

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: P144877

Luminaire Tested: **LDRL-SL2-F06-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144877
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-F06-E-7060
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14881.3 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

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

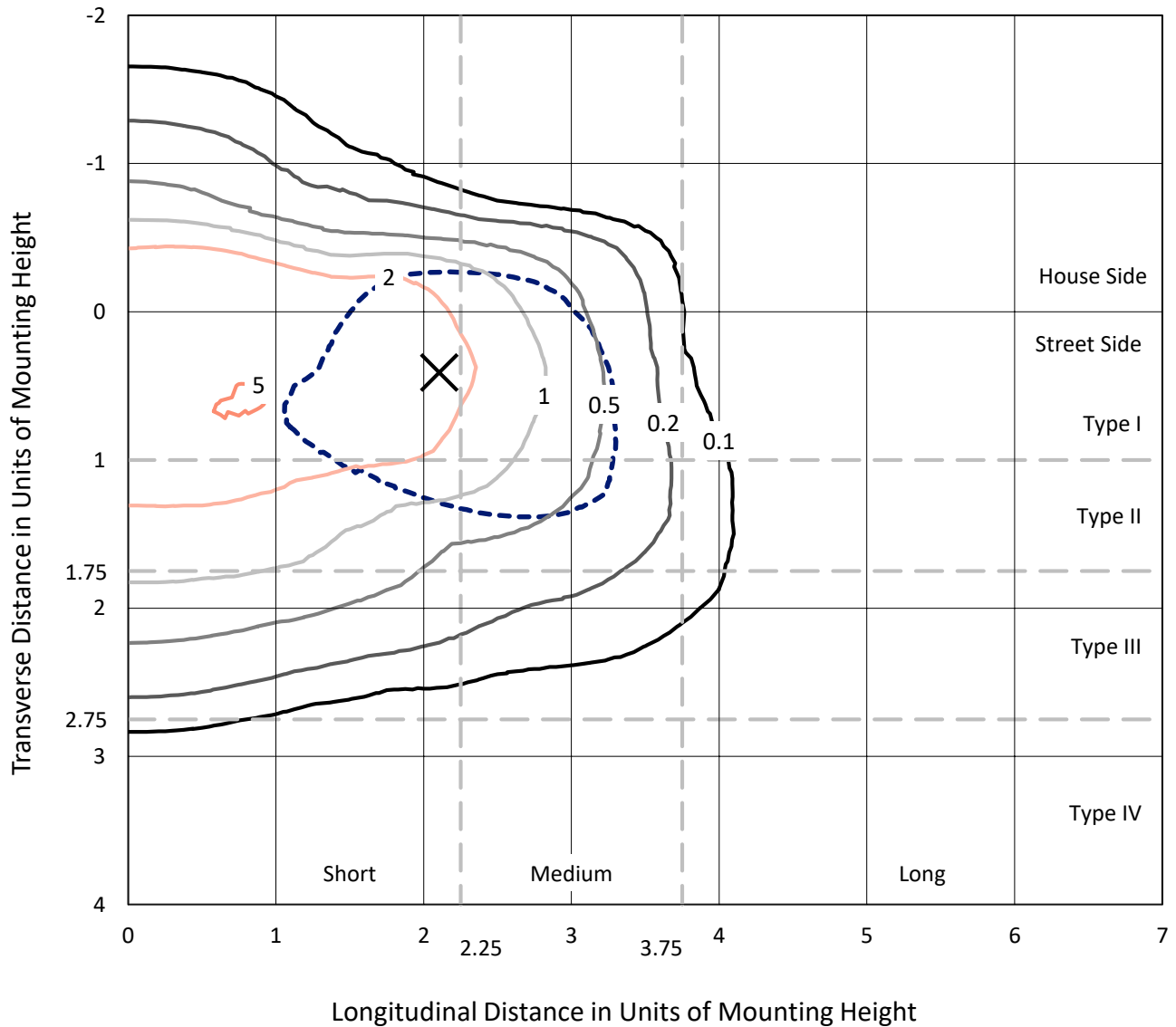


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Iso-Footcandle Lines of Horizontal Illumination

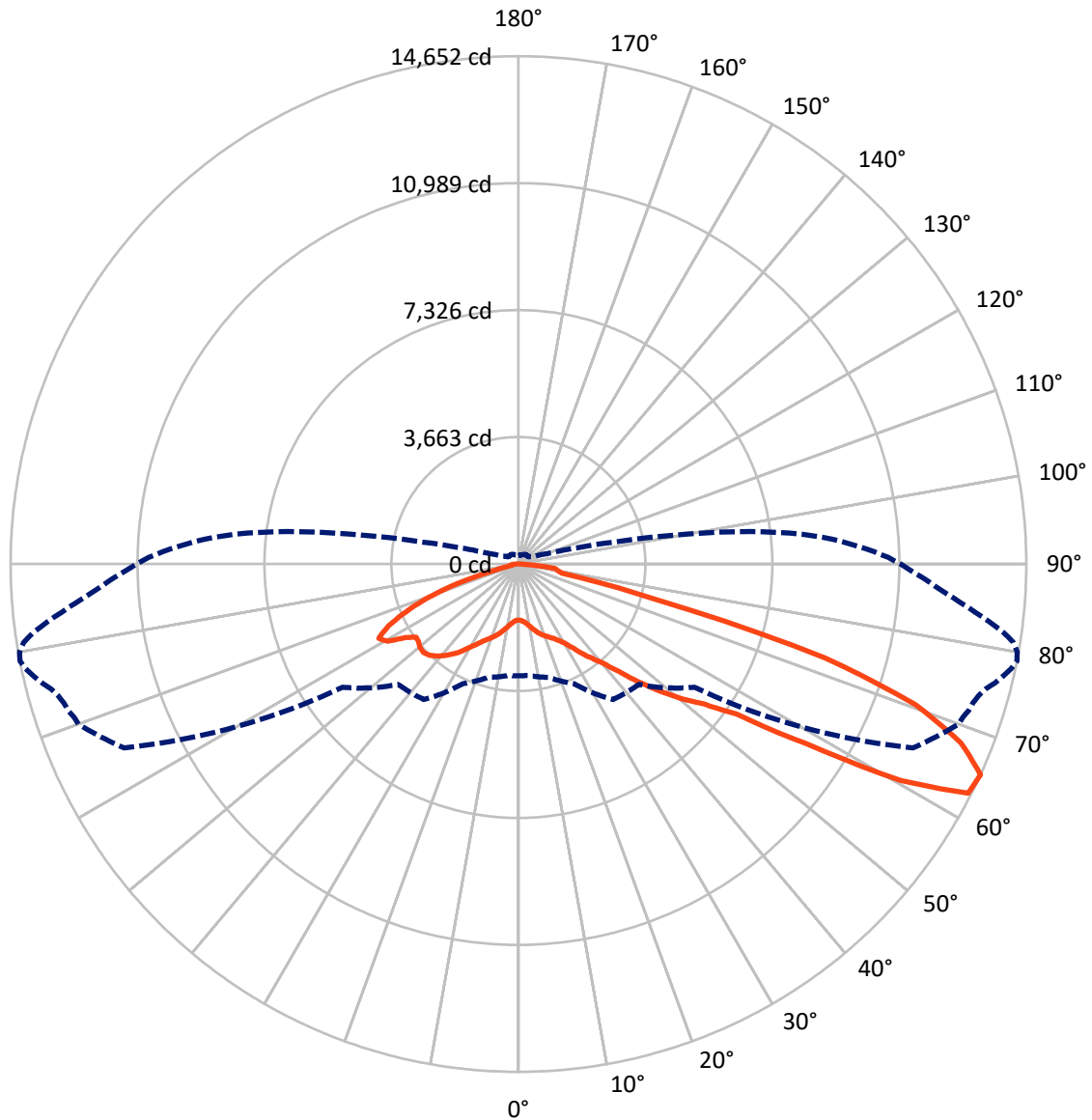
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	3377.9	0.0	3377.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11503.5	0.0	11503.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	14881.3	0.0	14881.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	1.1
10°-20°	522.5	3.5
20°-30°	900.9	6.1
30°-40°	1469.1	9.9
40°-50°	2452.5	16.5
50°-60°	3316.3	22.3
60°-70°	4119.8	27.7
70°-80°	1649.7	11.1
80°-90°	289.9	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°	14881.3	100.0
0°-180°	14881.3	100.0



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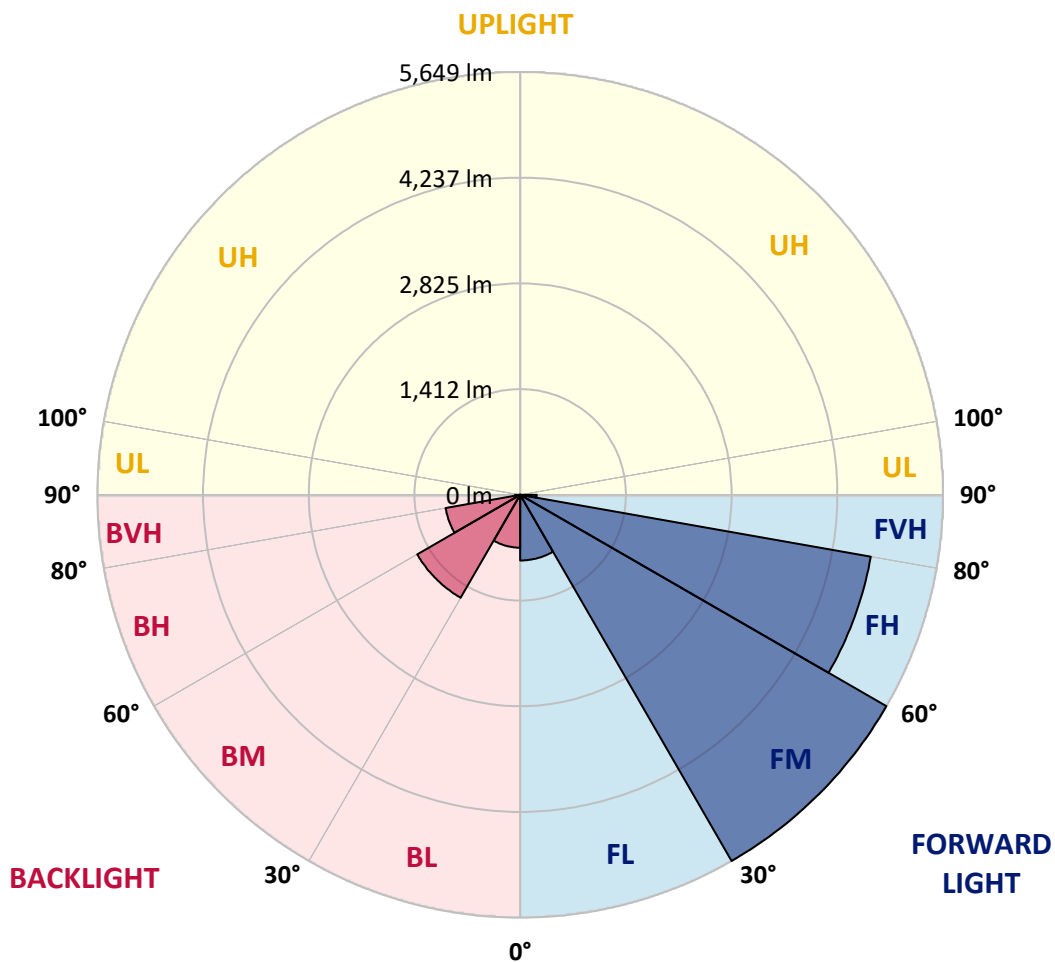
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.5	5.9			
FM (30°-60°)	5649.2	38.0			
FH (60°-80°)	4756.9	32.0			G2/5000
FVH (80°-90°)	219.9	1.5			G2/225
BL (0°-30°)	706.5	4.7	B2/1000		
BM (30°-60°)	1588.7	10.7	B2/2500		
BH (60°-80°)	1012.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	70.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1629.4	1628.4	1633.5	1637.6	1637.6	1639.6	1638.6	1632.5	1633.5	1635.5	1633.5
5°	1647.7	1643.7	1648.7	1654.8	1658.9	1664.0	1669.1	1670.1	1674.2	1674.2	1673.1
7.5°	1687.4	1684.3	1691.4	1693.5	1702.6	1710.8	1720.9	1728.0	1732.1	1734.1	1737.2
10°	1755.5	1753.4	1755.5	1759.5	1763.6	1772.8	1790.0	1805.3	1814.4	1814.4	1818.5
12.5°	1837.8	1829.7	1831.7	1823.6	1825.6	1844.9	1865.3	1890.7	1905.9	1908.0	1910.0
15°	1901.9	1897.8	1894.7	1883.6	1891.7	1917.1	1948.6	1985.2	1998.4	2009.6	2008.6
17.5°	1961.8	1956.7	1949.6	1934.4	1942.5	1983.2	2030.9	2071.6	2094.0	2096.0	2098.0
20°	2033.0	2026.9	2013.7	1982.2	1980.1	2037.0	2101.1	2144.8	2165.1	2174.3	2177.3
22.5°	2123.4	2115.3	2090.9	2029.9	2013.7	2080.8	2157.0	2210.9	2232.2	2241.4	2246.4
25°	2239.3	2223.1	2184.4	2088.9	2055.3	2125.5	2217.0	2282.0	2311.5	2320.6	2326.7
27.5°	2344.0	2331.8	2285.1	2172.2	2114.3	2185.5	2290.2	2373.5	2414.2	2425.3	2434.5
30°	2466.0	2448.7	2411.1	2291.2	2213.9	2276.9	2410.1	2515.8	2565.6	2566.6	2587.0
32.5°	2752.7	2741.5	2706.9	2574.8	2444.7	2448.7	2572.7	2718.1	2767.9	2776.0	2794.3
35°	3177.6	3173.5	3172.5	3099.3	3002.7	2903.1	2912.2	3023.0	3056.6	3069.8	3075.9
37.5°	3457.1	3492.7	3579.1	3631.9	3607.5	3628.9	3517.1	3381.9	3362.6	3348.3	3354.4
40°	3698.0	3729.5	3904.3	4148.3	4296.7	4401.4	4302.8	3888.1	3733.6	3688.8	3671.6
42.5°	3840.3	3875.9	4125.9	4516.3	4894.4	5142.4	5168.9	4592.5	4200.1	4195.1	4130.0
45°	3917.6	3953.1	4252.0	4777.5	5312.2	5759.4	5991.2	5459.6	4883.2	4840.5	4750.1
47.5°	3902.3	3935.9	4246.9	4874.1	5559.2	6169.1	6632.6	6335.8	5671.0	5568.3	5443.3
50°	3716.3	3740.7	4067.0	4716.5	5493.1	6339.9	7071.7	7139.8	6562.5	6423.2	6236.2
52.5°	3524.2	3567.9	3838.3	4437.0	5193.3	6234.1	7334.0	7871.7	7395.0	7299.4	7059.5
55°	3420.5	3455.1	3675.6	4186.9	4877.1	5873.3	7442.7	8561.9	8406.4	8367.8	8198.0
57.5°	3416.4	3450.0	3625.8	4035.5	4620.0	5497.2	7474.3	9628.2	10084.6	10094.8	10046.0
60°	3583.1	3617.7	3765.1	4108.7	4540.7	5175.0	7361.4	11140.7	12149.1	12238.5	12388.0
62.5°	3606.5	3622.8	3800.7	4264.2	4829.3	4934.0	6896.9	12400.2	13568.1	13650.5	13732.8
65°	3226.3	3225.3	3382.9	3809.8	4769.4	4909.7	6198.6	12554.7	13511.2	13561.0	13663.7
67.5°	2406.0	2385.7	2475.2	2865.5	3784.4	4915.7	5371.1	11388.8	12458.1	12552.6	12587.2
70°	1240.1	1271.6	1332.6	1571.5	2403.0	3957.2	4613.9	9608.9	10936.4	10972.0	11095.0
72.5°	509.3	496.0	537.7	660.7	1202.5	2615.4	3816.9	7583.0	9032.5	9008.1	9030.5
75°	283.6	287.7	299.9	344.6	584.5	1313.3	3279.2	5368.1	6142.7	5721.8	5594.8
77.5°	227.7	229.7	230.7	238.9	319.2	700.4	2516.8	3535.4	3089.1	2868.5	2784.2
80°	166.7	177.9	190.1	192.1	219.6	397.4	1380.4	2976.3	2607.3	2424.3	2273.9
82.5°	134.2	139.3	165.7	169.8	174.8	236.8	625.1	2795.3	2597.1	2410.1	2202.7
85°	80.3	89.5	135.2	136.2	138.2	144.3	345.6	1138.5	1416.0	1251.3	1145.6
87.5°	28.5	36.6	67.1	55.9	71.2	59.0	151.5	381.2	469.6	446.2	395.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1632.5	1632.5	1634.5	1633.5	1633.5	1633.5	1633.5	1631.5	1631.5	1628.4	1630.5
5°	1673.1	1672.1	1673.1	1674.2	1673.1	1675.2	1674.2	1673.1	1674.2	1673.1	1674.2
7.5°	1738.2	1733.1	1740.2	1736.2	1735.1	1741.2	1738.2	1741.2	1742.3	1741.2	1740.2
10°	1820.5	1823.6	1823.6	1823.6	1821.6	1827.7	1828.7	1830.7	1831.7	1835.8	1835.8
12.5°	1915.1	1916.1	1920.2	1919.1	1921.2	1928.3	1933.4	1934.4	1935.4	1938.4	1934.4
15°	2016.7	2018.8	2018.8	2027.9	2024.8	2035.0	2038.1	2038.1	2039.1	2051.3	2052.3
17.5°	2107.2	2107.2	2115.3	2115.3	2123.4	2125.5	2134.6	2135.6	2139.7	2150.9	2151.9
20°	2183.4	2187.5	2192.6	2198.7	2201.7	2207.8	2213.9	2220.0	2225.1	2234.2	2235.3
22.5°	2255.6	2259.7	2267.8	2271.9	2279.0	2283.0	2288.1	2295.2	2303.4	2315.6	2318.6
25°	2338.9	2343.0	2352.2	2358.3	2366.4	2372.5	2381.6	2390.8	2395.9	2408.1	2417.2
27.5°	2444.7	2456.9	2469.1	2472.1	2478.2	2492.4	2504.6	2516.8	2528.0	2534.1	2545.3
30°	2599.2	2599.2	2624.6	2624.6	2635.8	2649.0	2657.1	2670.3	2690.7	2696.7	2711.0
32.5°	2806.5	2811.6	2820.8	2848.2	2868.5	2874.6	2880.7	2900.0	2912.2	2927.5	2944.8
35°	3102.3	3107.4	3112.5	3138.9	3162.3	3168.4	3174.5	3186.7	3207.0	3233.5	3225.3
37.5°	3367.6	3370.7	3386.9	3416.4	3429.6	3445.9	3451.0	3473.3	3484.5	3508.9	3509.9
40°	3686.8	3679.7	3688.8	3722.4	3742.7	3741.7	3758.0	3798.6	3806.8	3817.9	3846.4
42.5°	4132.0	4105.6	4134.1	4145.2	4175.7	4195.1	4227.6	4255.0	4274.3	4317.0	4337.4
45°	4707.4	4679.9	4703.3	4708.4	4771.4	4790.7	4839.5	4876.1	4917.8	4966.6	4980.8
47.5°	5363.0	5312.2	5283.7	5315.2	5390.5	5422.0	5469.7	5504.3	5548.0	5573.4	5565.3
50°	6122.3	6000.3	5943.4	5927.2	5981.0	6025.8	6100.0	6116.2	6136.6	6135.5	6136.6
52.5°	6969.1	6842.0	6723.1	6640.7	6632.6	6692.6	6710.9	6714.9	6708.8	6663.1	6634.6
55°	8075.0	8065.9	7940.8	7770.1	7758.9	7751.8	7645.0	7631.8	7607.4	7537.3	7440.7
57.5°	10081.6	10183.2	10100.9	10096.8	10007.4	9948.4	9752.2	9654.6	9552.0	9361.9	9210.4
60°	12401.2	12548.6	12629.9	12665.5	12840.3	12840.3	12679.7	12541.5	12374.8	12085.1	11802.5
62.5°	13797.8	13926.9	14046.9	14234.9	14457.5	14556.1	14564.3	14441.3	14230.9	13900.5	13501.0
65°	13709.4	13805.0	13950.3	14171.9	14355.9	14532.8	14651.7	14614.1	14453.5	14123.1	13688.1
67.5°	12708.2	12847.4	13035.5	13239.8	13410.6	13577.3	13769.4	13783.6	13740.9	13426.8	13033.4
70°	11163.1	11342.0	11460.9	11718.1	11795.4	11964.1	12157.2	12249.7	12180.6	11938.7	11707.9
72.5°	9069.1	9210.4	9230.8	9118.9	9157.6	9199.2	9246.0	9029.5	8946.1	8622.9	8474.5
75°	5499.2	5313.2	5156.7	5001.1	4536.6	4371.9	4118.8	3619.7	3562.8	3220.2	2982.4
77.5°	2615.4	2537.2	2395.9	2159.0	1843.9	1542.0	1279.8	1039.9	950.4	782.7	666.8
80°	2189.5	2096.0	1968.9	1793.1	1572.5	1352.9	1145.6	967.7	788.8	642.4	513.3
82.5°	2008.6	1845.9	1667.0	1515.6	1360.1	1210.6	1071.4	910.8	816.2	658.7	537.7
85°	1015.5	889.4	720.7	606.8	512.3	416.8	360.9	308.0	274.5	218.5	190.1
87.5°	340.5	278.5	207.4	175.9	158.6	136.2	125.0	118.9	115.9	102.7	91.5
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1630.5	1630.5	1630.5	1630.5	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1630.5
5°	1672.1	1672.1	1673.1	1676.2	1670.1	1672.1	1674.2	1671.1	1674.2	1671.1	1675.2
7.5°	1739.2	1742.3	1740.2	1744.3	1742.3	1748.4	1744.3	1741.2	1743.3	1743.3	1744.3
10°	1833.7	1837.8	1834.8	1836.8	1836.8	1840.9	1835.8	1836.8	1837.8	1835.8	1836.8
12.5°	1938.4	1940.5	1939.5	1945.6	1942.5	1945.6	1942.5	1946.6	1948.6	1950.6	1950.6
15°	2052.3	2054.3	2060.4	2059.4	2065.5	2063.5	2064.5	2059.4	2069.6	2063.5	2065.5
17.5°	2157.0	2156.0	2164.1	2167.2	2168.2	2169.2	2172.2	2168.2	2169.2	2172.2	2170.2
20°	2238.3	2245.4	2247.5	2255.6	2261.7	2263.7	2262.7	2265.8	2269.8	2265.8	2265.8
22.5°	2324.7	2334.9	2337.9	2343.0	2349.1	2350.1	2356.2	2359.3	2361.3	2360.3	2361.3
25°	2428.4	2435.5	2442.6	2452.8	2459.9	2460.9	2466.0	2470.1	2471.1	2470.1	2476.2
27.5°	2555.5	2564.6	2573.8	2586.0	2594.1	2596.1	2607.3	2607.3	2613.4	2616.4	2618.5
30°	2719.1	2722.2	2745.5	2757.7	2754.7	2768.9	2784.2	2783.2	2790.3	2792.3	2797.4
32.5°	2957.0	2957.0	2977.3	2992.5	3008.8	3003.7	3027.1	3023.0	3034.2	3040.3	3037.3
35°	3245.7	3255.8	3271.1	3280.2	3297.5	3306.6	3322.9	3332.1	3337.1	3336.1	3324.9
37.5°	3543.5	3559.8	3565.8	3588.2	3605.5	3620.7	3622.8	3612.6	3616.7	3596.3	3590.2
40°	3884.0	3907.4	3921.6	3955.2	3953.1	3972.4	3974.5	3945.0	3939.9	3913.5	3886.0
42.5°	4359.7	4392.3	4403.4	4428.9	4408.5	4417.7	4366.8	4354.6	4314.0	4271.3	4209.3
45°	5001.1	4984.9	4992.0	4984.9	4931.0	4891.4	4849.7	4789.7	4729.7	4647.4	4559.0
47.5°	5565.3	5573.4	5520.6	5487.0	5399.6	5343.7	5267.5	5162.8	5089.6	4978.8	4861.9
50°	6113.2	6022.7	5948.5	5871.3	5794.0	5691.3	5576.5	5484.0	5377.2	5239.0	5095.7
52.5°	6558.4	6441.5	6352.1	6242.3	6137.6	6023.7	5903.8	5769.6	5629.3	5491.1	5314.2
55°	7347.2	7177.4	7062.6	6870.5	6751.5	6591.9	6498.4	6324.6	6129.4	5946.5	5758.4
57.5°	9039.7	8785.5	8654.4	8545.6	8360.6	8098.4	7931.7	7646.0	7367.5	7172.4	6859.3
60°	11589.0	11330.8	11113.3	10856.1	10572.5	10216.7	10058.2	9721.7	9323.3	9001.0	8587.3
62.5°	13177.8	12821.0	12468.3	12107.4	11822.8	11544.3	11216.0	10876.5	10482.1	10043.9	9591.6
65°	13241.8	12813.9	12392.0	12024.1	11690.7	11328.8	11020.8	10676.2	10261.5	9810.2	9340.5
67.5°	12577.0	12098.3	11645.9	11242.4	10861.2	10525.8	10203.5	9879.3	9435.1	9056.9	8576.1
70°	11252.6	10815.5	10405.8	9946.4	9654.6	9277.5	8963.4	8621.9	8303.7	7950.0	7499.7
72.5°	8265.1	7935.7	7468.2	7273.0	7116.5	6717.0	6483.2	6454.7	6251.4	5827.5	5491.1
75°	3073.9	2616.4	2478.2	2560.5	2423.3	2469.1	2451.8	2354.2	2358.3	2286.1	2200.7
77.5°	601.8	559.1	525.5	534.7	497.1	480.8	515.4	505.2	486.9	492.0	483.8
80°	409.6	346.6	314.1	301.9	286.7	279.5	277.5	274.5	268.4	265.3	256.2
82.5°	403.5	299.9	236.8	203.3	191.1	185.0	179.9	178.9	176.9	175.9	178.9
85°	160.6	130.1	118.9	108.8	105.7	102.7	102.7	101.6	100.6	102.7	106.7
87.5°	78.3	66.1	60.0	54.9	52.9	51.8	51.8	52.9	53.9	57.9	66.1
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1628.4	1629.4	1627.4	1628.4	1627.4	1625.4	1624.4	1627.4	1626.4	1625.4	1625.4
5°	1670.1	1674.2	1672.1	1670.1	1670.1	1669.1	1669.1	1669.1	1668.1	1669.1	1666.0
7.5°	1742.3	1741.2	1741.2	1739.2	1737.2	1739.2	1738.2	1735.1	1736.2	1734.1	1731.1
10°	1834.8	1831.7	1836.8	1836.8	1832.7	1831.7	1829.7	1826.6	1826.6	1823.6	1823.6
12.5°	1944.5	1941.5	1948.6	1943.5	1937.4	1936.4	1930.3	1928.3	1931.3	1930.3	1928.3
15°	2056.4	2057.4	2060.4	2059.4	2052.3	2052.3	2044.2	2045.2	2039.1	2037.0	2032.0
17.5°	2165.1	2166.1	2163.1	2163.1	2158.0	2155.0	2145.8	2146.8	2142.8	2134.6	2128.5
20°	2262.7	2261.7	2254.6	2260.7	2250.5	2248.5	2240.3	2232.2	2234.2	2226.1	2213.9
22.5°	2358.3	2356.2	2354.2	2351.1	2346.1	2344.0	2334.9	2333.9	2323.7	2311.5	2301.3
25°	2469.1	2468.0	2465.0	2466.0	2455.8	2456.9	2440.6	2436.5	2430.4	2417.2	2409.1
27.5°	2612.4	2612.4	2604.2	2601.2	2598.2	2594.1	2579.9	2569.7	2554.4	2539.2	2522.9
30°	2788.2	2786.2	2784.2	2776.0	2764.9	2758.8	2733.3	2717.1	2696.7	2668.3	2643.9
32.5°	3039.3	3022.0	3007.8	2989.5	2971.2	2951.9	2912.2	2884.8	2852.3	2806.5	2767.9
35°	3318.8	3289.4	3274.1	3236.5	3201.9	3163.3	3115.5	3059.6	3014.9	2954.9	2891.9
37.5°	3549.6	3527.2	3486.6	3443.9	3395.1	3321.9	3268.0	3208.0	3129.8	3063.7	2987.5
40°	3834.2	3783.4	3725.4	3654.3	3587.2	3504.9	3430.7	3344.3	3248.7	3153.2	3053.5
42.5°	4133.1	4054.8	3959.2	3876.9	3775.2	3667.5	3570.9	3454.0	3332.1	3204.0	3070.8
45°	4438.0	4341.4	4214.4	4097.5	3956.2	3821.0	3682.7	3523.2	3356.5	3185.7	3018.0
47.5°	4717.5	4576.2	4431.9	4274.3	4111.7	3937.9	3741.7	3532.3	3312.7	3088.1	2878.7
50°	4937.1	4760.2	4578.3	4396.3	4197.1	3971.4	3724.4	3451.0	3180.6	2911.2	2670.3
52.5°	5131.2	4933.0	4709.4	4483.7	4237.7	3960.2	3651.2	3329.0	2999.7	2701.8	2431.4
55°	5507.3	5258.3	4963.5	4672.8	4361.8	4012.1	3626.8	3232.4	2853.3	2529.0	2241.4
57.5°	6528.9	6192.5	5736.1	5332.5	4938.1	4428.9	3886.0	3400.2	2917.3	2534.1	2213.9
60°	8138.0	7590.1	7067.7	6452.7	5814.3	5116.0	4388.2	3733.6	3145.0	2664.2	2279.0
62.5°	9071.2	8492.8	7820.9	7075.8	6248.4	5397.6	4562.0	3797.6	3152.1	2628.6	2201.7
65°	8819.1	8237.6	7498.7	6736.3	5856.0	4985.9	4156.4	3422.5	2796.4	2312.5	1903.9
67.5°	8070.9	7463.1	6768.8	5923.1	5081.4	4275.4	3519.1	2827.9	2273.9	1822.6	1461.7
70°	6982.3	6441.5	5772.7	4993.0	4176.8	3452.0	2814.7	2191.6	1723.0	1309.2	1024.6
72.5°	5182.1	4703.3	4285.5	3634.0	3036.3	2468.0	1948.6	1524.7	1121.2	847.8	652.6
75°	2175.3	2013.7	1945.6	1706.7	1484.1	1216.7	915.9	729.8	591.6	503.2	399.5
77.5°	527.6	527.6	496.0	464.5	426.9	386.3	341.5	304.9	286.7	270.4	257.2
80°	256.2	254.1	246.0	245.0	237.9	228.7	223.6	216.5	213.5	209.4	207.4
82.5°	179.9	178.9	175.9	179.9	178.9	183.0	185.0	186.0	186.0	187.0	188.1
85°	113.8	117.9	126.0	136.2	145.4	156.5	166.7	174.8	180.9	186.0	190.1
87.5°	72.2	82.3	88.4	103.7	118.9	136.2	155.5	163.7	170.8	171.8	165.7
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1625.4	1624.4	1626.4	1624.4	1624.4	1623.3	1620.3	1617.2	1614.2	1613.2	1610.1
5°	1665.0	1665.0	1667.0	1663.0	1664.0	1659.9	1650.8	1640.6	1631.5	1623.3	1614.2
7.5°	1732.1	1729.1	1730.1	1729.1	1727.0	1718.9	1698.6	1673.1	1648.7	1623.3	1603.0
10°	1821.6	1815.5	1815.5	1813.4	1810.4	1799.2	1756.5	1705.7	1654.8	1609.1	1575.6
12.5°	1921.2	1922.2	1914.1	1909.0	1903.9	1880.5	1816.5	1735.1	1654.8	1581.7	1527.8
15°	2024.8	2023.8	2014.7	2011.6	2000.5	1965.9	1869.3	1750.4	1635.5	1527.8	1447.5
17.5°	2118.4	2114.3	2105.2	2099.1	2086.9	2041.1	1904.9	1743.3	1584.7	1443.4	1342.8
20°	2203.8	2198.7	2190.5	2179.4	2167.2	2101.1	1918.1	1706.7	1504.4	1342.8	1241.1
22.5°	2292.2	2281.0	2271.9	2256.6	2243.4	2155.0	1909.0	1641.6	1412.9	1231.0	1122.2
25°	2390.8	2377.6	2358.3	2340.0	2319.6	2198.7	1883.6	1560.3	1303.1	1110.0	1000.2
27.5°	2497.5	2478.2	2452.8	2429.4	2396.9	2231.2	1839.8	1469.8	1183.2	990.1	876.2
30°	2610.3	2574.8	2543.3	2507.7	2466.0	2246.4	1776.8	1358.0	1051.1	868.1	754.2
32.5°	2720.1	2672.4	2625.6	2573.8	2516.8	2240.3	1687.4	1225.9	918.9	754.2	658.7
35°	2831.9	2762.8	2697.8	2627.6	2558.5	2209.9	1564.4	1079.5	793.9	659.7	590.6
37.5°	2908.2	2821.8	2735.4	2651.0	2567.7	2143.8	1400.7	915.9	681.0	591.6	541.8
40°	2946.8	2841.1	2735.4	2630.7	2528.0	2034.0	1209.6	766.4	600.7	540.8	505.2
42.5°	2935.6	2804.5	2673.4	2549.4	2423.3	1859.2	1002.3	643.4	544.8	501.1	469.6
45°	2843.1	2686.6	2537.2	2406.0	2248.5	1634.5	823.4	567.2	502.1	468.6	439.1
47.5°	2669.3	2494.5	2311.5	2163.1	2015.7	1374.3	685.1	519.4	464.5	437.1	407.6
50°	2447.7	2245.4	2062.5	1901.9	1757.5	1131.4	590.6	478.8	434.0	410.7	379.2
52.5°	2203.8	1986.2	1819.5	1650.8	1509.5	944.3	524.5	434.0	404.6	380.2	354.8
55°	2001.5	1800.2	1630.5	1460.7	1318.4	826.4	469.6	399.5	377.1	351.7	331.4
57.5°	1947.6	1717.9	1532.9	1372.3	1225.9	754.2	430.0	368.0	352.7	333.4	311.0
60°	1970.0	1716.9	1509.5	1333.6	1180.1	696.3	400.5	346.6	334.4	317.1	293.8
62.5°	1889.7	1622.3	1412.9	1225.9	1080.5	623.1	379.2	336.5	328.3	304.9	278.5
65°	1610.1	1365.1	1163.9	1002.3	877.2	524.5	361.9	345.6	337.5	296.8	268.4
67.5°	1225.9	1021.6	860.0	739.0	648.5	434.0	357.8	376.1	359.8	300.9	265.3
70°	847.8	693.2	589.6	516.4	459.5	365.9	371.0	409.6	386.3	314.1	282.6
72.5°	537.7	449.3	398.5	371.0	343.6	309.0	368.0	405.6	374.1	316.1	282.6
75°	344.6	308.0	290.7	280.6	272.4	269.4	324.3	333.4	300.9	274.5	263.3
77.5°	244.0	237.9	234.8	233.8	234.8	241.9	268.4	251.1	218.5	219.6	225.7
80°	206.3	206.3	204.3	205.3	207.4	210.4	214.5	185.0	167.7	180.9	201.3
82.5°	189.1	192.1	194.1	196.2	199.2	195.2	182.0	140.3	135.2	175.9	197.2
85°	192.1	192.1	193.1	195.2	196.2	175.9	151.5	105.7	103.7	197.2	186.0
87.5°	164.7	162.6	155.5	150.4	143.3	121.0	100.6	59.0	61.0	122.0	130.1
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):

	175°	180°
0°	1617.2	1617.2
2.5°	1609.1	1609.1
5°	1609.1	1609.1
7.5°	1595.9	1591.8
10°	1557.3	1552.2
12.5°	1498.3	1493.2
15°	1407.8	1401.7
17.5°	1295.0	1284.8
20°	1177.1	1162.9
22.5°	1059.2	1048.0
25°	938.2	928.1
27.5°	819.3	809.1
30°	709.5	705.4
32.5°	628.2	624.1
35°	568.2	566.2
37.5°	527.6	525.5
40°	492.0	489.9
42.5°	459.5	456.4
45°	426.9	427.9
47.5°	394.4	393.4
50°	365.9	365.9
52.5°	342.6	341.5
55°	321.2	320.2
57.5°	299.9	298.8
60°	281.6	278.5
62.5°	264.3	262.3
65°	253.1	252.1
67.5°	245.0	241.9
70°	242.9	234.8
72.5°	236.8	226.7
75°	222.6	217.5
77.5°	196.2	190.1
80°	151.5	140.3
82.5°	127.1	109.8
85°	93.5	86.4
87.5°	68.1	53.9
90°	0.0	0.0

(END OF REPORT)