707.8	1689.0
20°	1793.0	1757.4	1724.7	1696.0	1678.1	1652.4	1643.5	1629.6	1619.7	1603.8	1580.1
22.5°	1716.8	1679.1	1636.5	1607.8	1577.1	1548.4	1530.5	1508.7	1500.8	1475.0	1443.3
25°	1631.6	1577.1	1531.5	1493.9	1451.3	1417.6	1392.8	1363.1	1343.3	1318.5	1278.9
27.5°	1530.5	1474.1	1422.5	1380.9	1336.4	1289.8	1244.2	1209.6	1173.9	1145.2	1122.4
30°	1421.6	1363.1	1299.7	1251.2	1199.7	1141.2	1103.6	1057.0	1029.3	997.6	967.8
32.5°	1278.9	1227.4	1153.1	1096.6	1033.2	987.7	956.9	912.4	879.7	852.9	836.1
35°	1122.4	1045.1	970.8	928.2	884.6	848.0	805.4	770.7	748.9	721.2	706.3
37.5°	952.0	861.8	798.4	760.8	716.2	698.4	671.6	650.8	631.0	612.2	600.3
40°	799.4	716.2	658.8	627.1	597.3	577.5	560.7	551.8	538.9	524.0	515.1
42.5°	672.6	606.3	549.8	520.1	497.3	495.3	484.4	477.5	472.5	463.6	449.7
45°	573.6	513.1	464.6	440.8	430.9	431.9	431.9	426.0	426.0	423.0	414.1
47.5°	507.2	452.7	417.1	401.2	397.2	398.2	395.3	393.3	394.3	393.3	388.3
50°	455.7	409.1	379.4	373.5	372.5	371.5	367.5	364.6	363.6	365.5	364.6
52.5°	403.2	364.6	347.7	345.7	346.7	346.7	345.7	344.7	346.7	348.7	345.7
55°	373.5	345.7	334.8	334.8	334.8	334.8	333.8	332.9	335.8	338.8	333.8
57.5°	345.7	325.9	322.0	322.0	322.0	320.0	320.0	321.0	324.9	330.9	324.9
60°	324.9	315.0	315.0	316.0	315.0	311.1	308.1	308.1	313.0	321.0	316.0
62.5°	305.1	300.2	302.1	301.2	299.2	294.2	290.3	290.3	296.2	304.1	306.1
63°	300.2	296.2	298.2	297.2	295.2	291.2	287.3	287.3	292.2	300.2	303.1
65°	278.4	279.4	280.3	281.3	280.3	279.4	274.4	272.4	276.4	282.3	286.3
67.5°	252.6	254.6	256.6	261.5	259.5	259.5	256.6	254.6	255.6	258.6	261.5
70°	228.8	230.8	233.8	235.8	236.8	237.8	235.8	232.8	233.8	234.8	236.8
72.5°	206.1	208.0	210.0	214.0	214.0	214.0	212.0	210.0	211.0	213.0	215.0
75°	185.2	186.2	188.2	191.2	192.2	190.2	190.2	188.2	189.2	192.2	194.2
77.5°	164.4	162.5	163.5	165.4	168.4	168.4	169.4	168.4	170.4	172.4	174.4
80°	140.7	138.7	136.7	137.7	141.7	146.6	151.6	151.6	154.5	155.5	158.5
82.5°	111.9	110.0	109.0	111.9	111.0	117.9	128.8	134.7	138.7	142.7	144.6
85°	87.2	82.2	84.2	84.2	82.2	93.1	103.0	111.0	111.9	117.9	118.9
87.5°	51.5	49.5	47.6	45.6	52.5	63.4	72.3	75.3	77.3	80.2	83.2
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: P145775

CATALOG NUMBER: LDRL-SLL-F06-E

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1652.4	1660.3	1658.3	1657.3	1658.3	1657.3	1654.4	1655.3	1653.4	1654.4	1652.4
5°	1684.1	1688.0	1685.1	1680.1	1680.1	1673.2	1668.2	1664.3	1659.3	1657.3	1653.4
7.5°	1714.8	1711.8	1707.8	1698.9	1694.0	1685.1	1678.1	1670.2	1665.2	1659.3	1652.4
10°	1733.6	1727.7	1719.7	1708.8	1695.0	1687.0	1677.1	1665.2	1659.3	1656.3	1649.4
12.5°	1742.5	1726.7	1713.8	1694.0	1674.2	1659.3	1648.4	1636.5	1633.5	1629.6	1624.6
15°	1721.7	1698.9	1666.2	1639.5	1613.7	1592.9	1584.0	1571.1	1568.2	1567.2	1566.2
17.5°	1651.4	1616.7	1585.0	1549.3	1526.6	1507.7	1499.8	1496.8	1491.9	1489.9	1490.9
20°	1538.4	1508.7	1477.0	1465.1	1438.4	1433.4	1421.6	1413.6	1404.7	1401.7	1396.8
22.5°	1406.7	1370.0	1350.2	1341.3	1330.4	1304.7	1298.7	1290.8	1278.9	1270.0	1268.0
25°	1253.1	1223.4	1222.4	1201.6	1192.7	1178.8	1163.0	1153.1	1146.2	1135.3	1127.3
27.5°	1096.6	1085.7	1066.9	1051.1	1045.1	1037.2	1013.4	1008.5	1000.5	991.6	982.7
30°	951.0	943.1	925.2	910.4	901.5	885.6	862.8	864.8	849.0	837.1	829.2
32.5°	809.3	803.4	786.6	782.6	753.9	745.9	722.2	704.3	688.5	676.6	666.7
35°	681.6	665.7	666.7	648.9	633.0	609.2	584.5	561.7	548.8	542.9	533.9
37.5°	589.4	574.6	559.7	539.9	522.1	505.2	490.4	483.4	475.5	477.5	478.5
40°	506.2	495.3	484.4	470.5	459.7	452.7	448.8	448.8	449.7	454.7	458.7
42.5°	446.8	437.9	431.9	427.0	428.9	428.9	431.9	436.9	441.8	448.8	452.7
45°	407.1	402.2	400.2	402.2	408.1	413.1	420.0	428.0	435.9	442.8	445.8
47.5°	383.4	380.4	380.4	385.4	394.3	402.2	413.1	421.0	429.9	435.9	437.9
50°	357.6	356.6	356.6	360.6	368.5	378.4	389.3	397.2	405.2	410.1	412.1
52.5°	342.8	339.8	338.8	343.7	350.7	360.6	371.5	379.4	385.4	389.3	390.3
55°	329.9	326.9	324.9	330.9	338.8	347.7	360.6	369.5	375.4	380.4	384.4
57.5°	319.0	316.0	314.0	321.0	328.9	339.8	350.7	360.6	368.5	374.5	378.4
60°	310.1	306.1	304.1	312.0	320.0	330.9	341.8	352.7	363.6	370.5	372.5
62.5°	299.2	296.2	293.2	298.2	302.1	310.1	320.0	330.9	340.8	347.7	347.7
63°	296.2	295.2	291.2	295.2	299.2	306.1	316.0	325.9	335.8	343.7	342.8
65°	283.3	283.3	281.3	285.3	289.3	296.2	304.1	315.0	323.9	329.9	330.9
67.5°	262.5	263.5	265.5	269.5	277.4	284.3	293.2	303.1	311.1	315.0	317.0
70°	238.7	240.7	244.7	250.6	257.6	263.5	269.5	279.4	286.3	290.3	292.2
72.5°	216.0	220.9	223.9	228.8	232.8	238.7	243.7	253.6	259.5	262.5	267.5
75°	195.2	199.1	201.1	204.1	208.0	210.0	216.0	219.9	227.8	231.8	237.8
77.5°	175.3	177.3	180.3	185.2	186.2	189.2	191.2	197.1	201.1	205.1	210.0
80°	157.5	159.5	163.5	166.4	167.4	169.4	170.4	169.4	168.4	165.4	169.4
82.5°	141.7	143.6	148.6	151.6	154.5	154.5	153.5	142.7	137.7	139.7	142.7
85°	116.9	118.9	123.8	129.8	130.8	129.8	130.8	119.9	112.9	110.0	112.9
87.5°	73.3	71.3	88.2	96.1	90.1	92.1	93.1	87.2	81.2	69.3	72.3
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: P145775
 CATALOG NUMBER: LDRL-SLL-F06-E

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	0°
2.5°	1654.4	1647.4	1648.4	1650.4	1650.4	1653.4	1649.4	1644.4	1647.4	1642.5	1641.5	2.5°
5°	1653.4	1644.4	1644.4	1646.4	1644.4	1646.4	1643.5	1638.5	1641.5	1635.5	1634.5	5°
7.5°	1649.4	1644.4	1646.4	1648.4	1645.4	1646.4	1645.4	1638.5	1639.5	1636.5	1629.6	7.5°
10°	1647.4	1644.4	1648.4	1654.4	1654.4	1655.3	1652.4	1644.4	1639.5	1636.5	1630.6	10°
12.5°	1626.6	1630.6	1638.5	1652.4	1657.3	1665.2	1669.2	1665.2	1667.2	1663.3	1661.3	12.5°
15°	1567.2	1577.1	1590.0	1610.8	1625.6	1643.5	1665.2	1675.2	1694.0	1708.8	1718.7	15°
17.5°	1495.9	1502.8	1516.7	1540.4	1559.3	1594.9	1624.6	1658.3	1695.0	1734.6	1769.3	17.5°
20°	1407.7	1402.7	1424.5	1450.3	1483.0	1522.6	1566.2	1616.7	1677.1	1740.5	1801.0	20°
22.5°	1277.9	1277.9	1300.7	1331.4	1371.0	1416.6	1477.0	1531.5	1610.8	1702.9	1792.0	22.5°
25°	1129.3	1132.3	1148.1	1182.8	1210.5	1275.9	1332.4	1402.7	1497.8	1598.9	1717.8	25°
27.5°	970.8	990.6	986.7	1023.3	1060.0	1124.4	1201.6	1273.0	1379.0	1486.9	1622.7	27.5°
30°	827.2	824.2	823.2	866.8	903.5	961.9	1025.3	1115.4	1222.4	1361.1	1517.6	30°
32.5°	648.9	659.8	667.7	693.4	733.1	787.6	855.9	950.0	1078.8	1218.5	1394.8	32.5°
35°	535.9	538.9	549.8	564.7	599.3	644.9	716.2	799.4	912.4	1057.0	1244.2	35°
37.5°	480.5	483.4	495.3	509.2	533.9	567.6	616.2	680.6	784.6	919.3	1093.7	37.5°
40°	462.6	465.6	472.5	485.4	508.2	536.9	575.6	625.1	700.4	805.4	957.9	40°
42.5°	454.7	454.7	455.7	465.6	488.4	522.1	563.7	608.2	663.7	743.0	866.8	42.5°
45°	445.8	445.8	444.8	451.7	469.6	508.2	558.7	613.2	673.6	742.0	839.1	45°
47.5°	437.9	435.9	433.9	436.9	451.7	491.4	549.8	616.2	693.4	778.6	876.7	47.5°
50°	410.1	410.1	409.1	410.1	424.0	465.6	533.0	613.2	711.3	821.2	940.1	50°
52.5°	390.3	391.3	392.3	392.3	403.2	445.8	520.1	614.2	731.1	862.8	1013.4	52.5°
55°	385.4	387.3	387.3	385.4	394.3	432.9	508.2	611.2	745.0	909.4	1091.7	55°
57.5°	379.4	380.4	381.4	379.4	385.4	419.0	491.4	597.3	741.0	927.2	1150.1	57.5°
60°	371.5	367.5	366.5	363.6	367.5	394.3	461.6	567.6	717.2	919.3	1169.9	60°
62.5°	349.7	346.7	343.7	340.8	343.7	363.6	428.9	531.0	677.6	887.6	1154.1	62.5°
63°	344.7	342.8	339.8	336.8	336.8	358.6	418.0	522.1	667.7	878.7	1148.1	63°
65°	330.9	329.9	327.9	324.9	323.9	340.8	393.3	481.4	621.1	839.1	1110.5	65°
67.5°	315.0	315.0	314.0	310.1	305.1	315.0	351.7	421.0	539.9	737.0	1017.4	67.5°
70°	292.2	292.2	291.2	289.3	283.3	290.3	314.0	359.6	444.8	602.3	852.9	70°
72.5°	269.5	269.5	272.4	271.4	272.4	273.4	285.3	310.1	361.6	468.6	644.9	72.5°
75°	239.7	244.7	245.7	247.7	248.6	247.7	253.6	268.5	298.2	359.6	470.5	75°
77.5°	215.0	221.9	220.9	218.9	217.9	218.9	217.9	224.9	246.7	285.3	348.7	77.5°
80°	177.3	184.3	184.3	183.3	181.3	183.3	181.3	188.2	206.1	239.7	277.4	80°
82.5°	145.6	150.6	153.5	155.5	153.5	161.5	161.5	159.5	173.4	203.1	233.8	82.5°
85°	116.9	121.8	124.8	128.8	130.8	128.8	127.8	125.8	133.7	157.5	178.3	85°
87.5°	74.3	78.3	78.3	79.3	79.3	82.2	76.3	69.3	63.4	90.1	94.1	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°



NUMBER: P145775

NUMBER: LDRL-SLL-F06-E

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
1638.5	1638.5	1639.5	1636.5	1639.5	1639.5	1636.5
1631.6	1629.6	1629.6	1628.6	1630.6	1629.6	1628.6
1625.6	1625.6	1621.7	1618.7	1617.7	1621.7	1619.7
1623.6	1621.7	1620.7	1618.7	1619.7	1622.7	1624.6
1659.3	1652.4	1654.4	1653.4	1654.4	1657.3	1663.3
1724.7	1724.7	1729.6	1718.7	1723.7	1728.6	1736.6
1798.0	1815.8	1824.7	1823.7	1825.7	1829.7	1838.6
1860.4	1916.9	1956.5	1966.4	1993.1	1999.1	1985.2
1888.1	1989.2	2078.3	2137.8	2204.2	2230.9	2238.8
1831.7	1977.3	2123.9	2260.6	2391.4	2466.7	2533.0
1773.2	1945.6	2140.8	2344.8	2557.8	2750.0	2893.6
1692.0	1919.8	2183.3	2458.7	2741.1	3008.5	3248.3
1602.8	1878.2	2187.3	2522.1	2870.8	3203.7	3494.0
1475.0	1781.2	2123.9	2512.2	2916.4	3333.5	3696.0
1328.4	1626.6	2011.0	2454.8	2913.4	3399.8	3834.7
1171.9	1477.0	1881.2	2356.7	2874.8	3420.6	3931.8
1054.0	1356.2	1752.4	2263.6	2817.4	3406.8	3978.4
993.6	1252.2	1647.4	2172.5	2753.0	3373.1	3998.2
1005.5	1224.4	1585.0	2097.2	2695.5	3336.4	3993.2
1071.9	1266.0	1584.0	2069.4	2658.9	3302.8	3979.4
1171.9	1360.1	1641.5	2102.1	2678.7	3299.8	3978.4
1284.8	1491.9	1780.2	2190.3	2762.9	3353.3	4002.1
1393.8	1652.4	1958.5	2387.4	2922.4	3487.0	4098.2
1458.2	1799.0	2187.3	2665.8	3168.0	3721.8	4309.2
1473.1	1887.1	2390.4	2939.2	3504.8	4061.6	4638.1
1472.1	1896.1	2425.1	2995.7	3573.2	4139.8	4722.3
1449.3	1913.9	2518.2	3181.9	3847.6	4475.7	5074.0
1378.0	1882.2	2569.7	3355.3	4120.0	4846.2	5603.0
1214.5	1737.6	2509.3	3411.7	4282.5	5091.8	5955.7
951.0	1433.4	2166.5	3118.5	4062.6	4871.9	5964.6
668.7	1013.4	1667.2	2560.8	3320.6	4117.1	5327.6
465.6	656.8	1082.8	1722.7	2396.3	3003.6	3960.5
340.8	436.9	648.9	1030.3	1454.2	1877.2	2457.8
262.5	315.0	415.1	622.1	821.2	1051.1	1482.0
184.3	208.0	256.6	384.4	550.8	751.9	1085.7
80.2	94.1	123.8	226.9	372.5	358.6	341.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

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