

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: P144864

Luminaire Tested: **LDRL-SL2-F05-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144864  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)  
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-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (35) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11038.4 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

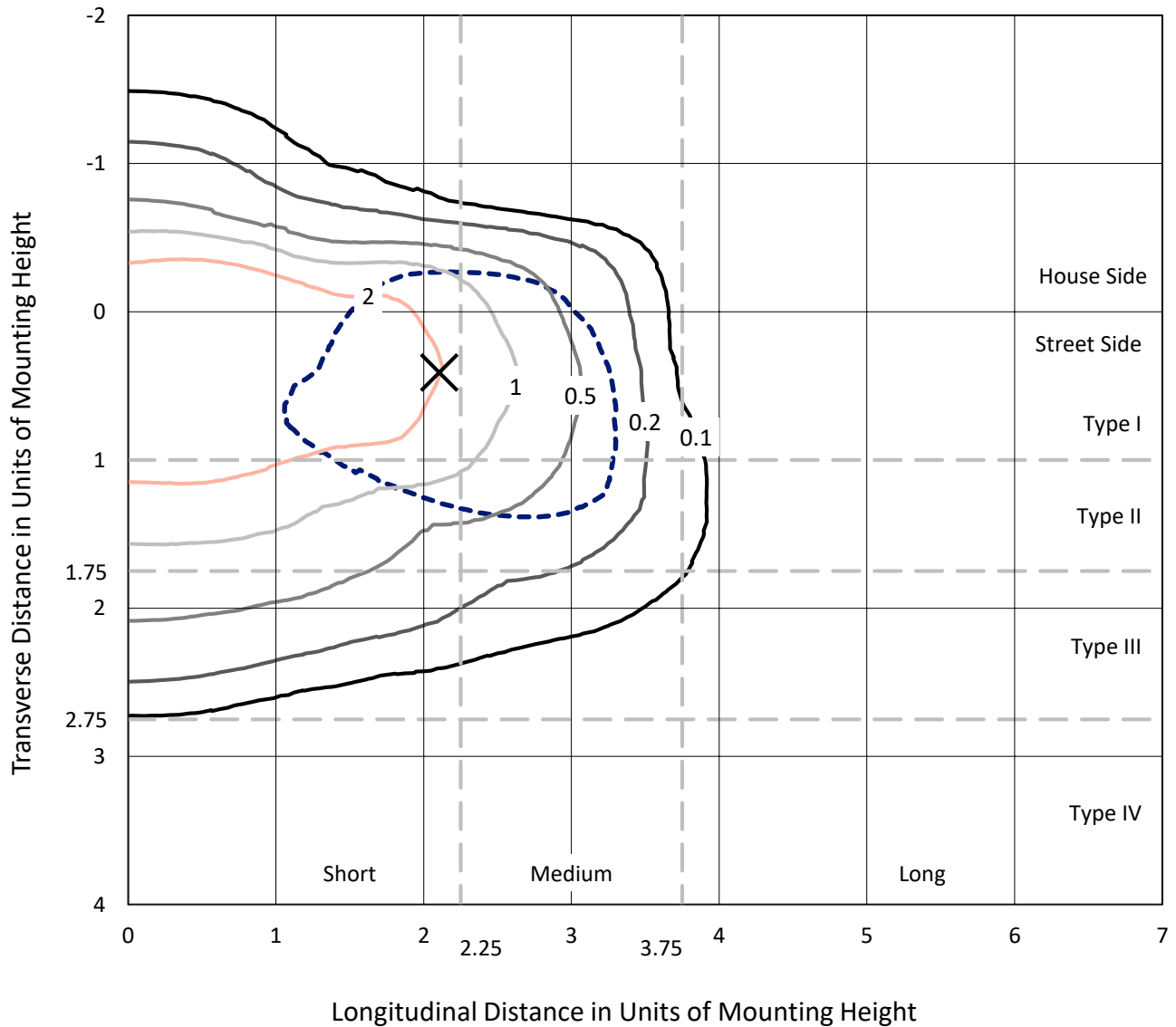
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

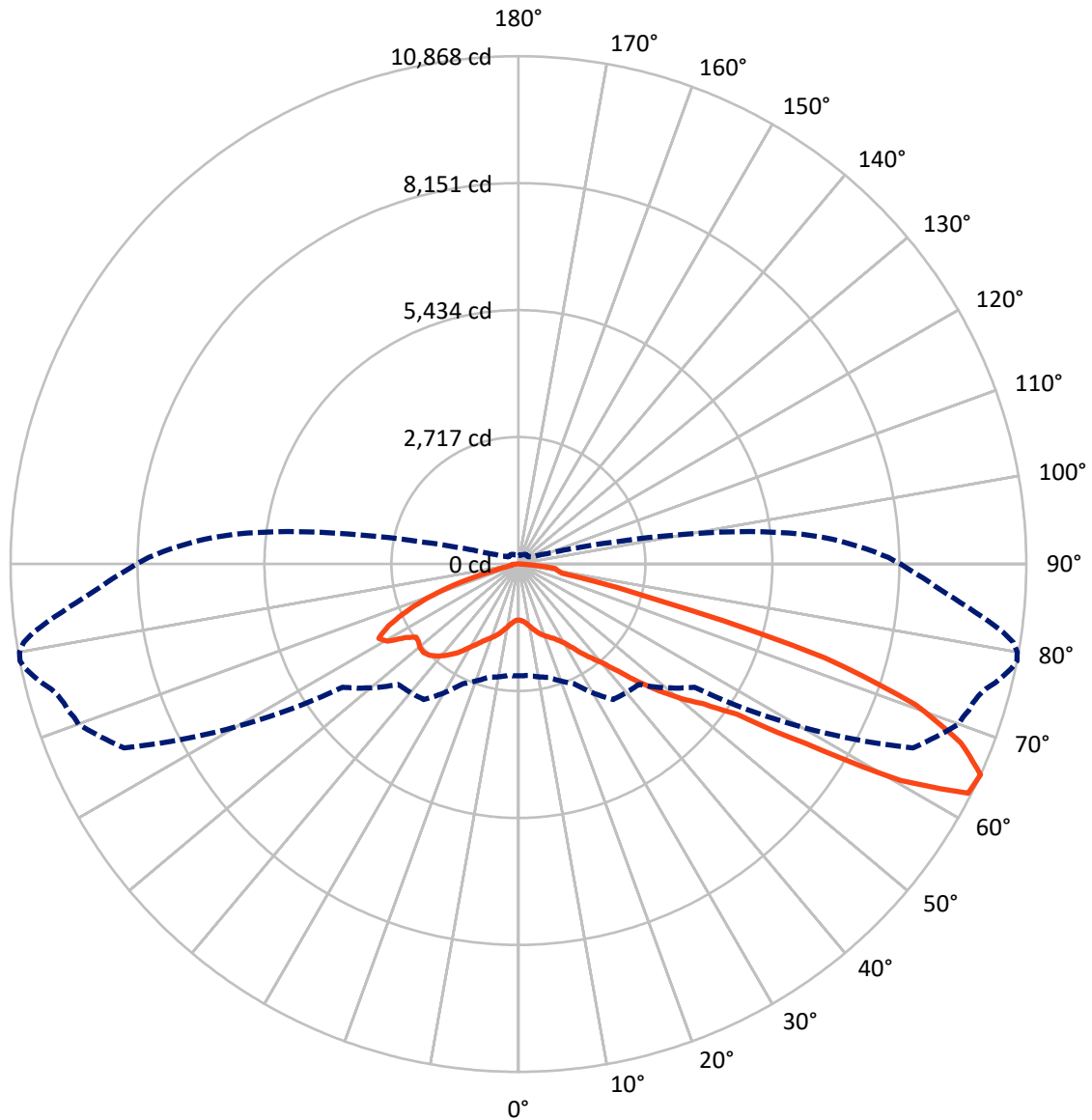
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2505.6	0.0	2505.6
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	8532.8	0.0	8532.8
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	11038.4	0.0	11038.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	1.1
10°-20°	387.6	3.5
20°-30°	668.2	6.1
30°-40°	1089.7	9.9
40°-50°	1819.2	16.5
50°-60°	2459.9	22.3
60°-70°	3055.9	27.7
70°-80°	1223.7	11.1
80°-90°	215.0	1.9
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°	11038.4	100.0
0°-180°	11038.4	100.0



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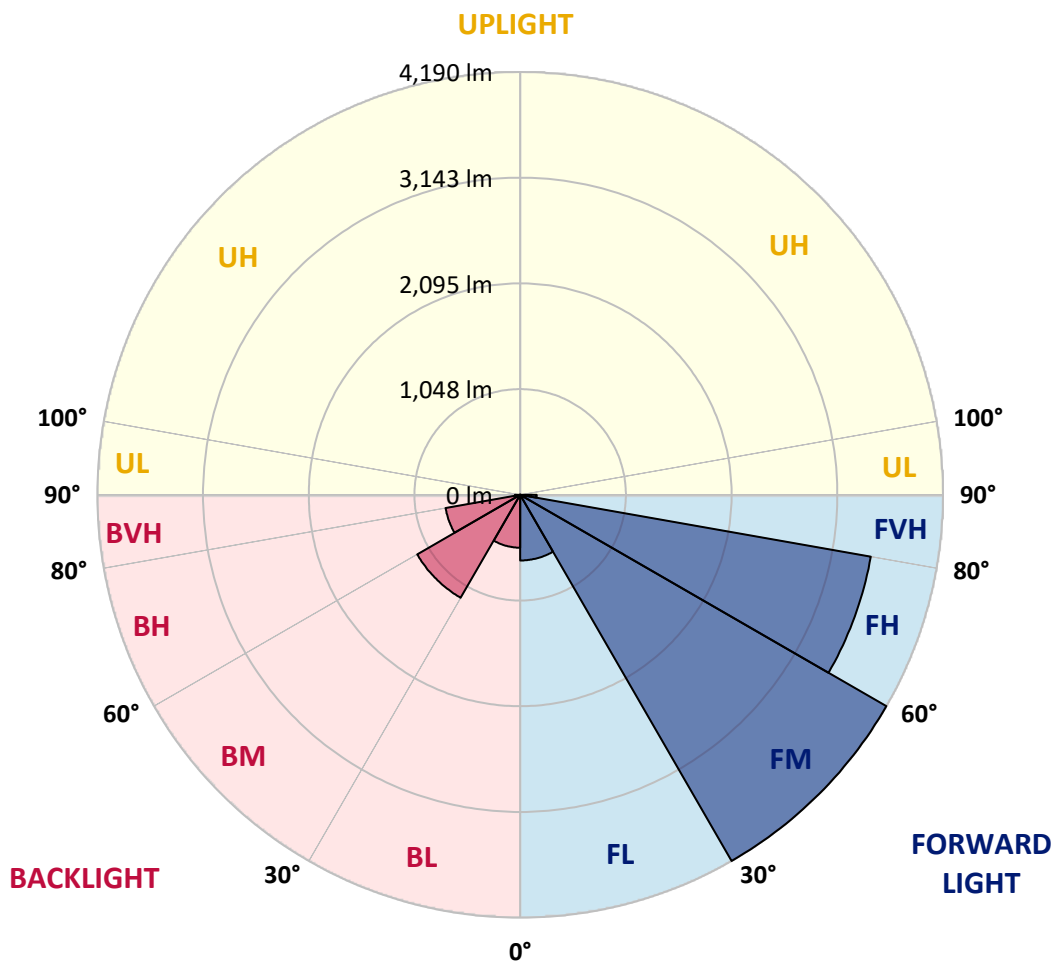
CATALOG NUMBER: LDRL-SL2-F05-E-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.9	5.9			
FM (30°-60°)	4190.3	38.0			
FH (60°-80°)	3528.5	32.0			G2/5000
FVH (80°-90°)	163.1	1.5			G2/225
BL (0°-30°)	524.1	4.7	B2/1000		
BM (30°-60°)	1178.5	10.7	B2/2500		
BH (60°-80°)	751.1	6.8	B2/1000		G2/1000
BVH (80°-90°)	51.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1208.7	1207.9	1211.7	1214.7	1214.7	1216.2	1215.4	1210.9	1211.7	1213.2	1211.7
5°	1222.2	1219.2	1223.0	1227.5	1230.5	1234.3	1238.1	1238.8	1241.8	1241.8	1241.1
7.5°	1251.6	1249.4	1254.6	1256.2	1262.9	1269.0	1276.5	1281.8	1284.8	1286.3	1288.6
10°	1302.1	1300.6	1302.1	1305.2	1308.2	1315.0	1327.8	1339.1	1345.9	1345.9	1348.9
12.5°	1363.2	1357.2	1358.7	1352.7	1354.2	1368.5	1383.6	1402.4	1413.7	1415.2	1416.8
15°	1410.7	1407.7	1405.4	1397.1	1403.2	1422.0	1445.4	1472.5	1482.4	1490.6	1489.9
17.5°	1455.2	1451.4	1446.2	1434.8	1440.9	1471.0	1506.5	1536.6	1553.2	1554.7	1556.2
20°	1508.0	1503.5	1493.7	1470.3	1468.8	1511.0	1558.5	1590.9	1606.0	1612.8	1615.1
22.5°	1575.1	1569.1	1551.0	1505.7	1493.7	1543.4	1600.0	1639.9	1655.8	1662.6	1666.3
25°	1661.0	1649.0	1620.3	1549.5	1524.6	1576.6	1644.5	1692.7	1714.6	1721.4	1725.9
27.5°	1738.7	1729.7	1695.0	1611.3	1568.3	1621.1	1698.7	1760.6	1790.7	1799.0	1805.8
30°	1829.2	1816.4	1788.5	1699.5	1642.2	1688.9	1787.7	1866.1	1903.1	1903.8	1918.9
32.5°	2041.8	2033.5	2007.9	1909.9	1813.4	1816.4	1908.4	2016.2	2053.1	2059.2	2072.7
35°	2357.0	2354.0	2353.2	2298.9	2227.3	2153.4	2160.2	2242.4	2267.3	2277.1	2281.6
37.5°	2564.3	2590.7	2654.8	2694.0	2675.9	2691.8	2608.8	2508.5	2494.2	2483.7	2488.2
40°	2743.0	2766.4	2896.1	3077.0	3187.1	3264.8	3191.7	2884.0	2769.4	2736.2	2723.4
42.5°	2848.6	2875.0	3060.5	3350.0	3630.5	3814.5	3834.1	3406.5	3115.5	3111.7	3063.5
45°	2905.9	2932.3	3154.0	3543.8	3940.4	4272.1	4444.0	4049.7	3622.2	3590.5	3523.4
47.5°	2894.6	2919.5	3150.2	3615.4	4123.6	4576.0	4919.8	4699.6	4206.5	4130.4	4037.6
50°	2756.6	2774.7	3016.7	3498.5	4074.6	4702.7	5245.5	5296.1	4867.8	4764.5	4625.7
52.5°	2614.1	2646.5	2847.1	3291.2	3852.2	4624.2	5440.1	5838.9	5485.3	5414.4	5236.5
55°	2537.2	2562.8	2726.4	3105.7	3617.7	4356.6	5520.7	6350.9	6235.5	6206.9	6081.0
57.5°	2534.2	2559.1	2689.5	2993.4	3426.9	4077.6	5544.1	7141.8	7480.4	7487.9	7451.7
60°	2657.8	2683.5	2792.8	3047.6	3368.1	3838.6	5460.4	8263.8	9011.7	9078.1	9188.9
62.5°	2675.2	2687.2	2819.2	3163.0	3582.2	3659.9	5115.8	9198.0	10064.3	10125.4	10186.5
65°	2393.2	2392.4	2509.3	2826.0	3537.7	3641.8	4597.9	9312.6	10022.1	10059.0	10135.2
67.5°	1784.7	1769.6	1836.0	2125.5	2807.1	3646.3	3984.1	8447.7	9240.9	9311.1	9336.7
70°	919.9	943.2	988.5	1165.7	1782.4	2935.3	3422.4	7127.5	8112.2	8138.6	8229.8
72.5°	377.8	367.9	398.9	490.1	892.0	1940.0	2831.2	5624.8	6700.0	6681.9	6698.5
75°	210.4	213.4	222.4	255.6	433.5	974.2	2432.4	3981.8	4556.4	4244.2	4150.0
77.5°	168.9	170.4	171.2	177.2	236.8	519.5	1866.9	2622.4	2291.4	2127.8	2065.2
80°	123.7	131.9	141.0	142.5	162.9	294.8	1023.9	2207.7	1934.0	1798.3	1686.7
82.5°	99.5	103.3	122.9	125.9	129.7	175.7	463.7	2073.5	1926.5	1787.7	1633.9
85°	59.6	66.4	100.3	101.0	102.5	107.1	256.4	844.5	1050.3	928.2	849.8
87.5°	21.1	27.1	49.8	41.5	52.8	43.7	112.3	282.7	348.3	331.0	293.3
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):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1210.9	1210.9	1212.4	1211.7	1211.7	1211.7	1211.7	1210.2	1210.2	1207.9	1209.4
5°	1241.1	1240.3	1241.1	1241.8	1241.1	1242.6	1241.8	1241.1	1241.8	1241.1	1241.8
7.5°	1289.3	1285.6	1290.8	1287.8	1287.1	1291.6	1289.3	1291.6	1292.3	1291.6	1290.8
10°	1350.4	1352.7	1352.7	1352.7	1351.2	1355.7	1356.4	1357.9	1358.7	1361.7	1361.7
12.5°	1420.5	1421.3	1424.3	1423.5	1425.0	1430.3	1434.1	1434.8	1435.6	1437.9	1434.8
15°	1495.9	1497.4	1497.4	1504.2	1502.0	1509.5	1511.8	1511.8	1512.5	1521.6	1522.3
17.5°	1563.0	1563.0	1569.1	1569.1	1575.1	1576.6	1583.4	1584.1	1587.2	1595.5	1596.2
20°	1619.6	1622.6	1626.4	1630.9	1633.1	1637.7	1642.2	1646.7	1650.5	1657.3	1658.0
22.5°	1673.1	1676.1	1682.2	1685.2	1690.5	1693.5	1697.2	1702.5	1708.5	1717.6	1719.9
25°	1734.9	1738.0	1744.7	1749.3	1755.3	1759.8	1766.6	1773.4	1777.2	1786.2	1793.0
27.5°	1813.4	1822.4	1831.5	1833.7	1838.2	1848.8	1857.8	1866.9	1875.2	1879.7	1888.0
30°	1928.0	1928.0	1946.8	1946.8	1955.1	1964.9	1970.9	1980.7	1995.8	2000.3	2010.9
32.5°	2081.8	2085.5	2092.3	2112.7	2127.8	2132.3	2136.8	2151.1	2160.2	2171.5	2184.3
35°	2301.2	2305.0	2308.7	2328.3	2345.7	2350.2	2354.7	2363.8	2378.8	2398.5	2392.4
37.5°	2498.0	2500.2	2512.3	2534.2	2544.0	2556.0	2559.8	2576.4	2584.7	2602.8	2603.5
40°	2734.7	2729.5	2736.2	2761.1	2776.2	2775.4	2787.5	2817.7	2823.7	2832.0	2853.1
42.5°	3065.0	3045.4	3066.5	3074.8	3097.4	3111.7	3135.9	3156.2	3170.5	3202.2	3217.3
45°	3491.7	3471.4	3488.7	3492.5	3539.2	3553.6	3589.8	3616.9	3647.8	3684.0	3694.6
47.5°	3978.1	3940.4	3919.3	3942.6	3998.4	4021.8	4057.2	4082.9	4115.3	4134.1	4128.1
50°	4541.3	4450.8	4408.6	4396.5	4436.5	4469.7	4524.7	4536.8	4551.9	4551.1	4551.9
52.5°	5169.4	5075.1	4986.9	4925.8	4919.8	4964.3	4977.9	4980.9	4976.4	4942.4	4921.3
55°	5989.7	5982.9	5890.2	5763.5	5755.2	5750.0	5670.8	5661.0	5642.9	5590.9	5519.2
57.5°	7478.1	7553.5	7492.4	7489.4	7423.1	7379.3	7233.8	7161.4	7085.3	6944.3	6831.9
60°	9198.7	9308.0	9368.4	9394.8	9524.4	9524.4	9405.3	9302.8	9179.1	8964.2	8754.6
62.5°	10234.7	10330.5	10419.4	10558.9	10724.0	10797.2	10803.2	10712.0	10555.9	10310.9	10014.5
65°	10169.1	10240.0	10347.8	10512.2	10648.6	10779.8	10868.1	10840.2	10721.0	10476.0	10153.3
67.5°	9426.4	9529.7	9669.2	9820.8	9947.4	10071.1	10213.6	10224.2	10192.5	9959.5	9667.7
70°	8280.4	8413.1	8501.3	8692.0	8749.3	8874.5	9017.8	9086.4	9035.1	8855.7	8684.5
72.5°	6727.1	6831.9	6847.0	6764.1	6792.7	6823.6	6858.3	6697.7	6635.9	6396.1	6286.0
75°	4079.1	3941.1	3825.0	3709.6	3365.1	3242.9	3055.2	2685.0	2642.7	2388.7	2212.2
77.5°	1940.0	1882.0	1777.2	1601.5	1367.7	1143.8	949.3	771.3	705.0	580.6	494.6
80°	1624.1	1554.7	1460.5	1330.0	1166.4	1003.6	849.8	717.8	585.1	476.5	380.8
82.5°	1489.9	1369.3	1236.5	1124.2	1008.8	898.0	794.7	675.6	605.5	488.6	398.9
85°	753.2	659.7	534.6	450.1	380.0	309.1	267.7	228.5	203.6	162.1	141.0
87.5°	252.6	206.6	153.8	130.4	117.6	101.0	92.7	88.2	86.0	76.2	67.9
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):**

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1209.4	1209.4	1209.4	1209.4	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1209.4
5°	1240.3	1240.3	1241.1	1243.3	1238.8	1240.3	1241.8	1239.6	1241.8	1239.6	1242.6
7.5°	1290.1	1292.3	1290.8	1293.9	1292.3	1296.9	1293.9	1291.6	1293.1	1293.1	1293.9
10°	1360.2	1363.2	1361.0	1362.5	1362.5	1365.5	1361.7	1362.5	1363.2	1361.7	1362.5
12.5°	1437.9	1439.4	1438.6	1443.1	1440.9	1443.1	1440.9	1443.9	1445.4	1446.9	1446.9
15°	1522.3	1523.8	1528.3	1527.6	1532.1	1530.6	1531.4	1527.6	1535.1	1530.6	1532.1
17.5°	1600.0	1599.2	1605.3	1607.5	1608.3	1609.0	1611.3	1608.3	1609.0	1611.3	1609.8
20°	1660.3	1665.6	1667.1	1673.1	1677.6	1679.1	1678.4	1680.7	1683.7	1680.7	1680.7
22.5°	1724.4	1731.9	1734.2	1738.0	1742.5	1743.2	1747.8	1750.0	1751.5	1750.8	1751.5
25°	1801.3	1806.6	1811.8	1819.4	1824.7	1825.4	1829.2	1832.2	1833.0	1832.2	1836.7
27.5°	1895.5	1902.3	1909.1	1918.2	1924.2	1925.7	1934.0	1934.0	1938.5	1940.8	1942.3
30°	2016.9	2019.2	2036.5	2045.6	2043.3	2053.9	2065.2	2064.4	2069.7	2071.2	2075.0
32.5°	2193.4	2193.4	2208.4	2219.8	2231.8	2228.1	2245.4	2242.4	2250.7	2255.2	2252.9
35°	2407.5	2415.0	2426.4	2433.1	2446.0	2452.7	2464.8	2471.6	2475.4	2474.6	2466.3
37.5°	2628.4	2640.5	2645.0	2661.6	2674.4	2685.7	2687.2	2679.7	2682.7	2667.6	2663.1
40°	2881.0	2898.4	2908.9	2933.8	2932.3	2946.6	2948.1	2926.2	2922.5	2902.9	2882.5
42.5°	3233.9	3258.0	3266.3	3285.1	3270.1	3276.9	3239.2	3230.1	3199.9	3168.3	3122.3
45°	3709.6	3697.6	3702.9	3697.6	3657.6	3628.2	3597.3	3552.8	3508.3	3447.3	3381.7
47.5°	4128.1	4134.1	4094.9	4070.1	4005.2	3963.7	3907.2	3829.5	3775.2	3693.1	3606.4
50°	4534.5	4467.4	4412.4	4355.1	4297.8	4221.6	4136.4	4067.8	3988.6	3886.1	3779.8
52.5°	4864.8	4778.1	4711.7	4630.3	4552.6	4468.2	4379.2	4279.7	4175.6	4073.1	3941.9
55°	5449.9	5323.9	5238.7	5096.2	5008.0	4889.6	4820.3	4691.3	4546.6	4410.9	4271.4
57.5°	6705.3	6516.8	6419.5	6338.8	6201.6	6007.1	5883.4	5671.5	5464.9	5320.2	5087.9
60°	8596.3	8404.8	8243.4	8052.7	7842.3	7578.4	7460.8	7211.2	6915.6	6676.6	6369.7
62.5°	9774.8	9510.1	9248.5	8980.8	8769.7	8563.1	8319.6	8067.7	7775.2	7450.2	7114.7
65°	9822.3	9504.8	9191.9	8919.0	8671.7	8403.3	8174.8	7919.2	7611.6	7276.8	6928.4
67.5°	9329.2	8974.0	8638.5	8339.2	8056.4	7807.6	7568.6	7328.1	6998.6	6718.1	6361.4
70°	8346.7	8022.5	7718.6	7377.8	7161.4	6881.7	6648.7	6395.4	6159.4	5897.0	5563.0
72.5°	6130.7	5886.4	5539.6	5394.8	5278.7	4982.4	4809.0	4787.9	4637.1	4322.6	4073.1
75°	2280.1	1940.8	1838.2	1899.3	1797.5	1831.5	1818.6	1746.2	1749.3	1695.7	1632.4
77.5°	446.4	414.7	389.8	396.6	368.7	356.6	382.3	374.7	361.2	364.9	358.9
80°	303.9	257.1	233.0	223.9	212.6	207.3	205.8	203.6	199.1	196.8	190.0
82.5°	299.3	222.4	175.7	150.8	141.8	137.2	133.5	132.7	131.2	130.4	132.7
85°	119.1	96.5	88.2	80.7	78.4	76.2	76.2	75.4	74.6	76.2	79.2
87.5°	58.1	49.0	44.5	40.7	39.2	38.5	38.5	39.2	40.0	43.0	49.0
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):**

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1207.9	1208.7	1207.1	1207.9	1207.1	1205.6	1204.9	1207.1	1206.4	1205.6	1205.6
5°	1238.8	1241.8	1240.3	1238.8	1238.8	1238.1	1238.1	1238.1	1237.3	1238.1	1235.8
7.5°	1292.3	1291.6	1291.6	1290.1	1288.6	1290.1	1289.3	1287.1	1287.8	1286.3	1284.1
10°	1361.0	1358.7	1362.5	1362.5	1359.5	1358.7	1357.2	1354.9	1354.9	1352.7	1352.7
12.5°	1442.4	1440.1	1445.4	1441.6	1437.1	1436.4	1431.8	1430.3	1432.6	1431.8	1430.3
15°	1525.3	1526.1	1528.3	1527.6	1522.3	1522.3	1516.3	1517.0	1512.5	1511.0	1507.2
17.5°	1606.0	1606.8	1604.5	1604.5	1600.7	1598.5	1591.7	1592.4	1589.4	1583.4	1578.9
20°	1678.4	1677.6	1672.4	1676.9	1669.3	1667.8	1661.8	1655.8	1657.3	1651.2	1642.2
22.5°	1749.3	1747.8	1746.2	1744.0	1740.2	1738.7	1731.9	1731.2	1723.6	1714.6	1707.0
25°	1831.5	1830.7	1828.4	1829.2	1821.6	1822.4	1810.3	1807.3	1802.8	1793.0	1787.0
27.5°	1937.8	1937.8	1931.7	1929.5	1927.2	1924.2	1913.6	1906.1	1894.8	1883.5	1871.4
30°	2068.2	2066.7	2065.2	2059.2	2050.9	2046.3	2027.5	2015.4	2000.3	1979.2	1961.1
32.5°	2254.4	2241.6	2231.1	2217.5	2203.9	2189.6	2160.2	2139.8	2115.7	2081.8	2053.1
35°	2461.8	2439.9	2428.6	2400.7	2375.1	2346.4	2311.0	2269.5	2236.3	2191.9	2145.1
37.5°	2632.9	2616.4	2586.2	2554.5	2518.3	2464.1	2424.1	2379.6	2321.5	2272.5	2216.0
40°	2844.1	2806.4	2763.4	2710.6	2660.8	2599.8	2544.7	2480.6	2409.8	2338.9	2265.0
42.5°	3065.7	3007.7	2936.8	2875.7	2800.3	2720.4	2648.8	2562.1	2471.6	2376.6	2277.8
45°	3291.9	3220.3	3126.1	3039.3	2934.5	2834.3	2731.7	2613.3	2489.7	2363.0	2238.6
47.5°	3499.3	3394.5	3287.4	3170.5	3049.9	2921.0	2775.4	2620.1	2457.3	2290.6	2135.3
50°	3662.1	3531.0	3396.0	3261.0	3113.2	2945.9	2762.6	2559.8	2359.2	2159.4	1980.7
52.5°	3806.2	3659.1	3493.3	3325.9	3143.4	2937.6	2708.3	2469.3	2225.0	2004.1	1803.6
55°	4085.1	3900.4	3681.8	3466.1	3235.4	2976.0	2690.2	2397.7	2116.5	1875.9	1662.6
57.5°	4842.9	4593.3	4254.8	3955.4	3662.9	3285.1	2882.5	2522.1	2164.0	1879.7	1642.2
60°	6036.5	5630.1	5242.5	4786.4	4312.8	3794.8	3255.0	2769.4	2332.9	1976.2	1690.5
62.5°	6728.6	6299.6	5801.2	5248.5	4634.8	4003.7	3383.9	2816.9	2338.1	1949.8	1633.1
65°	6541.6	6110.4	5562.2	4996.7	4343.8	3698.3	3083.1	2538.7	2074.2	1715.3	1412.2
67.5°	5986.7	5535.8	5020.8	4393.5	3769.2	3171.3	2610.3	2097.6	1686.7	1351.9	1084.2
70°	5179.2	4778.1	4281.9	3703.6	3098.2	2560.6	2087.8	1625.6	1278.0	971.1	760.0
72.5°	3843.9	3488.7	3178.8	2695.5	2252.2	1830.7	1445.4	1131.0	831.7	628.8	484.1
75°	1613.5	1493.7	1443.1	1266.0	1100.8	902.5	679.3	541.4	438.8	373.2	296.3
77.5°	391.3	391.3	367.9	344.6	316.7	286.5	253.3	226.2	212.6	200.6	190.8
80°	190.0	188.5	182.5	181.7	176.4	169.6	165.9	160.6	158.3	155.3	153.8
82.5°	133.5	132.7	130.4	133.5	132.7	135.7	137.2	138.0	138.0	138.7	139.5
85°	84.4	87.5	93.5	101.0	107.8	116.1	123.7	129.7	134.2	138.0	141.0
87.5°	53.5	61.1	65.6	76.9	88.2	101.0	115.4	121.4	126.7	127.4	122.9
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):**

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6
2.5°	1205.6	1204.9	1206.4	1204.9	1204.9	1204.1	1201.9	1199.6	1197.3	1196.6	1194.3
5°	1235.0	1235.0	1236.5	1233.5	1234.3	1231.3	1224.5	1216.9	1210.2	1204.1	1197.3
7.5°	1284.8	1282.5	1283.3	1282.5	1281.0	1275.0	1259.9	1241.1	1223.0	1204.1	1189.0
10°	1351.2	1346.6	1346.6	1345.1	1342.9	1334.6	1302.9	1265.2	1227.5	1193.6	1168.7
12.5°	1425.0	1425.8	1419.8	1416.0	1412.2	1394.9	1347.4	1287.1	1227.5	1173.2	1133.3
15°	1502.0	1501.2	1494.4	1492.2	1483.9	1458.2	1386.6	1298.4	1213.2	1133.3	1073.7
17.5°	1571.3	1568.3	1561.5	1557.0	1547.9	1514.0	1413.0	1293.1	1175.5	1070.7	996.0
20°	1634.7	1630.9	1624.9	1616.6	1607.5	1558.5	1422.8	1266.0	1115.9	996.0	920.6
22.5°	1700.3	1692.0	1685.2	1673.9	1664.1	1598.5	1416.0	1217.7	1048.1	913.1	832.4
25°	1773.4	1763.6	1749.3	1735.7	1720.6	1630.9	1397.1	1157.4	966.6	823.4	741.9
27.5°	1852.6	1838.2	1819.4	1802.0	1777.9	1655.0	1364.7	1090.3	877.6	734.4	649.9
30°	1936.3	1909.9	1886.5	1860.1	1829.2	1666.3	1318.0	1007.3	779.6	643.9	559.5
32.5°	2017.7	1982.2	1947.6	1909.1	1866.9	1661.8	1251.6	909.3	681.6	559.5	488.6
35°	2100.6	2049.4	2001.1	1949.1	1897.8	1639.2	1160.4	800.7	588.9	489.3	438.1
37.5°	2157.2	2093.1	2029.0	1966.4	1904.6	1590.2	1039.0	679.3	505.2	438.8	401.9
40°	2185.8	2107.4	2029.0	1951.3	1875.2	1508.7	897.3	568.5	445.6	401.1	374.7
42.5°	2177.5	2080.3	1983.0	1891.0	1797.5	1379.1	743.4	477.3	404.1	371.7	348.3
45°	2108.9	1992.8	1882.0	1784.7	1667.8	1212.4	610.7	420.7	372.5	347.6	325.7
47.5°	1980.0	1850.3	1714.6	1604.5	1495.2	1019.4	508.2	385.3	344.6	324.2	302.4
50°	1815.6	1665.6	1529.9	1410.7	1303.7	839.2	438.1	355.1	322.0	304.6	281.2
52.5°	1634.7	1473.3	1349.6	1224.5	1119.7	700.5	389.1	322.0	300.1	282.0	263.1
55°	1484.6	1335.3	1209.4	1083.5	977.9	613.0	348.3	296.3	279.7	260.9	245.8
57.5°	1444.7	1274.2	1137.0	1017.9	909.3	559.5	318.9	272.9	261.6	247.3	230.7
60°	1461.2	1273.5	1119.7	989.2	875.4	516.5	297.1	257.1	248.1	235.2	217.9
62.5°	1401.7	1203.4	1048.1	909.3	801.5	462.2	281.2	249.6	243.5	226.2	206.6
65°	1194.3	1012.6	863.3	743.4	650.7	389.1	268.4	256.4	250.3	220.2	199.1
67.5°	909.3	757.8	637.9	548.2	481.0	322.0	265.4	279.0	266.9	223.2	196.8
70°	628.8	514.2	437.3	383.0	340.8	271.4	275.2	303.9	286.5	233.0	209.6
72.5°	398.9	333.3	295.6	275.2	254.8	229.2	272.9	300.8	277.5	234.5	209.6
75°	255.6	228.5	215.6	208.1	202.1	199.8	240.5	247.3	223.2	203.6	195.3
77.5°	181.0	176.4	174.2	173.4	174.2	179.5	199.1	186.2	162.1	162.9	167.4
80°	153.1	153.1	151.6	152.3	153.8	156.1	159.1	137.2	124.4	134.2	149.3
82.5°	140.2	142.5	144.0	145.5	147.8	144.8	135.0	104.1	100.3	130.4	146.3
85°	142.5	142.5	143.3	144.8	145.5	130.4	112.3	78.4	76.9	146.3	138.0
87.5°	122.1	120.6	115.4	111.6	106.3	89.7	74.6	43.7	45.2	90.5	96.5
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):**

	175°	180°
0°	1199.6	1199.6
2.5°	1193.6	1193.6
5°	1193.6	1193.6
7.5°	1183.8	1180.8
10°	1155.1	1151.3
12.5°	1111.4	1107.6
15°	1044.3	1039.8
17.5°	960.6	953.0
20°	873.1	862.6
22.5°	785.7	777.4
25°	695.9	688.4
27.5°	607.7	600.2
30°	526.3	523.3
32.5°	466.0	463.0
35°	421.5	420.0
37.5°	391.3	389.8
40°	364.9	363.4
42.5°	340.8	338.5
45°	316.7	317.4
47.5°	292.5	291.8
50°	271.4	271.4
52.5°	254.1	253.3
55°	238.3	237.5
57.5°	222.4	221.7
60°	208.9	206.6
62.5°	196.0	194.5
65°	187.7	187.0
67.5°	181.7	179.5
70°	180.2	174.2
72.5°	175.7	168.1
75°	165.1	161.4
77.5°	145.5	141.0
80°	112.3	104.1
82.5°	94.2	81.4
85°	69.4	64.1
87.5°	50.5	40.0
90°	0.0	0.0

(END OF REPORT)