

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: P145161

Luminaire Tested: **LDRL-SL3-E05-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145161
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL3-E05-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15231 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

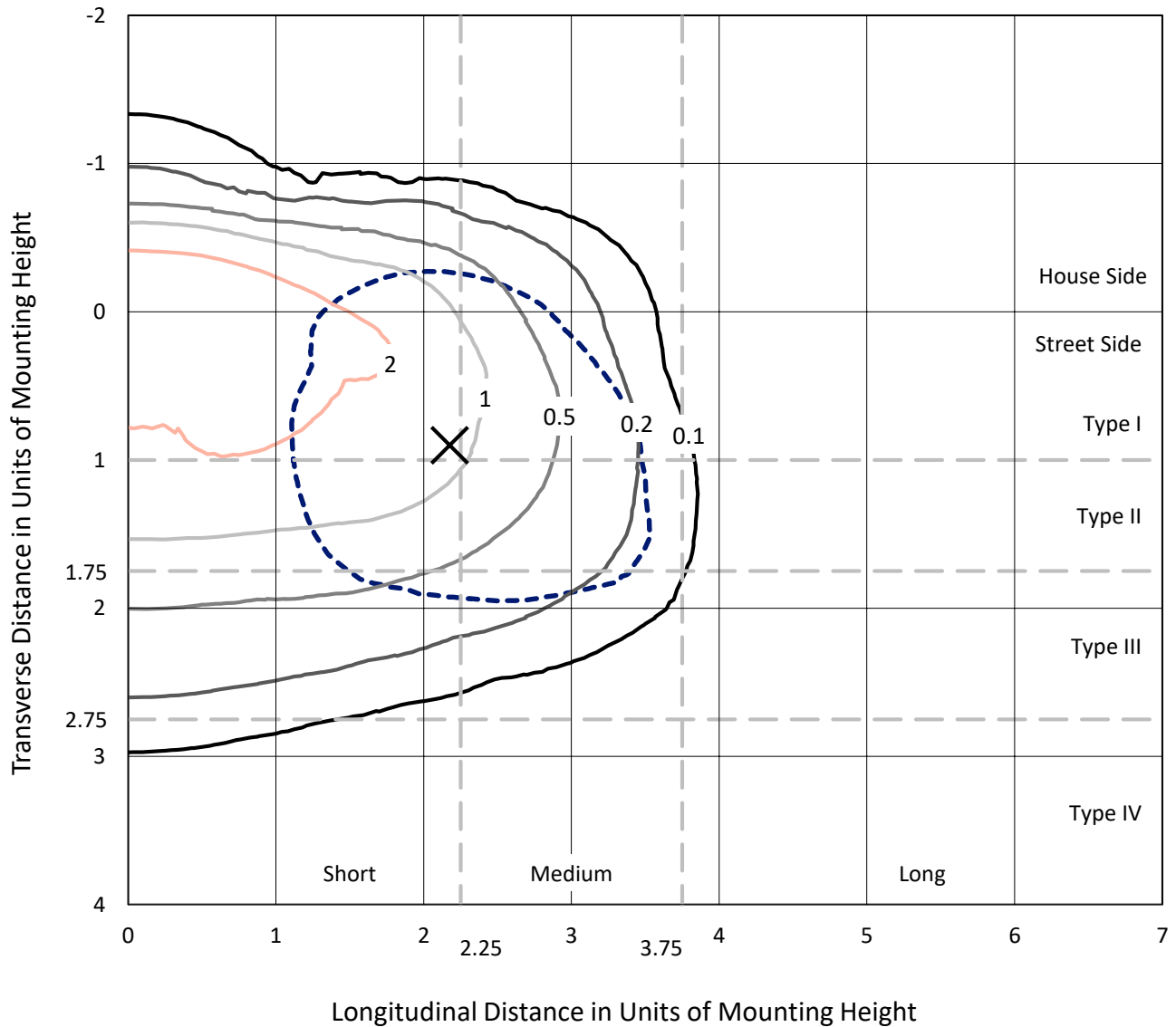
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

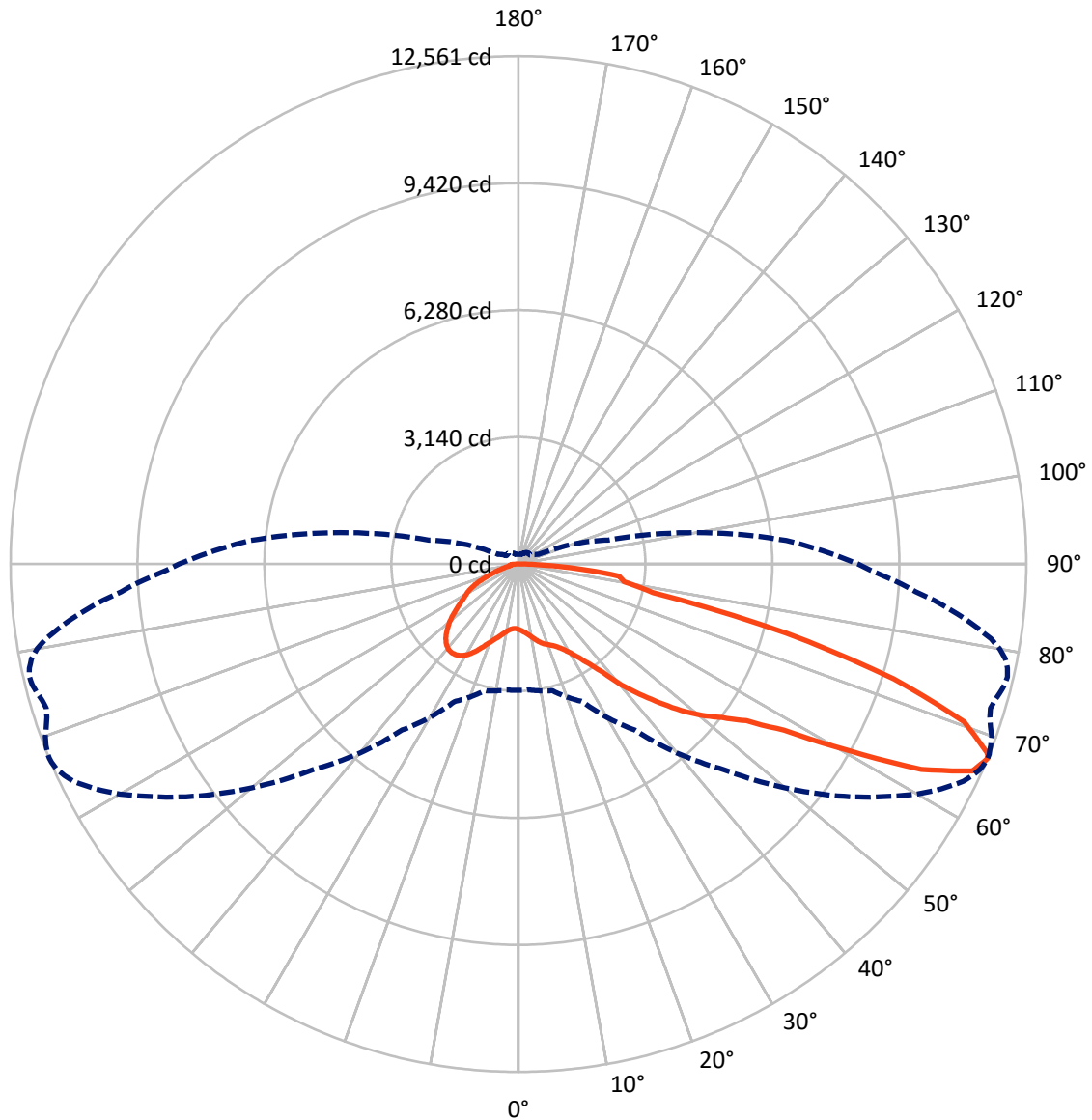
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3606.6	0.0	3606.6
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	11624.4	0.0	11624.4
	% Fixture	76.3	0.0	76.3
Total	Lumens	15231.0	0.0	15231.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.1
10°-20°	553.7	3.6
20°-30°	985.8	6.5
30°-40°	1436.0	9.4
40°-50°	2212.5	14.5
50°-60°	3240.3	21.3
60°-70°	4302.8	28.3
70°-80°	2028.2	13.3
80°-90°	310.1	2.0
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°	15231.0	100.0
0°-180°	15231.0	100.0



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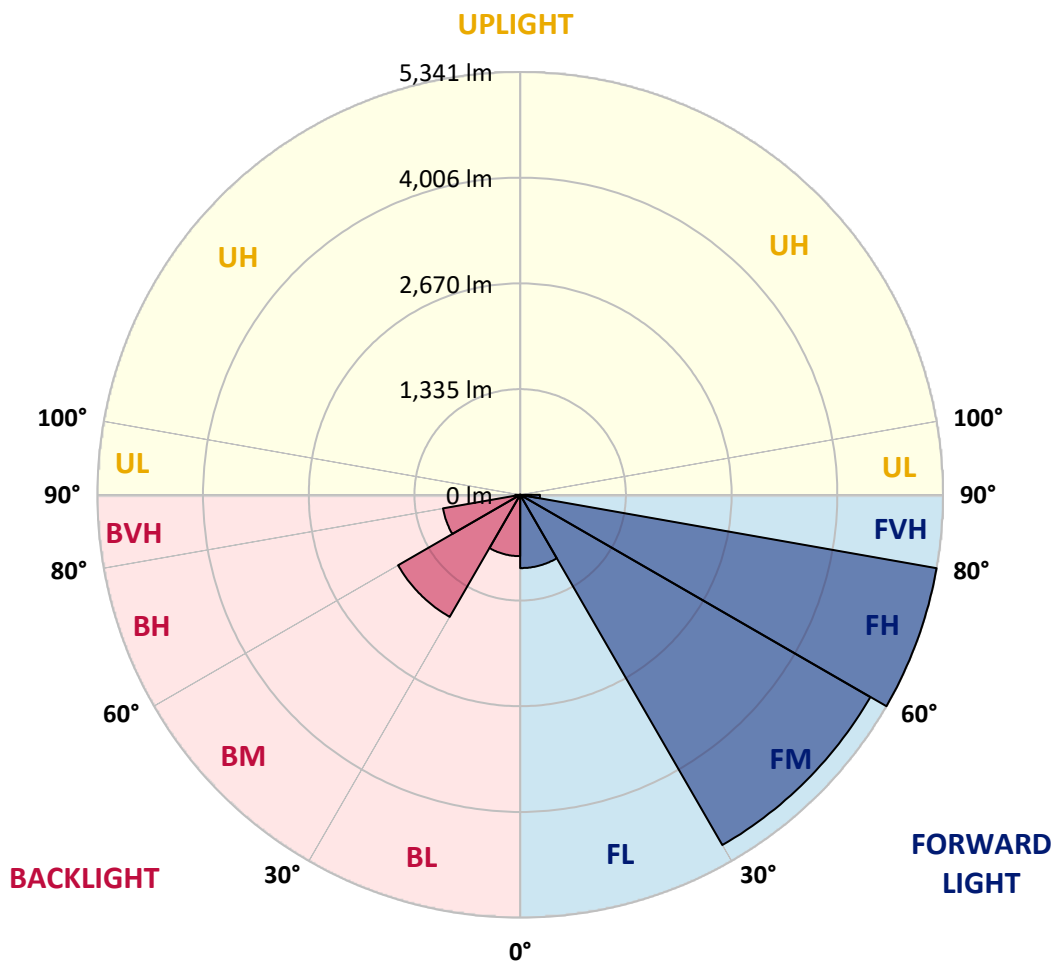
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	925.9	6.1			
FM	(30°-60°)	5107.7	33.5			
FH	(60°-80°)	5340.8	35.1			G3/7500
FVH	(80°-90°)	249.9	1.6			G3/500
BL	(0°-30°)	775.3	5.1	B2/1000		
BM	(30°-60°)	1781.0	11.7	B2/2500		
BH	(60°-80°)	990.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	60.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2
2.5°	1701.3	1694.1	1695.1	1698.2	1687.9	1682.8	1671.5	1664.3	1663.3	1662.3	1658.2
5°	1800.8	1793.6	1796.7	1788.5	1769.0	1755.7	1732.1	1719.8	1717.7	1715.6	1710.5
7.5°	1904.5	1895.2	1885.0	1875.7	1854.2	1832.6	1801.8	1783.4	1781.3	1778.2	1775.2
10°	2027.6	2014.2	2006.0	1977.3	1940.4	1910.6	1879.8	1860.3	1859.3	1856.2	1850.1
12.5°	2166.1	2151.7	2136.4	2098.4	2040.9	1996.8	1960.9	1949.6	1940.4	1941.4	1935.2
15°	2303.6	2288.2	2267.7	2219.5	2143.5	2077.9	2031.7	2015.3	2016.3	2011.2	2014.2
17.5°	2419.6	2406.2	2376.5	2314.9	2226.6	2136.4	2077.9	2070.7	2072.7	2071.7	2074.8
20°	2495.5	2487.3	2442.1	2368.3	2268.7	2169.2	2109.7	2109.7	2110.7	2114.8	2122.0
22.5°	2541.7	2529.3	2469.8	2366.2	2267.7	2184.6	2138.4	2148.7	2154.8	2157.9	2169.2
25°	2567.3	2551.9	2470.9	2333.4	2232.8	2195.9	2181.5	2207.2	2217.4	2222.5	2241.0
27.5°	2567.3	2548.8	2457.5	2292.3	2192.8	2229.7	2263.6	2307.7	2314.9	2330.3	2351.8
30°	2538.6	2524.2	2437.0	2261.5	2182.5	2293.3	2396.0	2446.2	2463.7	2481.1	2508.8
32.5°	2507.8	2495.5	2426.7	2278.0	2240.0	2426.7	2598.1	2666.8	2677.1	2691.5	2720.2
35°	2505.7	2501.6	2471.9	2382.6	2413.4	2671.0	2902.9	2950.1	2978.8	2986.0	2998.3
37.5°	2527.3	2535.5	2561.2	2551.9	2662.7	3034.2	3302.0	3396.4	3419.0	3406.7	3418.0
40°	2577.6	2598.1	2693.5	2811.5	3043.4	3473.4	3845.8	3954.6	3979.2	3972.1	3969.0
42.5°	2736.6	2764.3	2904.9	3157.3	3439.5	3927.9	4350.7	4467.7	4475.9	4480.0	4453.3
45°	2986.0	3001.4	3188.1	3510.3	3868.4	4417.4	4854.5	4984.8	4979.7	4959.2	4939.7
47.5°	3269.2	3301.0	3524.7	3914.6	4311.7	4869.9	5364.5	5491.7	5503.0	5484.5	5448.6
50°	3526.7	3551.4	3803.8	4266.5	4702.6	5246.5	5794.4	5922.7	5920.6	5930.9	5941.2
52.5°	3729.9	3752.5	3992.6	4501.5	4990.0	5562.5	6118.7	6276.7	6301.3	6317.7	6338.3
55°	3834.6	3858.2	4079.8	4599.0	5164.4	5871.4	6493.2	6720.0	6762.0	6799.0	6832.8
57.5°	3836.6	3867.4	4070.6	4591.8	5254.7	6147.4	6988.8	7396.2	7455.7	7550.1	7666.0
60°	3774.0	3817.1	3999.8	4525.1	5358.3	6497.3	7805.6	8585.4	8702.4	8867.6	9016.4
62.5°	3610.9	3654.0	3817.1	4355.8	5479.4	6945.7	8985.6	10128.7	10378.0	10560.7	10855.2
65°	3353.3	3394.4	3531.9	4075.7	5382.9	7299.7	9865.0	11235.9	11490.3	11719.2	12064.9
67°	3123.5	3127.6	3243.5	3754.5	5007.4	7189.9	10041.5	11383.6	11618.6	11850.5	12251.7
67.5°	3042.4	3065.0	3155.3	3647.8	4864.8	7108.9	9971.7	11303.6	11531.4	11778.7	12188.1
70°	2459.6	2465.7	2553.0	2910.0	3860.2	5893.9	8956.9	10282.6	10438.6	10800.8	11203.0
72.5°	1500.2	1489.9	1517.6	1782.3	2540.6	4081.8	7171.5	8465.4	8678.8	8987.7	9259.6
75°	826.0	875.3	909.1	1092.8	1427.3	2400.1	4883.2	6124.8	6437.8	6621.5	6675.8
77.5°	504.8	500.7	516.1	704.9	1170.8	1641.8	2697.6	3593.4	3767.9	3820.2	3618.0
80°	240.1	249.3	246.3	290.4	567.4	1385.2	1886.0	2307.7	2396.0	2446.2	2511.9
82.5°	131.3	136.5	154.9	173.4	223.7	596.2	1627.4	2128.1	2187.7	2273.8	2370.3
85°	82.1	86.2	119.0	125.2	137.5	183.7	678.3	1243.6	1293.9	1465.3	1519.7
87.5°	33.9	36.9	64.6	58.5	69.8	64.6	205.2	316.0	335.5	357.1	396.1
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):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2
2.5°	1659.2	1658.2	1654.1	1653.1	1655.1	1655.1	1653.1	1650.0	1649.0	1647.9	1645.9
5°	1708.5	1706.4	1703.3	1701.3	1700.3	1700.3	1697.2	1694.1	1691.0	1686.9	1685.9
7.5°	1767.0	1767.0	1765.9	1762.8	1759.8	1755.7	1752.6	1749.5	1746.4	1744.4	1741.3
10°	1843.9	1848.0	1840.8	1838.8	1837.8	1831.6	1830.6	1827.5	1825.4	1820.3	1820.3
12.5°	1935.2	1931.1	1930.1	1926.0	1926.0	1922.9	1921.9	1920.9	1918.8	1914.7	1913.7
15°	2011.2	2011.2	2010.1	2008.1	2010.1	2008.1	2005.0	2007.1	2004.0	2005.0	2001.9
17.5°	2072.7	2076.8	2075.8	2076.8	2075.8	2075.8	2077.9	2077.9	2079.9	2075.8	2076.8
20°	2124.0	2130.2	2133.3	2131.2	2133.3	2134.3	2139.4	2141.5	2144.6	2146.6	2146.6
22.5°	2177.4	2185.6	2191.8	2191.8	2195.9	2200.0	2209.2	2211.3	2218.4	2217.4	2222.5
25°	2252.3	2265.6	2269.7	2275.9	2281.0	2288.2	2299.5	2304.6	2307.7	2314.9	2323.1
27.5°	2367.2	2383.6	2386.7	2393.9	2407.2	2411.3	2423.7	2428.8	2440.1	2455.5	2458.5
30°	2524.2	2544.7	2545.8	2554.0	2569.4	2574.5	2584.8	2598.1	2607.3	2622.7	2623.8
32.5°	2737.6	2758.2	2755.1	2770.5	2769.5	2784.9	2781.8	2802.3	2810.5	2818.7	2841.3
35°	3021.9	3019.8	3035.2	3040.4	3037.3	3049.6	3047.5	3056.8	3065.0	3065.0	3089.6
37.5°	3431.3	3428.2	3426.2	3404.6	3399.5	3400.5	3396.4	3404.6	3391.3	3391.3	3418.0
40°	3980.3	3961.8	3947.4	3933.1	3918.7	3899.2	3882.8	3878.7	3856.1	3855.1	3844.8
42.5°	4457.4	4440.0	4429.7	4402.0	4387.6	4384.5	4344.5	4333.2	4327.1	4331.2	4320.9
45°	4958.1	4939.7	4900.7	4888.4	4884.3	4862.7	4856.6	4828.9	4820.6	4835.0	4829.9
47.5°	5474.3	5447.6	5426.0	5411.7	5406.5	5388.1	5361.4	5384.0	5372.7	5364.5	5349.1
50°	5938.1	5908.3	5908.3	5882.7	5886.8	5874.5	5846.7	5852.9	5821.1	5833.4	5825.2
52.5°	6327.0	6329.0	6339.3	6310.5	6315.7	6315.7	6306.4	6276.7	6284.9	6280.8	6300.3
55°	6821.5	6855.4	6836.9	6842.1	6848.2	6877.0	6897.5	6880.0	6851.3	6873.9	6936.5
57.5°	7686.6	7717.3	7735.8	7750.2	7773.8	7787.1	7897.9	7913.3	7880.5	7948.2	8087.8
60°	9190.8	9227.8	9283.2	9356.0	9371.4	9464.8	9522.3	9590.0	9614.6	9673.1	9822.9
62.5°	10999.9	11083.0	11093.2	11185.6	11257.4	11170.2	11192.8	11275.9	11181.5	11310.8	11316.9
65°	12184.0	12305.1	12309.2	12343.0	12369.7	12287.6	12250.7	12213.7	12124.5	12119.3	12208.6
67°	12387.1	12498.0	12544.1	12560.6	12556.5	12514.4	12453.8	12347.1	12260.9	12211.7	12248.6
67.5°	12329.7	12438.5	12503.1	12518.5	12519.5	12478.5	12423.1	12307.1	12226.0	12170.6	12209.6
70°	11385.7	11640.1	11751.0	11693.5	11726.3	11726.3	11724.3	11617.6	11577.5	11524.2	11503.7
72.5°	9466.8	9643.3	9783.9	9709.0	9718.2	9788.0	9771.6	9782.9	9668.0	9655.7	9465.8
75°	6781.5	6838.0	6790.8	6844.1	6556.8	6454.2	6279.8	6025.3	5958.6	5852.9	5536.9
77.5°	3602.7	3539.0	3412.8	3402.6	3284.6	3193.2	3080.4	3006.5	2819.7	2716.1	2479.1
80°	2544.7	2575.5	2623.8	2652.5	2679.2	2699.7	2657.6	2539.6	2383.6	2209.2	2044.0
82.5°	2430.8	2472.9	2501.6	2516.0	2505.7	2472.9	2376.5	2263.6	2055.3	1904.5	1725.9
85°	1533.0	1566.9	1508.4	1496.1	1521.7	1314.4	1200.5	1108.2	897.8	835.2	737.8
87.5°	411.5	434.0	435.1	421.7	413.5	364.3	322.2	285.3	236.0	221.6	179.6
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2
2.5°	1645.9	1644.8	1644.8	1641.8	1639.7	1638.7	1637.7	1634.6	1632.5	1632.5	1631.5
5°	1684.9	1682.8	1679.7	1678.7	1674.6	1672.6	1668.4	1666.4	1663.3	1661.3	1660.2
7.5°	1740.3	1735.1	1729.0	1730.0	1723.9	1720.8	1718.7	1714.6	1711.5	1708.5	1707.4
10°	1814.2	1813.1	1807.0	1809.0	1797.7	1802.9	1792.6	1793.6	1787.5	1781.3	1780.3
12.5°	1908.6	1907.5	1901.4	1894.2	1892.1	1893.2	1887.0	1888.0	1880.9	1878.8	1876.7
15°	1998.9	1996.8	1993.7	1988.6	1985.5	1984.5	1982.4	1980.4	1974.2	1974.2	1967.0
17.5°	2076.8	2077.9	2073.8	2069.7	2067.6	2064.5	2063.5	2063.5	2058.4	2053.2	2054.3
20°	2145.6	2147.6	2147.6	2144.6	2145.6	2143.5	2142.5	2144.6	2139.4	2137.4	2134.3
22.5°	2222.5	2222.5	2223.6	2225.6	2228.7	2229.7	2229.7	2227.7	2224.6	2223.6	2217.4
25°	2329.3	2325.2	2330.3	2332.3	2332.3	2337.5	2335.4	2336.4	2337.5	2334.4	2331.3
27.5°	2463.7	2459.6	2469.8	2477.0	2476.0	2479.1	2485.2	2478.0	2482.1	2485.2	2478.0
30°	2628.9	2639.1	2646.3	2651.5	2649.4	2658.6	2661.7	2660.7	2657.6	2662.7	2662.7
32.5°	2839.2	2834.1	2852.6	2863.9	2864.9	2862.8	2868.0	2874.1	2869.0	2877.2	2873.1
35°	3089.6	3092.7	3096.8	3109.1	3114.2	3106.0	3114.2	3121.4	3119.4	3120.4	3124.5
37.5°	3412.8	3418.0	3413.9	3414.9	3412.8	3451.8	3458.0	3464.1	3456.9	3450.8	3469.3
40°	3861.2	3861.2	3860.2	3873.5	3851.0	3875.6	3868.4	3885.9	3904.3	3894.1	3921.8
42.5°	4302.5	4327.1	4329.1	4309.6	4326.1	4352.7	4352.7	4364.0	4380.4	4364.0	4390.7
45°	4808.3	4839.1	4834.0	4866.8	4842.2	4873.0	4878.1	4863.7	4899.7	4903.8	4893.5
47.5°	5360.4	5366.5	5367.6	5378.8	5384.0	5408.6	5407.6	5434.3	5426.0	5385.0	5399.4
50°	5833.4	5848.8	5857.0	5864.2	5889.8	5907.3	5930.9	5935.0	5928.8	5916.5	5905.2
52.5°	6306.4	6343.4	6367.0	6430.6	6470.6	6502.4	6541.4	6555.8	6548.6	6545.5	6500.4
55°	6939.6	7027.8	7164.3	7252.5	7349.0	7405.4	7450.6	7473.1	7456.7	7464.9	7371.5
57.5°	8131.9	8339.2	8458.2	8609.0	8779.4	8850.2	8869.7	8949.7	8861.4	8773.2	8702.4
60°	9904.0	10094.8	10311.3	10466.3	10523.7	10719.7	10627.4	10523.7	10429.3	10246.7	10040.4
62.5°	11503.7	11749.9	11860.8	12005.4	11966.4	11950.0	11888.5	11723.3	11521.1	11249.2	10974.2
65°	12292.7	12431.3	12500.0	12547.2	12503.1	12389.2	12186.0	11941.8	11652.5	11300.5	10939.3
67°	12324.6	12388.2	12410.7	12365.6	12267.1	12089.6	11833.0	11487.3	11131.2	10727.9	10321.6
67.5°	12272.2	12314.3	12325.6	12254.8	12137.8	11945.9	11671.9	11302.6	10923.9	10505.3	10096.9
70°	11558.1	11527.3	11427.7	11330.3	10965.0	10707.4	10230.3	9836.2	9310.9	8926.1	8490.0
72.5°	9389.9	9249.3	9152.9	8721.9	8280.7	8025.2	7512.1	7041.1	6561.9	6195.6	5927.8
75°	5271.1	5168.5	4900.7	4672.9	4308.6	3975.1	3736.0	3436.4	3149.1	2978.8	2853.6
77.5°	2381.6	2088.1	1886.0	1630.5	1317.5	1058.9	786.0	726.5	619.8	593.1	534.6
80°	1858.3	1647.9	1383.2	1090.8	769.6	517.2	379.7	322.2	302.7	290.4	284.2
82.5°	1550.4	1277.5	1075.4	763.4	488.4	328.4	247.3	223.7	209.3	199.1	189.8
85°	662.9	524.3	432.0	308.9	219.6	173.4	151.9	138.5	125.2	113.9	106.7
87.5°	154.9	119.0	108.8	92.3	87.2	86.2	85.2	81.1	75.9	69.8	62.6
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):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2
2.5°	1630.5	1629.5	1627.4	1624.3	1624.3	1620.2	1606.9	1597.6	1587.4	1581.2	1575.1
5°	1658.2	1657.2	1652.0	1649.0	1646.9	1638.7	1616.1	1598.7	1580.2	1566.9	1556.6
7.5°	1704.4	1701.3	1697.2	1695.1	1689.0	1678.7	1645.9	1621.2	1594.6	1573.0	1555.6
10°	1779.3	1774.1	1768.0	1761.8	1763.9	1747.5	1709.5	1673.6	1634.6	1600.7	1577.1
12.5°	1870.6	1870.6	1867.5	1863.4	1856.2	1837.8	1786.4	1744.4	1697.2	1655.1	1637.7
15°	1967.0	1961.9	1956.8	1950.6	1949.6	1925.0	1878.8	1830.6	1781.3	1745.4	1724.9
17.5°	2046.1	2048.1	2040.9	2038.9	2036.8	2012.2	1962.9	1919.8	1883.9	1846.0	1813.1
20°	2130.2	2126.1	2124.0	2121.0	2119.9	2099.4	2060.4	2033.7	2001.9	1944.5	1858.3
22.5°	2220.5	2215.4	2217.4	2211.3	2210.2	2195.9	2167.1	2158.9	2111.7	1990.6	1840.8
25°	2337.5	2328.2	2331.3	2331.3	2332.3	2319.0	2315.9	2301.6	2182.5	1979.4	1771.1
27.5°	2477.0	2481.1	2481.1	2480.1	2472.9	2477.0	2491.4	2442.1	2207.2	1919.8	1666.4
30°	2658.6	2660.7	2662.7	2669.9	2654.5	2681.2	2698.7	2541.7	2188.7	1837.8	1535.1
32.5°	2879.3	2871.0	2875.1	2879.3	2884.4	2912.1	2901.8	2591.9	2134.3	1725.9	1371.9
35°	3122.4	3137.8	3141.9	3151.2	3161.4	3203.5	3085.5	2602.2	2051.2	1576.1	1163.6
37.5°	3484.7	3509.3	3509.3	3542.1	3522.6	3573.9	3249.7	2577.6	1925.0	1367.8	928.6
40°	3941.3	3952.6	3963.8	3967.9	3957.7	3951.5	3357.4	2517.0	1747.5	1106.1	679.3
42.5°	4407.1	4403.0	4404.0	4411.2	4383.5	4267.6	3424.1	2411.3	1526.8	826.0	487.4
45°	4908.9	4891.4	4886.3	4871.9	4847.3	4603.1	3462.1	2262.6	1236.5	580.8	382.7
47.5°	5397.3	5375.8	5342.9	5302.9	5255.7	4873.0	3458.0	2069.7	948.1	415.6	337.6
50°	5898.1	5860.1	5789.3	5750.3	5670.3	5140.8	3434.4	1855.2	682.4	343.7	316.0
52.5°	6470.6	6402.9	6337.2	6259.2	6126.9	5470.2	3398.5	1614.1	497.7	315.0	301.7
55°	7324.3	7213.5	7105.8	6943.7	6815.4	5911.4	3337.9	1354.5	393.0	303.7	293.5
57.5°	8501.3	8312.5	8176.0	7957.4	7752.2	6521.9	3273.3	1118.5	350.9	300.6	289.4
60°	9826.0	9541.8	9287.3	9018.4	8784.5	7284.3	3239.4	933.8	341.7	303.7	290.4
62.5°	10657.1	10321.6	10003.5	9675.1	9338.6	7648.6	3092.7	806.5	345.8	317.1	298.6
65°	10552.5	10182.0	9836.2	9436.1	9119.0	7304.8	2719.2	682.4	353.0	340.7	321.2
67°	9846.5	9487.4	9093.3	8701.4	8393.5	6651.2	2295.4	574.6	361.2	367.3	345.8
67.5°	9657.7	9253.4	8856.3	8496.2	8162.7	6449.1	2184.6	547.9	363.2	374.5	354.0
70°	8053.9	7733.8	7268.9	7002.1	6761.0	5228.0	1629.5	425.8	369.4	406.3	393.0
72.5°	5635.4	5325.5	5082.3	4936.6	4796.0	3798.6	1146.2	339.6	360.2	423.8	410.4
75°	2846.4	2775.6	2690.4	2643.2	2645.3	2208.2	690.6	289.4	338.6	406.3	372.5
77.5°	562.3	547.9	554.1	606.4	597.2	680.3	342.7	245.2	288.3	313.0	267.8
80°	271.9	262.7	254.5	252.4	247.3	237.0	215.5	204.2	234.0	206.2	177.5
82.5°	176.5	166.2	162.1	153.9	154.9	168.3	187.8	196.0	189.8	142.6	120.1
85°	99.5	98.5	96.5	98.5	102.6	134.4	201.1	183.7	152.9	100.6	90.3
87.5°	59.5	56.4	57.5	58.5	60.5	99.5	159.0	132.4	97.5	52.3	53.4
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):

	155°	165°	175°	180°
0°	1620.2	1620.2	1620.2	1620.2
2.5°	1574.0	1569.9	1569.9	1568.9
5°	1548.4	1542.2	1541.2	1541.2
7.5°	1544.3	1536.1	1535.1	1532.0
10°	1562.8	1559.7	1560.7	1557.6
12.5°	1621.2	1625.4	1629.5	1629.5
15°	1710.5	1707.4	1712.6	1707.4
17.5°	1776.2	1749.5	1743.4	1740.3
20°	1778.2	1722.8	1704.4	1701.3
22.5°	1714.6	1632.5	1601.8	1596.6
25°	1606.9	1503.2	1464.3	1460.1
27.5°	1471.4	1355.5	1298.0	1296.0
30°	1308.3	1170.8	1097.9	1086.6
32.5°	1109.2	946.1	869.1	844.5
35°	879.4	712.1	640.3	638.2
37.5°	656.7	526.4	480.2	478.2
40°	481.2	413.5	396.1	393.0
42.5°	393.0	365.3	358.1	355.0
45°	352.0	340.7	336.6	333.5
47.5°	327.3	320.1	317.1	317.1
50°	307.8	305.8	303.7	303.7
52.5°	294.5	293.5	291.4	290.4
55°	283.2	279.1	280.1	279.1
57.5°	276.0	269.9	269.9	269.9
60°	271.9	260.6	260.6	261.7
62.5°	272.9	255.5	254.5	254.5
65°	281.2	252.4	246.3	247.3
67°	291.4	249.3	237.0	236.0
67.5°	294.5	247.3	234.0	232.9
70°	306.8	241.1	218.6	216.5
72.5°	308.9	231.9	203.2	201.1
75°	287.3	219.6	190.9	185.7
77.5°	223.7	188.8	172.4	172.4
80°	157.0	144.7	123.1	122.1
82.5°	114.9	108.8	90.3	88.2
85°	84.1	79.0	66.7	66.7
87.5°	52.3	50.3	43.1	41.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)