

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: P144862

Luminaire Tested: **LDRL-SL2-E05-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144862
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-E05-E-7060
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (105) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15022.1 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

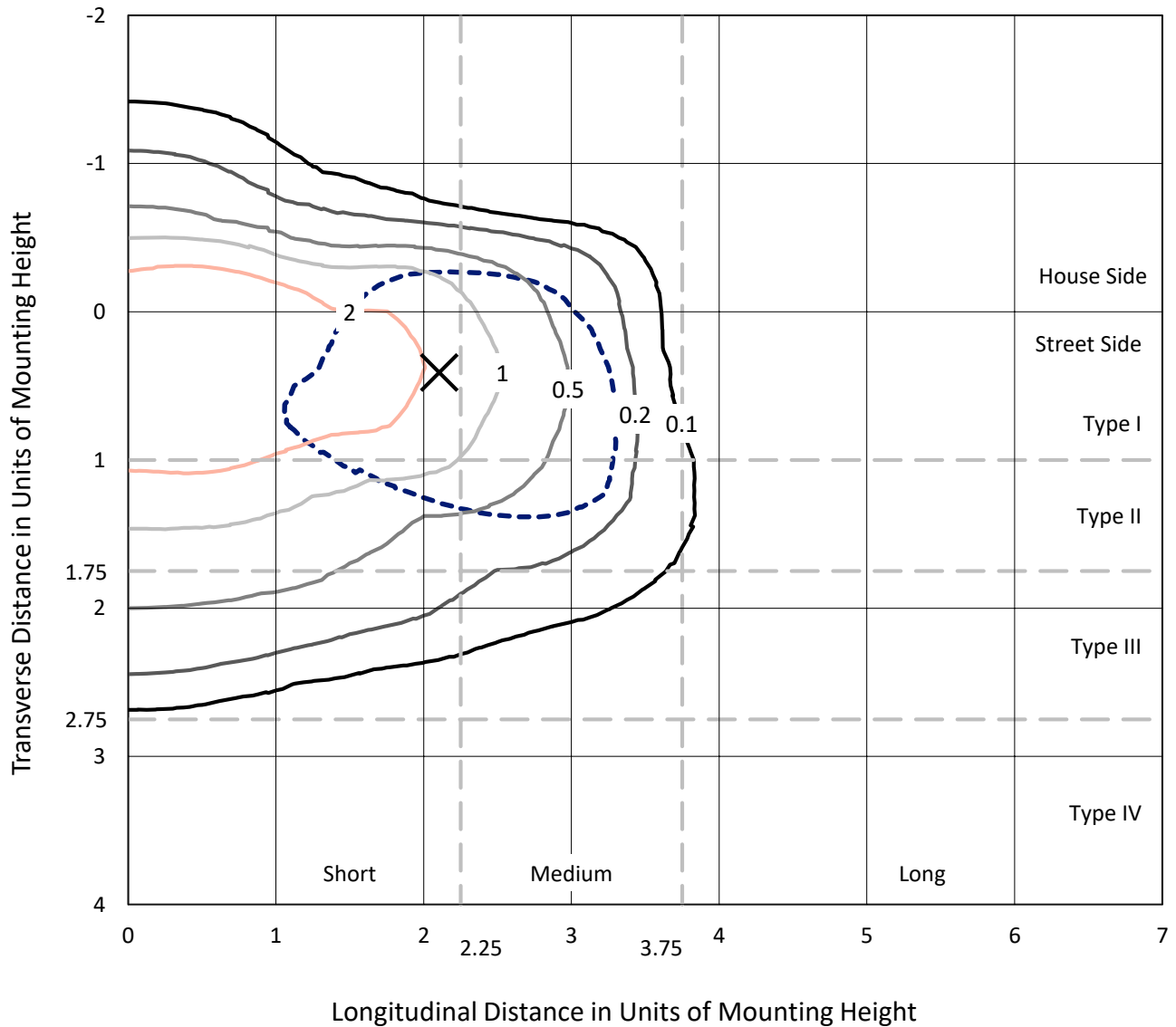
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

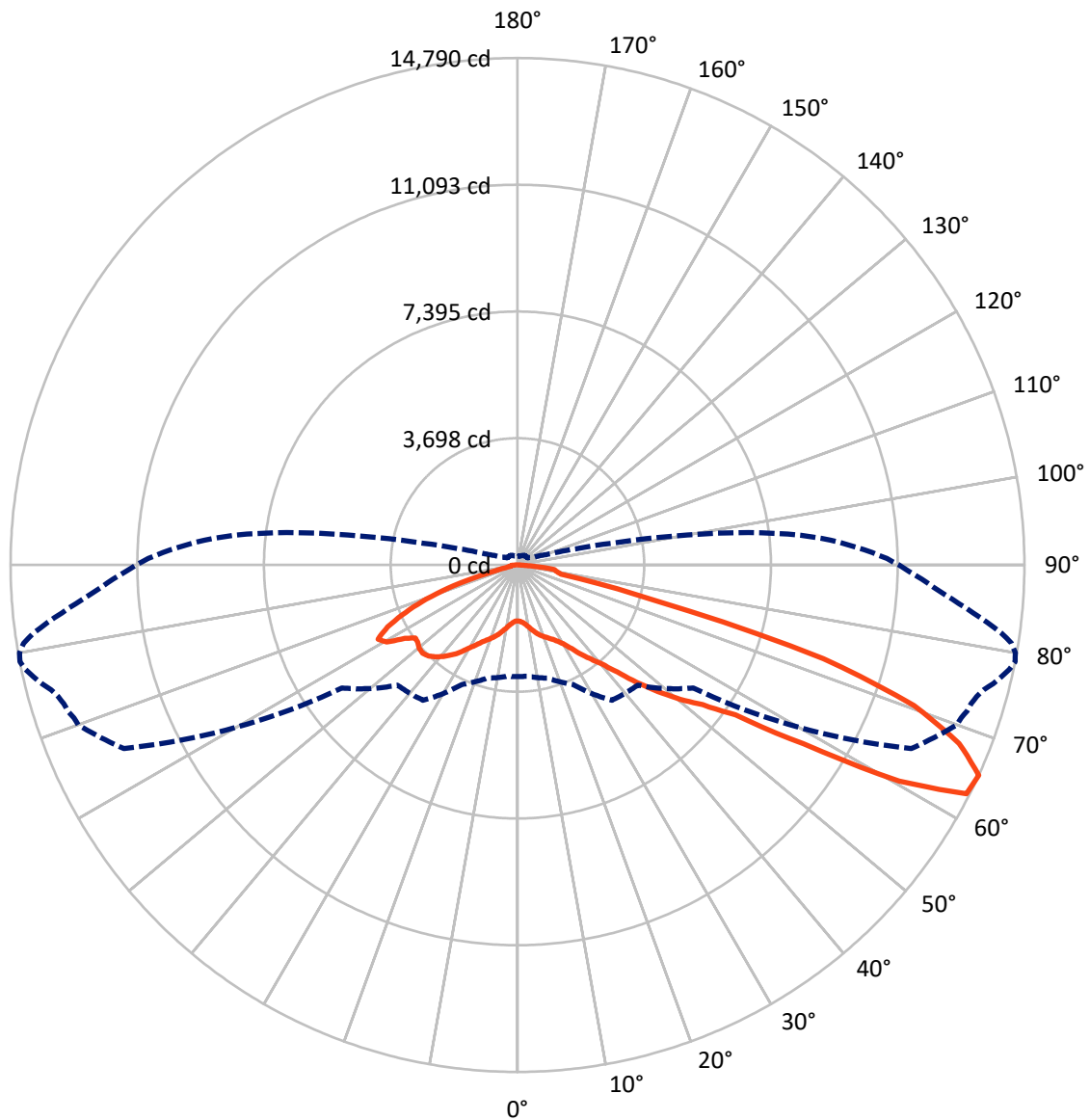
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - Semi-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	3409.8	0.0	3409.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11612.3	0.0	11612.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	15022.1	0.0	15022.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.1
10°-20°	527.5	3.5
20°-30°	909.4	6.1
30°-40°	1483.0	9.9
40°-50°	2475.7	16.5
50°-60°	3347.6	22.3
60°-70°	4158.8	27.7
70°-80°	1665.3	11.1
80°-90°	292.6	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°	15022.1	100.0
0°-180°	15022.1	100.0



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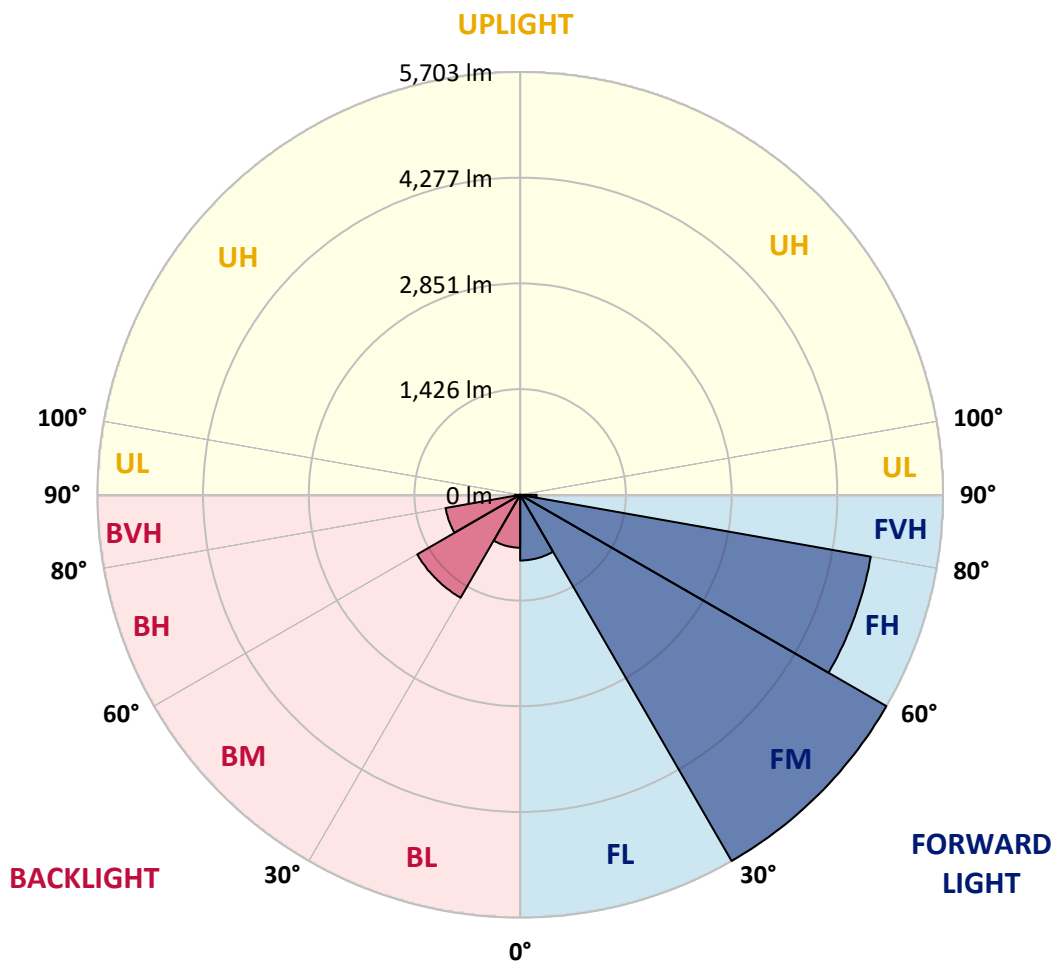
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.8	5.9			
FM (30°-60°)	5702.6	38.0			
FH (60°-80°)	4801.9	32.0			G2/5000
FVH (80°-90°)	221.9	1.5			G2/225
BL (0°-30°)	713.2	4.7	B2/1000		
BM (30°-60°)	1603.8	10.7	B2/2500		
BH (60°-80°)	1022.2	6.8	B3/2500		G3/2500
BVH (80°-90°)	70.7	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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1644.8	1643.8	1649.0	1653.1	1653.1	1655.1	1654.1	1647.9	1649.0	1651.0	1649.0
5°	1663.3	1659.2	1664.3	1670.5	1674.6	1679.7	1684.9	1685.9	1690.0	1690.0	1689.0
7.5°	1703.3	1700.3	1707.4	1709.5	1718.7	1726.9	1737.2	1744.4	1748.5	1750.5	1753.6
10°	1772.1	1770.0	1772.1	1776.2	1780.3	1789.5	1807.0	1822.4	1831.6	1831.6	1835.7
12.5°	1855.2	1847.0	1849.0	1840.8	1842.9	1862.4	1882.9	1908.6	1923.9	1926.0	1928.1
15°	1919.8	1915.7	1912.7	1901.4	1909.6	1935.2	1967.0	2004.0	2017.3	2028.6	2027.6
17.5°	1980.4	1975.3	1968.1	1952.7	1960.9	2001.9	2050.2	2091.2	2113.8	2115.8	2117.9
20°	2052.2	2046.1	2032.7	2000.9	1998.9	2056.3	2121.0	2165.1	2185.6	2194.8	2197.9
22.5°	2143.5	2135.3	2110.7	2049.1	2032.7	2100.4	2177.4	2231.8	2253.3	2262.6	2267.7
25°	2260.5	2244.1	2205.1	2108.6	2074.8	2145.6	2237.9	2303.6	2333.4	2342.6	2348.8
27.5°	2366.2	2353.9	2306.7	2192.8	2134.3	2206.1	2311.8	2396.0	2437.0	2448.3	2457.5
30°	2489.3	2471.9	2433.9	2312.8	2234.9	2298.5	2432.9	2539.6	2589.9	2590.9	2611.4
32.5°	2778.7	2767.4	2732.5	2599.1	2467.8	2471.9	2597.1	2743.8	2794.1	2802.3	2820.8
35°	3207.6	3203.5	3202.5	3128.6	3031.1	2930.6	2939.8	3051.6	3085.5	3098.8	3105.0
37.5°	3489.8	3525.7	3612.9	3666.3	3641.6	3663.2	3550.3	3413.9	3394.4	3380.0	3386.1
40°	3733.0	3764.8	3941.3	4187.5	4337.3	4443.0	4343.5	3924.9	3768.9	3723.7	3706.3
42.5°	3876.6	3912.5	4165.0	4559.0	4940.7	5191.1	5217.7	4635.9	4239.9	4234.7	4169.1
45°	3954.6	3990.5	4292.2	4822.7	5362.4	5813.9	6047.9	5511.2	4929.4	4886.3	4795.0
47.5°	3939.2	3973.1	4287.1	4920.2	5611.8	6227.4	6695.3	6395.7	5724.6	5621.0	5494.8
50°	3751.4	3776.1	4105.4	4761.1	5545.1	6399.8	7138.6	7207.4	6624.5	6484.0	6295.2
52.5°	3557.5	3601.6	3874.6	4479.0	5242.4	6293.1	7403.4	7946.2	7464.9	7368.5	7126.3
55°	3452.8	3487.7	3710.4	4226.5	4923.3	5928.8	7513.1	8642.9	8485.9	8446.9	8275.5
57.5°	3448.7	3482.6	3660.1	4073.6	4663.6	5549.2	7545.0	9719.3	10180.0	10190.3	10141.0
60°	3617.0	3651.9	3800.7	4147.5	4583.6	5223.9	7431.1	11246.1	12264.0	12354.3	12505.1
62.5°	3640.6	3657.0	3836.6	4304.5	4875.0	4980.7	6962.1	12517.5	13696.5	13779.6	13862.7
65°	3256.9	3255.8	3414.9	3845.8	4814.5	4956.1	6257.2	12673.4	13639.0	13689.3	13792.9
67.5°	2428.8	2408.3	2498.6	2892.6	3820.2	4962.2	5421.9	11496.5	12575.9	12671.4	12706.3
70°	1251.8	1283.7	1345.2	1586.4	2425.7	3994.6	4657.5	9699.8	11039.9	11075.8	11199.9
72.5°	514.1	500.7	542.8	667.0	1213.9	2640.2	3853.0	7654.7	9118.0	9093.3	9115.9
75°	286.3	290.4	302.7	347.8	590.0	1325.7	3310.2	5418.9	6200.8	5775.9	5647.7
77.5°	229.8	231.9	232.9	241.1	322.2	707.0	2540.6	3568.8	3118.3	2895.7	2810.5
80°	168.3	179.6	191.9	193.9	221.6	401.2	1393.5	3004.4	2632.0	2447.3	2295.4
82.5°	135.4	140.6	167.3	171.4	176.5	239.1	631.1	2821.8	2621.7	2432.9	2223.6
85°	81.1	90.3	136.5	137.5	139.6	145.7	348.9	1149.2	1429.4	1263.1	1156.4
87.5°	28.7	36.9	67.7	56.4	71.8	59.5	152.9	384.8	474.1	450.5	399.2
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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1647.9	1647.9	1650.0	1649.0	1649.0	1649.0	1649.0	1646.9	1646.9	1643.8	1645.9
5°	1689.0	1687.9	1689.0	1690.0	1689.0	1691.0	1690.0	1689.0	1690.0	1689.0	1690.0
7.5°	1754.6	1749.5	1756.7	1752.6	1751.6	1757.7	1754.6	1757.7	1758.7	1757.7	1756.7
10°	1837.8	1840.8	1840.8	1840.8	1838.8	1844.9	1846.0	1848.0	1849.0	1853.1	1853.1
12.5°	1933.2	1934.2	1938.3	1937.3	1939.3	1946.5	1951.7	1952.7	1953.7	1956.8	1952.7
15°	2035.8	2037.8	2037.8	2047.1	2044.0	2054.3	2057.3	2057.3	2058.4	2070.7	2071.7
17.5°	2127.1	2127.1	2135.3	2135.3	2143.5	2145.6	2154.8	2155.8	2160.0	2171.2	2172.3
20°	2204.1	2208.2	2213.3	2219.5	2222.5	2228.7	2234.9	2241.0	2246.1	2255.4	2256.4
22.5°	2276.9	2281.0	2289.2	2293.3	2300.5	2304.6	2309.8	2316.9	2325.2	2337.5	2340.5
25°	2361.1	2365.2	2374.4	2380.6	2388.8	2394.9	2404.2	2413.4	2418.5	2430.8	2440.1
27.5°	2467.8	2480.1	2492.4	2495.5	2501.6	2516.0	2528.3	2540.6	2551.9	2558.1	2569.4
30°	2623.8	2623.8	2649.4	2649.4	2660.7	2674.0	2682.2	2695.6	2716.1	2722.3	2736.6
32.5°	2833.1	2838.2	2847.4	2875.1	2895.7	2901.8	2908.0	2927.5	2939.8	2955.2	2972.6
35°	3131.7	3136.8	3141.9	3168.6	3192.2	3198.4	3204.5	3216.8	3237.4	3264.0	3255.8
37.5°	3399.5	3402.6	3419.0	3448.7	3462.1	3478.5	3483.6	3506.2	3517.5	3542.1	3543.1
40°	3721.7	3714.5	3723.7	3757.6	3778.1	3777.1	3793.5	3834.6	3842.8	3854.1	3882.8
42.5°	4171.1	4144.4	4173.2	4184.5	4215.2	4234.7	4267.6	4295.3	4314.8	4357.9	4378.4
45°	4751.9	4724.2	4747.8	4752.9	4816.5	4836.0	4885.3	4922.2	4964.3	5013.6	5027.9
47.5°	5413.7	5362.4	5333.7	5365.5	5441.4	5473.2	5521.5	5556.4	5600.5	5626.1	5617.9
50°	6180.2	6057.1	5999.6	5983.2	6037.6	6082.8	6157.7	6174.1	6194.6	6193.6	6194.6
52.5°	7035.0	6906.7	6786.7	6703.5	6695.3	6755.9	6774.3	6778.5	6772.3	6726.1	6697.4
55°	8151.4	8142.1	8015.9	7843.6	7832.3	7825.1	7717.3	7704.0	7679.4	7608.6	7511.1
57.5°	10176.9	10279.5	10196.4	10192.3	10102.0	10042.5	9844.5	9745.9	9642.3	9450.4	9297.5
60°	12518.5	12667.3	12749.4	12785.3	12961.8	12961.8	12799.6	12660.1	12491.8	12199.4	11914.1
62.5°	13928.4	14058.7	14179.8	14369.6	14594.3	14693.8	14702.0	14577.9	14365.5	14032.0	13628.7
65°	13839.1	13935.5	14082.3	14306.0	14491.7	14670.2	14790.3	14752.3	14590.2	14256.7	13817.5
67.5°	12828.4	12968.9	13158.8	13365.0	13537.4	13705.7	13899.6	13914.0	13870.9	13553.8	13156.7
70°	11268.7	11449.3	11569.3	11828.9	11906.9	12077.3	12272.2	12365.6	12295.8	12051.6	11818.7
72.5°	9154.9	9297.5	9318.1	9205.2	9244.2	9286.3	9333.5	9114.9	9030.8	8704.5	8554.6
75°	5551.2	5363.5	5205.4	5048.4	4579.5	4413.3	4157.8	3654.0	3596.5	3250.7	3010.6
77.5°	2640.2	2561.2	2418.5	2179.4	1861.4	1556.6	1291.9	1049.7	959.4	790.1	673.1
80°	2210.2	2115.8	1987.6	1810.0	1587.4	1365.7	1156.4	976.9	796.3	648.5	518.2
82.5°	2027.6	1863.4	1682.8	1529.9	1372.9	1222.1	1081.5	919.4	824.0	664.9	542.8
85°	1025.1	897.8	727.5	612.6	517.2	420.7	364.3	310.9	277.0	220.6	191.9
87.5°	343.7	281.2	209.3	177.5	160.1	137.5	126.2	120.1	117.0	103.6	92.3
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1645.9	1645.9	1645.9	1645.9	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1645.9
5°	1687.9	1687.9	1689.0	1692.0	1685.9	1687.9	1690.0	1686.9	1690.0	1686.9	1691.0
7.5°	1755.7	1758.7	1756.7	1760.8	1758.7	1764.9	1760.8	1757.7	1759.8	1759.8	1760.8
10°	1851.1	1855.2	1852.1	1854.2	1854.2	1858.3	1853.1	1854.2	1855.2	1853.1	1854.2
12.5°	1956.8	1958.8	1957.8	1964.0	1960.9	1964.0	1960.9	1965.0	1967.0	1969.1	1969.1
15°	2071.7	2073.8	2079.9	2078.9	2085.0	2083.0	2084.0	2078.9	2089.2	2083.0	2085.0
17.5°	2177.4	2176.4	2184.6	2187.7	2188.7	2189.7	2192.8	2188.7	2189.7	2192.8	2190.7
20°	2259.5	2266.7	2268.7	2276.9	2283.1	2285.1	2284.1	2287.2	2291.3	2287.2	2287.2
22.5°	2346.7	2357.0	2360.0	2365.2	2371.3	2372.4	2378.5	2381.6	2383.6	2382.6	2383.6
25°	2451.4	2458.5	2465.7	2476.0	2483.2	2484.2	2489.3	2493.4	2494.5	2493.4	2499.6
27.5°	2579.6	2588.9	2598.1	2610.4	2618.6	2620.7	2632.0	2632.0	2638.1	2641.2	2643.2
30°	2744.8	2747.9	2771.5	2783.8	2780.7	2795.1	2810.5	2809.5	2816.7	2818.7	2823.8
32.5°	2984.9	2984.9	3005.5	3020.9	3037.3	3032.1	3055.7	3051.6	3062.9	3069.1	3066.0
35°	3276.4	3286.6	3302.0	3311.2	3328.7	3337.9	3354.3	3363.6	3368.7	3367.7	3356.4
37.5°	3577.0	3593.4	3599.6	3622.2	3639.6	3655.0	3657.0	3646.8	3650.9	3630.4	3624.2
40°	3920.7	3944.3	3958.7	3992.6	3990.5	4010.0	4012.1	3982.3	3977.2	3950.5	3922.8
42.5°	4401.0	4433.8	4445.1	4470.7	4450.2	4459.5	4408.1	4395.8	4354.8	4311.7	4249.1
45°	5048.4	5032.0	5039.2	5032.0	4977.6	4937.6	4895.5	4835.0	4774.5	4691.4	4602.1
47.5°	5617.9	5626.1	5572.8	5538.9	5450.7	5394.2	5317.3	5211.6	5137.7	5025.9	4907.9
50°	6171.0	6079.7	6004.8	5926.8	5848.8	5745.2	5629.2	5535.8	5428.1	5288.5	5143.9
52.5°	6620.4	6502.4	6412.1	6301.3	6195.6	6080.7	5959.6	5824.2	5682.6	5543.0	5364.5
55°	7416.7	7245.3	7129.4	6935.4	6815.4	6654.3	6559.9	6384.4	6187.4	6002.7	5812.9
57.5°	9125.2	8868.6	8736.3	8626.5	8439.7	8175.0	8006.7	7718.4	7437.2	7240.2	6924.2
60°	11698.6	11438.0	11218.4	10958.8	10672.5	10313.4	10153.3	9813.7	9411.4	9086.2	8668.5
62.5°	13302.4	12942.3	12586.2	12221.9	11934.6	11653.5	11322.0	10979.3	10581.2	10138.9	9682.3
65°	13367.1	12935.1	12509.3	12137.8	11801.2	11435.9	11125.0	10777.2	10358.5	9902.9	9428.9
67.5°	12696.0	12212.7	11756.1	11348.7	10963.9	10625.3	10300.0	9972.7	9524.3	9142.6	8657.3
70°	11359.0	10917.8	10504.2	10040.4	9745.9	9365.3	9048.2	8703.4	8382.3	8025.2	7570.6
72.5°	8343.3	8010.8	7538.8	7341.8	7183.8	6780.5	6544.5	6515.8	6310.5	5882.7	5543.0
75°	3102.9	2641.2	2501.6	2584.8	2446.2	2492.4	2475.0	2376.5	2380.6	2307.7	2221.5
77.5°	607.5	564.4	530.5	539.7	501.8	485.3	520.2	510.0	491.5	496.6	488.4
80°	413.5	349.9	317.1	304.8	289.4	282.2	280.1	277.0	270.9	267.8	258.6
82.5°	407.4	302.7	239.1	205.2	192.9	186.8	181.6	180.6	178.5	177.5	180.6
85°	162.1	131.3	120.1	109.8	106.7	103.6	103.6	102.6	101.6	103.6	107.7
87.5°	79.0	66.7	60.5	55.4	53.4	52.3	52.3	53.4	54.4	58.5	66.7
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1643.8	1644.8	1642.8	1643.8	1642.8	1640.7	1639.7	1642.8	1641.8	1640.7	1640.7
5°	1685.9	1690.0	1687.9	1685.9	1685.9	1684.9	1684.9	1684.9	1683.8	1684.9	1681.8
7.5°	1758.7	1757.7	1757.7	1755.7	1753.6	1755.7	1754.6	1751.6	1752.6	1750.5	1747.5
10°	1852.1	1849.0	1854.2	1854.2	1850.1	1849.0	1847.0	1843.9	1843.9	1840.8	1840.8
12.5°	1962.9	1959.9	1967.0	1961.9	1955.8	1954.7	1948.6	1946.5	1949.6	1948.6	1946.5
15°	2075.8	2076.8	2079.9	2078.9	2071.7	2071.7	2063.5	2064.5	2058.4	2056.3	2051.2
17.5°	2185.6	2186.6	2183.6	2183.6	2178.4	2175.3	2166.1	2167.1	2163.0	2154.8	2148.7
20°	2284.1	2283.1	2275.9	2282.1	2271.8	2269.7	2261.5	2253.3	2255.4	2247.2	2234.9
22.5°	2380.6	2378.5	2376.5	2373.4	2368.3	2366.2	2357.0	2355.9	2345.7	2333.4	2323.1
25°	2492.4	2491.4	2488.3	2489.3	2479.1	2480.1	2463.7	2459.6	2453.4	2440.1	2431.9
27.5°	2637.1	2637.1	2628.9	2625.8	2622.7	2618.6	2604.3	2594.0	2578.6	2563.2	2546.8
30°	2814.6	2812.6	2810.5	2802.3	2791.0	2784.9	2759.2	2742.8	2722.3	2693.5	2668.9
32.5°	3068.1	3050.6	3036.2	3017.8	2999.3	2979.8	2939.8	2912.1	2879.3	2833.1	2794.1
35°	3350.2	3320.5	3305.1	3267.1	3232.2	3193.2	3145.0	3088.6	3043.4	2982.9	2919.3
37.5°	3583.2	3560.6	3519.5	3476.4	3427.2	3353.3	3298.9	3238.4	3159.4	3092.7	3015.7
40°	3870.5	3819.2	3760.7	3688.8	3621.1	3538.0	3463.1	3375.9	3279.4	3183.0	3082.4
42.5°	4172.1	4093.1	3996.7	3913.6	3811.0	3702.2	3604.7	3486.7	3363.6	3234.3	3099.9
45°	4480.0	4382.5	4254.2	4136.2	3993.6	3857.1	3717.6	3556.5	3388.2	3215.8	3046.5
47.5°	4762.2	4619.5	4473.8	4314.8	4150.6	3975.1	3777.1	3565.7	3344.1	3117.3	2905.9
50°	4983.8	4805.3	4621.6	4437.9	4236.8	4009.0	3759.7	3483.6	3210.7	2938.8	2695.6
52.5°	5179.8	4979.7	4753.9	4526.2	4277.8	3997.7	3685.8	3360.5	3028.0	2727.4	2454.4
55°	5559.4	5308.0	5010.5	4717.0	4403.0	4050.0	3661.1	3263.0	2880.3	2553.0	2262.6
57.5°	6590.7	6251.0	5790.3	5382.9	4984.8	4470.7	3922.8	3432.3	2944.9	2558.1	2234.9
60°	8215.0	7661.9	7134.5	6513.7	5869.3	5164.4	4429.7	3768.9	3174.8	2689.4	2300.5
62.5°	9157.0	8573.1	7894.9	7142.7	6307.5	5448.6	4605.2	3833.5	3182.0	2653.5	2222.5
65°	8902.5	8315.6	7569.6	6800.0	5911.4	5033.0	4195.7	3454.9	2822.8	2334.4	1921.9
67.5°	8147.3	7533.7	6832.8	5979.1	5129.5	4315.8	3552.4	2854.6	2295.4	1839.8	1475.5
70°	7048.3	6502.4	5827.3	5040.2	4216.3	3484.7	2841.3	2212.3	1739.2	1321.6	1034.3
72.5°	5231.1	4747.8	4326.1	3668.3	3065.0	2491.4	1967.0	1539.2	1131.8	855.8	658.8
75°	2195.9	2032.7	1964.0	1722.8	1498.1	1228.2	924.5	736.7	597.2	507.9	403.3
77.5°	532.5	532.5	500.7	468.9	431.0	389.9	344.8	307.8	289.4	272.9	259.6
80°	258.6	256.5	248.3	247.3	240.1	230.9	225.7	218.6	215.5	211.4	209.3
82.5°	181.6	180.6	177.5	181.6	180.6	184.7	186.8	187.8	187.8	188.8	189.8
85°	114.9	119.0	127.2	137.5	146.7	158.0	168.3	176.5	182.6	187.8	191.9
87.5°	72.9	83.1	89.3	104.7	120.1	137.5	157.0	165.2	172.4	173.4	167.3
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1640.7	1639.7	1641.8	1639.7	1639.7	1638.7	1635.6	1632.5	1629.5	1628.4	1625.4
5°	1680.8	1680.8	1682.8	1678.7	1679.7	1675.6	1666.4	1656.1	1646.9	1638.7	1629.5
7.5°	1748.5	1745.4	1746.4	1745.4	1743.4	1735.1	1714.6	1689.0	1664.3	1638.7	1618.2
10°	1838.8	1832.6	1832.6	1830.6	1827.5	1816.2	1773.1	1721.8	1670.5	1624.3	1590.5
12.5°	1939.3	1940.4	1932.2	1927.0	1921.9	1898.3	1833.7	1751.6	1670.5	1596.6	1542.2
15°	2044.0	2043.0	2033.7	2030.7	2019.4	1984.5	1887.0	1767.0	1651.0	1542.2	1461.2
17.5°	2138.4	2134.3	2125.1	2118.9	2106.6	2060.4	1922.9	1759.8	1599.7	1457.1	1355.5
20°	2224.6	2219.5	2211.3	2200.0	2187.7	2121.0	1936.3	1722.8	1518.6	1355.5	1252.9
22.5°	2313.9	2302.6	2293.3	2278.0	2264.6	2175.3	1927.0	1657.2	1426.3	1242.6	1132.8
25°	2413.4	2400.1	2380.6	2362.1	2341.6	2219.5	1901.4	1575.1	1315.5	1120.5	1009.7
27.5°	2521.1	2501.6	2476.0	2452.4	2419.6	2252.3	1857.3	1483.7	1194.4	999.4	884.5
30°	2635.0	2599.1	2567.3	2531.4	2489.3	2267.7	1793.6	1370.9	1061.0	876.3	761.4
32.5°	2745.9	2697.6	2650.4	2598.1	2540.6	2261.5	1703.3	1237.5	927.6	761.4	664.9
35°	2858.7	2789.0	2723.3	2652.5	2582.7	2230.8	1579.2	1089.7	801.4	665.9	596.2
37.5°	2935.7	2848.5	2761.2	2676.1	2591.9	2164.1	1414.0	924.5	687.5	597.2	546.9
40°	2974.7	2868.0	2761.2	2655.6	2551.9	2053.2	1221.1	773.7	606.4	545.9	510.0
42.5°	2963.4	2831.0	2698.7	2573.5	2446.2	1876.7	1011.7	649.5	550.0	505.9	474.1
45°	2870.0	2712.0	2561.2	2428.8	2269.7	1650.0	831.1	572.6	506.9	473.0	443.3
47.5°	2694.6	2518.1	2333.4	2183.6	2034.8	1387.3	691.6	524.3	468.9	441.2	411.5
50°	2470.9	2266.7	2082.0	1919.8	1774.1	1142.1	596.2	483.3	438.1	414.5	382.7
52.5°	2224.6	2005.0	1836.7	1666.4	1523.8	953.3	529.5	438.1	408.4	383.8	358.1
55°	2020.4	1817.2	1645.9	1474.5	1330.9	834.2	474.1	403.3	380.7	355.0	334.5
57.5°	1966.0	1734.1	1547.4	1385.2	1237.5	761.4	434.0	371.5	356.1	336.6	314.0
60°	1988.6	1733.1	1523.8	1346.3	1191.3	702.9	404.3	349.9	337.6	320.1	296.5
62.5°	1907.5	1637.7	1426.3	1237.5	1090.8	629.0	382.7	339.6	331.4	307.8	281.2
65°	1625.4	1378.1	1174.9	1011.7	885.5	529.5	365.3	348.9	340.7	299.6	270.9
67.5°	1237.5	1031.2	868.1	746.0	654.7	438.1	361.2	379.7	363.2	303.7	267.8
70°	855.8	699.8	595.1	521.3	463.8	369.4	374.5	413.5	389.9	317.1	285.3
72.5°	542.8	453.5	402.2	374.5	346.8	311.9	371.5	409.4	377.6	319.1	285.3
75°	347.8	310.9	293.5	283.2	275.0	271.9	327.3	336.6	303.7	277.0	265.8
77.5°	246.3	240.1	237.0	236.0	237.0	244.2	270.9	253.4	220.6	221.6	227.8
80°	208.3	208.3	206.2	207.3	209.3	212.4	216.5	186.8	169.3	182.6	203.2
82.5°	190.9	193.9	196.0	198.0	201.1	197.0	183.7	141.6	136.5	177.5	199.1
85°	193.9	193.9	195.0	197.0	198.0	177.5	152.9	106.7	104.7	199.1	187.8
87.5°	166.2	164.2	157.0	151.9	144.7	122.1	101.6	59.5	61.6	123.1	131.3
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):

	175°	180°
0°	1632.5	1632.5
2.5°	1624.3	1624.3
5°	1624.3	1624.3
7.5°	1611.0	1606.9
10°	1572.0	1566.9
12.5°	1512.5	1507.3
15°	1421.2	1415.0
17.5°	1307.3	1297.0
20°	1188.2	1173.9
22.5°	1069.2	1057.9
25°	947.1	936.8
27.5°	827.0	816.8
30°	716.2	712.1
32.5°	634.1	630.0
35°	573.6	571.5
37.5°	532.5	530.5
40°	496.6	494.6
42.5°	463.8	460.7
45°	431.0	432.0
47.5°	398.1	397.1
50°	369.4	369.4
52.5°	345.8	344.8
55°	324.2	323.2
57.5°	302.7	301.7
60°	284.2	281.2
62.5°	266.8	264.7
65°	255.5	254.5
67.5°	247.3	244.2
70°	245.2	237.0
72.5°	239.1	228.8
75°	224.7	219.6
77.5°	198.0	191.9
80°	152.9	141.6
82.5°	128.3	110.8
85°	94.4	87.2
87.5°	68.7	54.4
90°	0.0	0.0

(END OF REPORT)