

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: P144868

Luminaire Tested: **LDRL-SL2-E06-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144868
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-E06-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14827.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

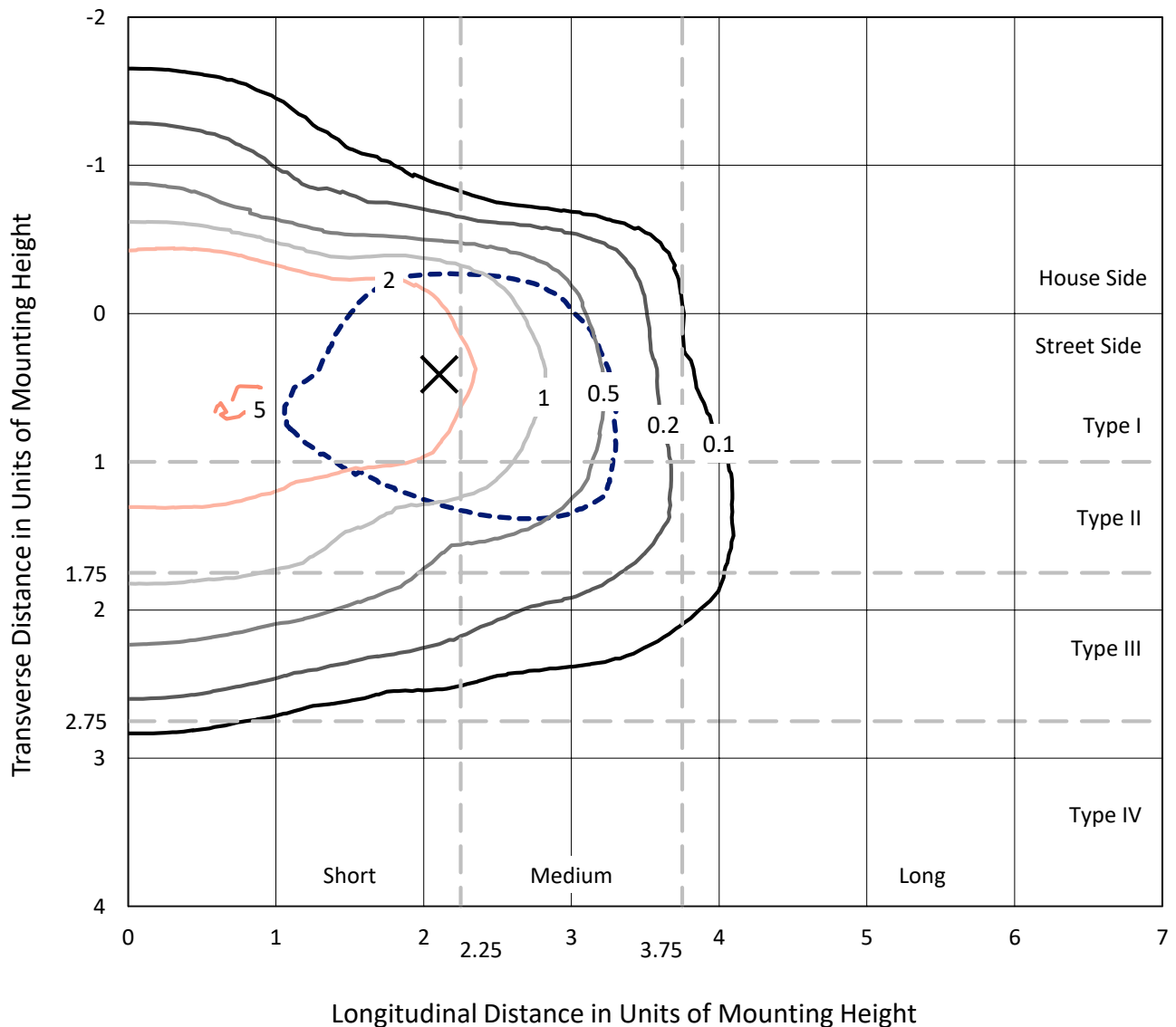
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

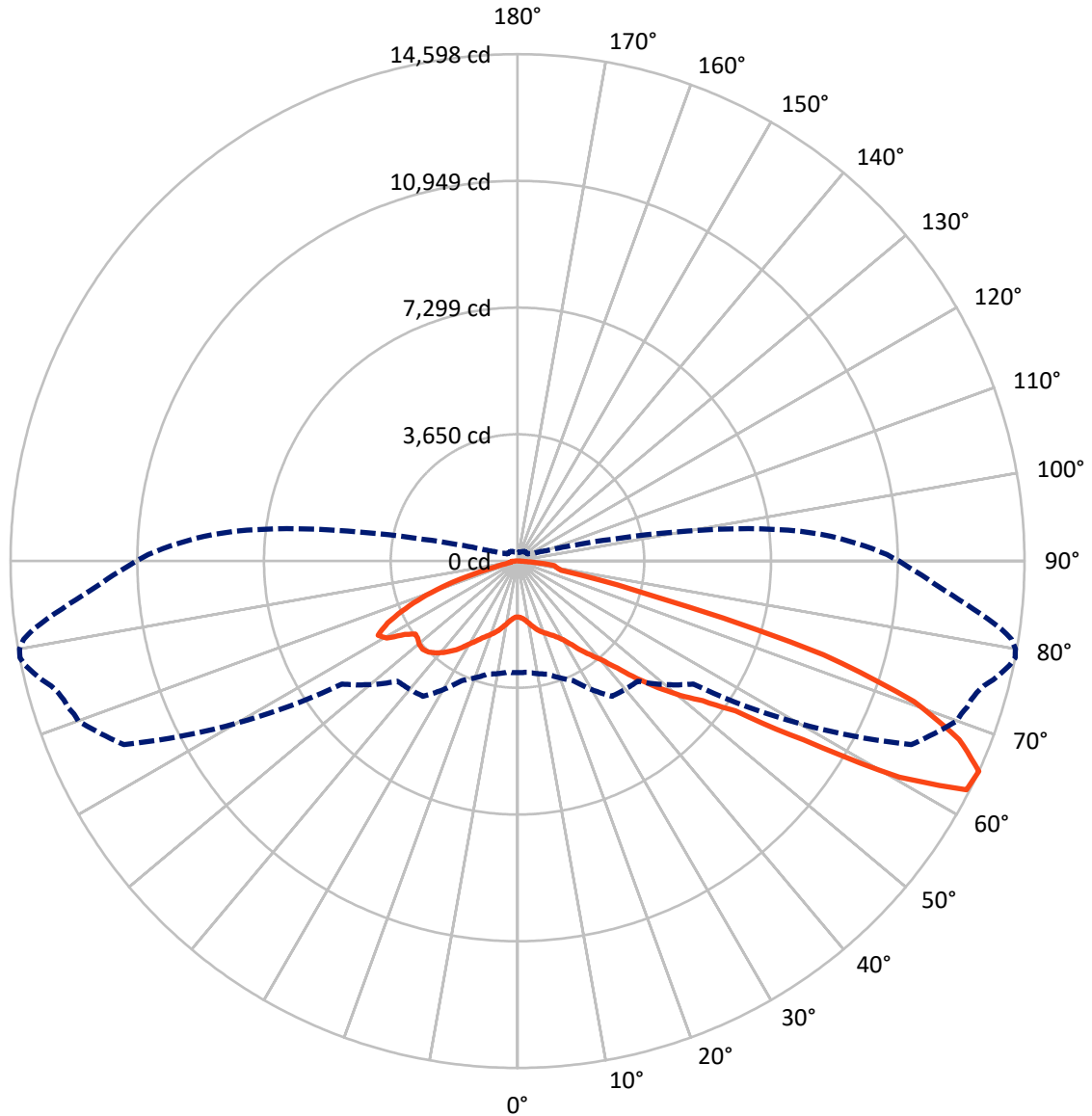


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - Semi-Cutoff

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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	3365.6	0.0	3365.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11461.5	0.0	11461.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	14827.1	0.0	14827.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.1
10°-20°	520.6	3.5
20°-30°	897.6	6.1
30°-40°	1463.7	9.9
40°-50°	2443.6	16.5
50°-60°	3304.2	22.3
60°-70°	4104.8	27.7
70°-80°	1643.7	11.1
80°-90°	288.8	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°	14827.1	100.0
0°-180°	14827.1	100.0



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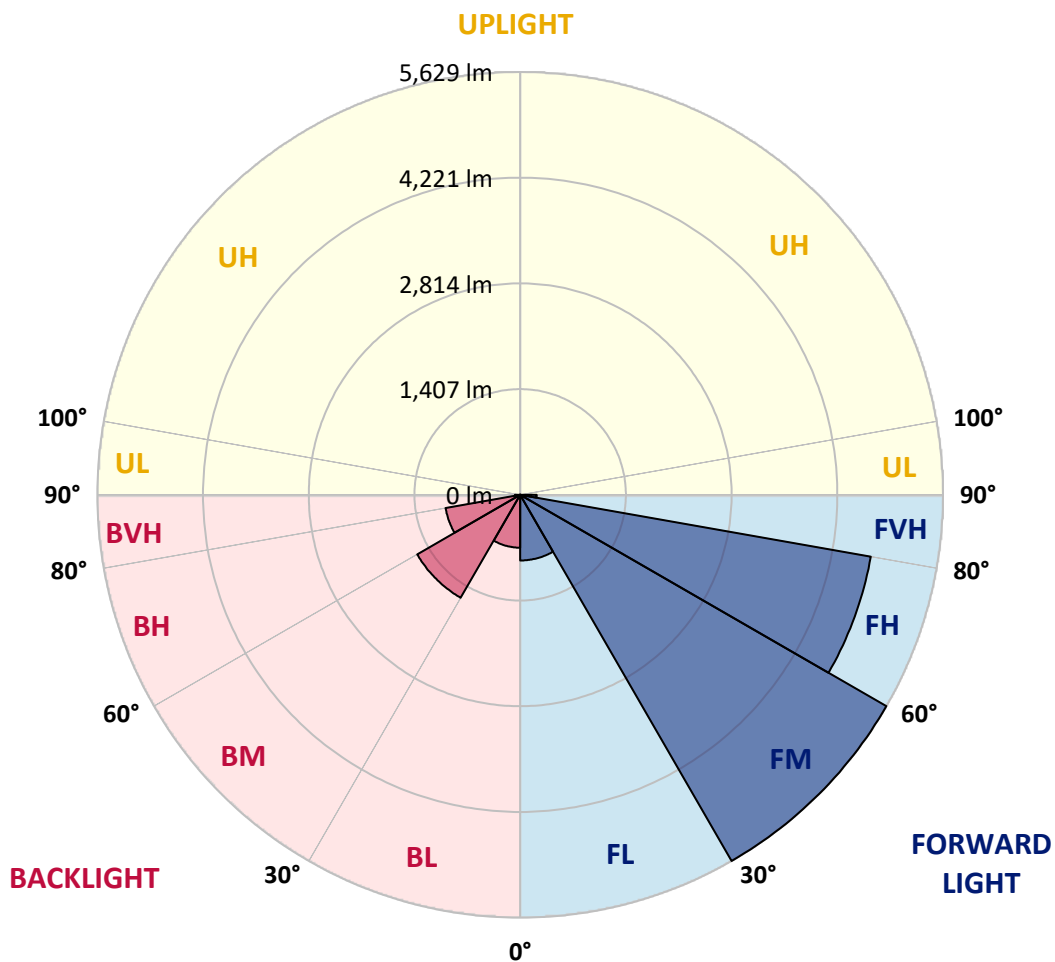
CATALOG NUMBER: LDRL-SL2-E06-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.3	5.9			
FM (30°-60°)	5628.6	38.0			
FH (60°-80°)	4739.6	32.0			G2/5000
FVH (80°-90°)	219.1	1.5			G2/225
BL (0°-30°)	703.9	4.7	B2/1000		
BM (30°-60°)	1583.0	10.7	B2/2500		
BH (60°-80°)	1008.9	6.8	B3/2500		G3/2500
BVH (80°-90°)	69.8	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°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1623.5	1622.5	1627.6	1631.6	1631.6	1633.6	1632.6	1626.5	1627.6	1629.6	1627.6
5°	1641.7	1637.7	1642.7	1648.8	1652.9	1657.9	1663.0	1664.0	1668.1	1668.1	1667.1
7.5°	1681.2	1678.2	1685.3	1687.3	1696.4	1704.5	1714.7	1721.7	1725.8	1727.8	1730.9
10°	1749.1	1747.1	1749.1	1753.1	1757.2	1766.3	1783.5	1798.7	1807.8	1807.8	1811.9
12.5°	1831.1	1823.0	1825.0	1816.9	1819.0	1838.2	1858.5	1883.8	1899.0	1901.0	1903.0
15°	1894.9	1890.9	1887.8	1876.7	1884.8	1910.1	1941.5	1978.0	1991.1	2002.3	2001.3
17.5°	1954.7	1949.6	1942.5	1927.3	1935.4	1976.0	2023.6	2064.1	2086.3	2088.4	2090.4
20°	2025.6	2019.5	2006.3	1974.9	1972.9	2029.6	2093.4	2137.0	2157.2	2166.4	2169.4
22.5°	2115.7	2107.6	2083.3	2022.5	2006.3	2073.2	2149.1	2202.8	2224.1	2233.2	2238.3
25°	2231.2	2215.0	2176.5	2081.3	2047.9	2117.7	2208.9	2273.7	2303.1	2312.2	2318.3
27.5°	2335.5	2323.3	2276.7	2164.3	2106.6	2177.5	2281.8	2364.9	2405.4	2416.5	2425.6
30°	2457.0	2439.8	2402.3	2282.8	2205.9	2268.6	2401.3	2506.7	2556.3	2557.3	2577.5
32.5°	2742.6	2731.5	2697.1	2565.4	2435.8	2439.8	2563.4	2708.2	2757.8	2765.9	2784.2
35°	3166.0	3161.9	3160.9	3088.0	2991.8	2892.5	2901.6	3012.0	3045.5	3058.6	3064.7
37.5°	3444.5	3479.9	3566.0	3618.7	3594.4	3615.7	3504.3	3369.5	3350.3	3336.1	3342.2
40°	3684.5	3715.9	3890.1	4133.2	4281.1	4385.4	4287.1	3873.9	3720.0	3675.4	3658.2
42.5°	3826.3	3861.8	4110.9	4499.8	4876.6	5123.7	5150.0	4575.8	4184.8	4179.8	4115.0
45°	3903.3	3938.7	4236.5	4760.1	5292.8	5738.5	5969.4	5439.7	4865.4	4822.9	4732.8
47.5°	3888.1	3921.5	4231.4	4856.3	5538.9	6146.6	6608.4	6312.7	5650.4	5548.1	5423.5
50°	3702.8	3727.1	4052.2	4699.3	5473.1	6316.8	7046.0	7113.8	6538.6	6399.8	6213.5
52.5°	3511.3	3554.9	3824.3	4420.8	5174.3	6211.4	7307.3	7843.0	7368.0	7272.8	7033.8
55°	3408.0	3442.5	3662.2	4171.7	4859.4	5851.9	7415.6	8530.7	8375.8	8337.3	8168.1
57.5°	3404.0	3437.4	3612.6	4020.8	4603.1	5477.2	7447.0	9593.1	10047.9	10058.0	10009.4
60°	3570.1	3604.5	3751.4	4093.7	4524.1	5156.1	7334.6	11100.2	12104.9	12194.0	12342.9
62.5°	3593.4	3609.6	3786.8	4248.7	4811.8	4916.1	6871.8	12355.0	13518.7	13600.7	13682.8
65°	3214.6	3213.6	3370.6	3795.9	4752.0	4891.8	6176.0	12509.0	13462.0	13511.6	13613.9
67.5°	2397.3	2377.0	2466.1	2855.1	3770.6	4897.8	5351.6	11347.3	12412.7	12506.9	12541.4
70°	1235.6	1267.0	1327.8	1565.8	2394.2	3942.8	4597.0	9573.9	10896.6	10932.0	11054.6
72.5°	507.4	494.2	535.8	658.3	1198.1	2605.9	3803.0	7555.4	8999.6	8975.3	8997.6
75°	282.6	286.6	298.8	343.3	582.4	1308.5	3267.3	5348.5	6120.3	5701.0	5574.4
77.5°	226.9	228.9	229.9	238.0	318.0	697.8	2507.7	3522.5	3077.9	2858.1	2774.0
80°	166.1	177.2	189.4	191.4	218.8	396.0	1375.4	2965.4	2597.8	2415.5	2265.6
82.5°	133.7	138.8	165.1	169.1	174.2	236.0	622.9	2785.2	2587.7	2401.3	2194.7
85°	80.0	89.1	134.7	135.7	137.7	143.8	344.3	1134.3	1410.8	1246.7	1141.4
87.5°	28.4	36.5	66.8	55.7	70.9	58.7	150.9	379.8	467.9	444.6	394.0
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1626.5	1626.5	1628.6	1627.6	1627.6	1627.6	1627.6	1625.5	1625.5	1622.5	1624.5
5°	1667.1	1666.0	1667.1	1668.1	1667.1	1669.1	1668.1	1667.1	1668.1	1667.1	1668.1
7.5°	1731.9	1726.8	1733.9	1729.8	1728.8	1734.9	1731.9	1734.9	1735.9	1734.9	1733.9
10°	1813.9	1816.9	1816.9	1816.9	1814.9	1821.0	1822.0	1824.0	1825.0	1829.1	1829.1
12.5°	1908.1	1909.1	1913.2	1912.1	1914.2	1921.3	1926.3	1927.3	1928.4	1931.4	1927.3
15°	2009.4	2011.4	2011.4	2020.5	2017.5	2027.6	2030.6	2030.6	2031.7	2043.8	2044.8
17.5°	2099.5	2099.5	2107.6	2107.6	2115.7	2117.7	2126.9	2127.9	2131.9	2143.1	2144.1
20°	2175.5	2179.5	2184.6	2190.7	2193.7	2199.8	2205.9	2211.9	2217.0	2226.1	2227.1
22.5°	2247.4	2251.4	2259.5	2263.6	2270.7	2274.7	2279.8	2286.9	2295.0	2307.1	2310.2
25°	2330.4	2334.5	2343.6	2349.7	2357.8	2363.8	2373.0	2382.1	2387.1	2399.3	2408.4
27.5°	2435.8	2447.9	2460.1	2463.1	2469.2	2483.4	2495.5	2507.7	2518.8	2524.9	2536.0
30°	2589.7	2589.7	2615.0	2615.0	2626.2	2639.3	2647.4	2660.6	2680.9	2686.9	2701.1
32.5°	2796.3	2801.4	2810.5	2837.8	2858.1	2864.2	2870.2	2889.5	2901.6	2916.8	2934.1
35°	3091.0	3096.1	3101.2	3127.5	3150.8	3156.9	3162.9	3175.1	3195.3	3221.7	3213.6
37.5°	3355.4	3358.4	3374.6	3404.0	3417.2	3433.4	3438.4	3460.7	3471.8	3496.1	3497.2
40°	3673.4	3666.3	3675.4	3708.8	3729.1	3728.1	3744.3	3784.8	3792.9	3804.0	3832.4
42.5°	4117.0	4090.7	4119.0	4130.2	4160.5	4179.8	4212.2	4239.5	4258.8	4301.3	4321.6
45°	4690.2	4662.9	4686.2	4691.2	4754.0	4773.3	4821.9	4858.3	4899.9	4948.5	4962.7
47.5°	5343.5	5292.8	5264.5	5295.9	5370.8	5402.2	5449.8	5484.3	5527.8	5553.1	5545.0
50°	6100.0	5978.5	5921.8	5905.6	5959.3	6003.8	6077.7	6094.0	6114.2	6113.2	6114.2
52.5°	6943.7	6817.1	6698.6	6616.6	6608.4	6668.2	6686.4	6690.5	6684.4	6638.8	6610.5
55°	8045.6	8036.5	7911.9	7741.8	7730.6	7723.5	7617.2	7604.0	7579.7	7509.8	7413.6
57.5°	10044.8	10146.1	10064.1	10060.0	9970.9	9912.2	9716.7	9619.5	9517.2	9327.8	9176.9
60°	12356.0	12502.9	12583.9	12619.4	12793.6	12793.6	12633.5	12495.8	12329.7	12041.0	11759.5
62.5°	13747.6	13876.2	13995.7	14183.1	14404.9	14503.1	14511.2	14388.7	14179.0	13849.9	13451.9
65°	13659.5	13754.7	13899.5	14120.3	14303.6	14479.8	14598.3	14560.9	14400.8	14071.7	13638.2
67.5°	12661.9	12800.6	12988.0	13191.6	13361.7	13527.8	13719.2	13733.4	13690.9	13377.9	12986.0
70°	11122.5	11300.7	11419.2	11675.4	11752.4	11920.5	12113.0	12205.1	12136.3	11895.2	11665.3
72.5°	9036.1	9176.9	9197.1	9085.7	9124.2	9165.7	9212.3	8996.6	8913.6	8591.5	8443.6
75°	5479.2	5293.8	5137.9	4982.9	4520.1	4356.0	4103.8	3606.5	3549.8	3208.5	2971.5
77.5°	2605.9	2527.9	2387.1	2151.2	1837.2	1536.4	1275.1	1036.1	947.0	779.8	664.4
80°	2181.5	2088.4	1961.8	1786.6	1566.8	1348.0	1141.4	964.2	785.9	640.1	511.5
82.5°	2001.3	1839.2	1661.0	1510.1	1355.1	1206.2	1067.5	907.5	813.3	656.3	535.8
85°	1011.8	886.2	718.1	604.6	510.4	415.2	359.5	306.9	273.5	217.7	189.4
87.5°	339.3	277.5	206.6	175.2	158.0	135.7	124.6	118.5	115.5	102.3	91.2
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1624.5	1624.5	1624.5	1624.5	1623.5	1623.5	1623.5	1623.5	1623.5	1623.5	1624.5
5°	1666.0	1666.0	1667.1	1670.1	1664.0	1666.0	1668.1	1665.0	1668.1	1665.0	1669.1
7.5°	1732.9	1735.9	1733.9	1737.9	1735.9	1742.0	1737.9	1734.9	1736.9	1736.9	1737.9
10°	1827.1	1831.1	1828.1	1830.1	1830.1	1834.2	1829.1	1830.1	1831.1	1829.1	1830.1
12.5°	1931.4	1933.4	1932.4	1938.5	1935.4	1938.5	1935.4	1939.5	1941.5	1943.5	1943.5
15°	2044.8	2046.8	2052.9	2051.9	2058.0	2056.0	2057.0	2051.9	2062.0	2056.0	2058.0
17.5°	2149.1	2148.1	2156.2	2159.3	2160.3	2161.3	2164.3	2160.3	2161.3	2164.3	2162.3
20°	2230.2	2237.3	2239.3	2247.4	2253.5	2255.5	2254.5	2257.5	2261.6	2257.5	2257.5
22.5°	2316.2	2326.4	2329.4	2334.5	2340.6	2341.6	2347.6	2350.7	2352.7	2351.7	2352.7
25°	2419.6	2426.6	2433.7	2443.9	2450.9	2452.0	2457.0	2461.1	2462.1	2461.1	2467.2
27.5°	2546.2	2555.3	2564.4	2576.5	2584.6	2586.7	2597.8	2597.8	2603.9	2606.9	2608.9
30°	2709.2	2712.2	2735.5	2747.7	2744.7	2758.8	2774.0	2773.0	2780.1	2782.1	2787.2
32.5°	2946.2	2946.2	2966.5	2981.7	2997.9	2992.8	3016.1	3012.0	3023.2	3029.3	3026.2
35°	3233.8	3244.0	3259.2	3268.3	3285.5	3294.6	3310.8	3319.9	3325.0	3324.0	3312.8
37.5°	3530.6	3546.8	3552.9	3575.1	3592.4	3607.6	3609.6	3599.5	3603.5	3583.2	3577.2
40°	3869.9	3893.2	3907.3	3940.8	3938.7	3958.0	3960.0	3930.6	3925.6	3899.2	3871.9
42.5°	4343.9	4376.3	4387.4	4412.7	4392.5	4401.6	4350.9	4338.8	4298.3	4255.7	4194.0
45°	4982.9	4966.7	4973.8	4966.7	4913.0	4873.5	4832.0	4772.3	4712.5	4630.5	4542.4
47.5°	5545.0	5553.1	5500.5	5467.0	5379.9	5324.2	5248.3	5144.0	5071.0	4960.6	4844.2
50°	6090.9	6000.8	5926.8	5849.9	5772.9	5670.6	5556.2	5464.0	5357.7	5219.9	5077.1
52.5°	6534.5	6418.0	6328.9	6219.5	6115.2	6001.8	5882.3	5748.6	5608.8	5471.1	5294.9
55°	7320.4	7151.3	7036.9	6845.4	6726.9	6567.9	6474.8	6301.6	6107.1	5924.8	5737.5
57.5°	9006.7	8753.5	8622.9	8514.5	8330.2	8068.9	7902.8	7618.2	7340.7	7146.2	6834.3
60°	11546.8	11289.6	11072.8	10816.6	10534.0	10179.5	10021.5	9686.3	9289.3	8968.2	8556.0
62.5°	13129.8	12774.3	12422.9	12063.3	11779.8	11502.2	11175.1	10836.8	10443.9	10007.4	9556.7
65°	13193.6	12767.2	12346.9	11980.3	11648.1	11287.5	10980.7	10637.3	10224.1	9774.4	9306.5
67.5°	12531.2	12054.2	11603.5	11201.4	10821.7	10487.4	10166.4	9843.3	9400.7	9024.0	8544.9
70°	11211.6	10776.1	10367.9	9910.1	9619.5	9243.7	8930.8	8590.5	8273.5	7921.0	7472.4
72.5°	8235.0	7906.8	7441.0	7246.5	7090.5	6692.5	6459.6	6431.2	6228.7	5806.3	5471.1
75°	3062.7	2606.9	2469.2	2551.2	2414.5	2460.1	2442.8	2345.6	2349.7	2277.8	2192.7
77.5°	599.6	557.0	523.6	532.7	495.3	479.0	513.5	503.4	485.1	490.2	482.1
80°	408.2	345.4	313.0	300.8	285.6	278.5	276.5	273.5	267.4	264.3	255.2
82.5°	402.1	298.8	236.0	202.6	190.4	184.3	179.3	178.3	176.2	175.2	178.3
85°	160.0	129.6	118.5	108.4	105.3	102.3	102.3	101.3	100.3	102.3	106.3
87.5°	78.0	65.8	59.8	54.7	52.7	51.7	51.7	52.7	53.7	57.7	65.8
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°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1622.5	1623.5	1621.5	1622.5	1621.5	1619.4	1618.4	1621.5	1620.5	1619.4	1619.4
5°	1664.0	1668.1	1666.0	1664.0	1664.0	1663.0	1663.0	1663.0	1662.0	1663.0	1660.0
7.5°	1735.9	1734.9	1734.9	1732.9	1730.9	1732.9	1731.9	1728.8	1729.8	1727.8	1724.8
10°	1828.1	1825.0	1830.1	1830.1	1826.1	1825.0	1823.0	1820.0	1820.0	1816.9	1816.9
12.5°	1937.5	1934.4	1941.5	1936.5	1930.4	1929.4	1923.3	1921.3	1924.3	1923.3	1921.3
15°	2048.9	2049.9	2052.9	2051.9	2044.8	2044.8	2036.7	2037.7	2031.7	2029.6	2024.6
17.5°	2157.2	2158.3	2155.2	2155.2	2150.2	2147.1	2138.0	2139.0	2135.0	2126.9	2120.8
20°	2254.5	2253.5	2246.4	2252.4	2242.3	2240.3	2232.2	2224.1	2226.1	2218.0	2205.9
22.5°	2349.7	2347.6	2345.6	2342.6	2337.5	2335.5	2326.4	2325.4	2315.2	2303.1	2293.0
25°	2460.1	2459.1	2456.0	2457.0	2446.9	2447.9	2431.7	2427.7	2421.6	2408.4	2400.3
27.5°	2602.9	2602.9	2594.8	2591.7	2588.7	2584.6	2570.5	2560.3	2545.1	2529.9	2513.7
30°	2778.1	2776.1	2774.0	2765.9	2754.8	2748.7	2723.4	2707.2	2686.9	2658.6	2634.3
32.5°	3028.2	3011.0	2996.8	2978.6	2960.4	2941.1	2901.6	2874.3	2841.9	2796.3	2757.8
35°	3306.8	3277.4	3262.2	3224.7	3190.3	3151.8	3104.2	3048.5	3003.9	2944.2	2881.4
37.5°	3536.7	3514.4	3473.9	3431.3	3382.7	3309.8	3256.1	3196.4	3118.4	3052.5	2976.6
40°	3820.2	3769.6	3711.9	3641.0	3574.1	3492.1	3418.2	3332.1	3236.9	3141.7	3042.4
42.5°	4118.0	4040.0	3944.8	3862.8	3761.5	3654.1	3557.9	3441.5	3319.9	3192.3	3059.6
45°	4421.8	4325.6	4199.0	4082.6	3941.8	3807.1	3669.3	3510.3	3344.2	3174.1	3007.0
47.5°	4700.4	4559.6	4415.8	4258.8	4096.7	3923.5	3728.1	3519.4	3300.7	3076.9	2868.2
50°	4919.1	4742.9	4561.6	4380.3	4181.8	3957.0	3710.9	3438.4	3169.0	2900.6	2660.6
52.5°	5112.6	4915.1	4692.3	4467.4	4222.3	3945.8	3637.9	3316.9	2988.7	2692.0	2422.6
55°	5487.3	5239.2	4945.4	4655.8	4345.9	3997.5	3613.6	3220.7	2842.9	2519.8	2233.2
57.5°	6505.1	6169.9	5715.2	5313.1	4920.1	4412.7	3871.9	3387.8	2906.7	2524.9	2205.9
60°	8108.4	7562.5	7041.9	6429.2	5793.2	5097.4	4372.2	3720.0	3133.6	2654.5	2270.7
62.5°	9038.1	8461.9	7792.4	7050.0	6225.6	5377.9	4545.4	3783.8	3140.7	2619.1	2193.7
65°	8787.0	8207.6	7471.3	6711.8	5834.7	4967.7	4141.3	3410.1	2786.2	2304.1	1897.0
67.5°	8041.5	7435.9	6744.2	5901.5	5062.9	4259.8	3506.3	2817.6	2265.6	1815.9	1456.4
70°	6956.8	6418.0	5751.6	4974.8	4161.6	3439.4	2804.4	2183.6	1716.7	1304.5	1020.9
72.5°	5163.2	4686.2	4269.9	3620.7	3025.2	2459.1	1941.5	1519.2	1117.1	844.7	650.2
75°	2167.4	2006.3	1938.5	1700.5	1478.7	1212.3	912.5	727.2	589.4	501.3	398.0
77.5°	525.6	525.6	494.2	462.8	425.4	384.9	340.3	303.8	285.6	269.4	256.2
80°	255.2	253.2	245.1	244.1	237.0	227.9	222.8	215.7	212.7	208.6	206.6
82.5°	179.3	178.3	175.2	179.3	178.3	182.3	184.3	185.3	185.3	186.4	187.4
85°	113.4	117.5	125.6	135.7	144.8	156.0	166.1	174.2	180.3	185.3	189.4
87.5°	71.9	82.0	88.1	103.3	118.5	135.7	155.0	163.1	170.1	171.2	165.1
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1619.4	1618.4	1620.5	1618.4	1618.4	1617.4	1614.4	1611.3	1608.3	1607.3	1604.3
5°	1658.9	1658.9	1661.0	1656.9	1657.9	1653.9	1644.8	1634.6	1625.5	1617.4	1608.3
7.5°	1725.8	1722.8	1723.8	1722.8	1720.7	1712.6	1692.4	1667.1	1642.7	1617.4	1597.2
10°	1814.9	1808.8	1808.8	1806.8	1803.8	1792.6	1750.1	1699.5	1648.8	1603.2	1569.8
12.5°	1914.2	1915.2	1907.1	1902.0	1897.0	1873.7	1809.9	1728.8	1648.8	1575.9	1522.2
15°	2017.5	2016.5	2007.3	2004.3	1993.2	1958.7	1862.5	1744.0	1629.6	1522.2	1442.2
17.5°	2110.7	2106.6	2097.5	2091.4	2079.3	2033.7	1898.0	1736.9	1578.9	1438.2	1337.9
20°	2195.7	2190.7	2182.6	2171.4	2159.3	2093.4	1911.1	1700.5	1498.9	1337.9	1236.6
22.5°	2283.8	2272.7	2263.6	2248.4	2235.2	2147.1	1902.0	1635.7	1407.8	1226.5	1118.1
25°	2382.1	2368.9	2349.7	2331.4	2311.2	2190.7	1876.7	1554.6	1298.4	1106.0	996.6
27.5°	2488.4	2469.2	2443.9	2420.6	2388.2	2223.1	1833.1	1464.5	1178.9	986.5	873.0
30°	2600.8	2565.4	2534.0	2498.6	2457.0	2238.3	1770.4	1353.1	1047.2	864.9	751.5
32.5°	2710.2	2662.6	2616.0	2564.4	2507.7	2232.2	1681.2	1221.4	915.6	751.5	656.3
35°	2821.6	2752.8	2687.9	2618.1	2549.2	2201.8	1558.7	1075.6	791.0	657.3	588.4
37.5°	2897.6	2811.5	2725.4	2641.4	2558.3	2136.0	1395.6	912.5	678.6	589.4	539.8
40°	2936.1	2830.7	2725.4	2621.1	2518.8	2026.6	1205.2	763.6	598.6	538.8	503.4
42.5°	2924.9	2794.3	2663.6	2540.1	2414.5	1852.4	998.6	641.1	542.9	499.3	467.9
45°	2832.8	2676.8	2527.9	2397.3	2240.3	1628.6	820.4	565.1	500.3	466.9	437.5
47.5°	2659.6	2485.4	2303.1	2155.2	2008.4	1369.3	682.6	517.5	462.8	435.5	406.1
50°	2438.8	2237.3	2054.9	1894.9	1751.1	1127.2	588.4	477.0	432.5	409.2	377.8
52.5°	2195.7	1979.0	1812.9	1644.8	1504.0	940.9	522.6	432.5	403.1	378.8	353.5
55°	1994.2	1793.6	1624.5	1455.4	1313.6	823.4	467.9	398.0	375.7	350.4	330.2
57.5°	1940.5	1711.6	1527.3	1367.3	1221.4	751.5	428.4	366.6	351.4	332.2	309.9
60°	1962.8	1710.6	1504.0	1328.8	1175.8	693.8	399.0	345.4	333.2	316.0	292.7
62.5°	1882.8	1616.4	1407.8	1221.4	1076.6	620.8	377.8	335.2	327.1	303.8	277.5
65°	1604.3	1360.2	1159.6	998.6	874.0	522.6	360.6	344.3	336.2	295.7	267.4
67.5°	1221.4	1017.9	856.8	736.3	646.2	432.5	356.5	374.7	358.5	299.8	264.3
70°	844.7	690.7	587.4	514.5	457.8	364.6	369.7	408.2	384.9	313.0	281.6
72.5°	535.8	447.7	397.0	369.7	342.3	307.9	366.6	404.1	372.7	315.0	281.6
75°	343.3	306.9	289.7	279.5	271.4	268.4	323.1	332.2	299.8	273.5	262.3
77.5°	243.1	237.0	234.0	232.9	234.0	241.0	267.4	250.2	217.7	218.8	224.8
80°	205.6	205.6	203.6	204.6	206.6	209.6	213.7	184.3	167.1	180.3	200.5
82.5°	188.4	191.4	193.4	195.5	198.5	194.5	181.3	139.8	134.7	175.2	196.5
85°	191.4	191.4	192.4	194.5	195.5	175.2	150.9	105.3	103.3	196.5	185.3
87.5°	164.1	162.0	155.0	149.9	142.8	120.5	100.3	58.7	60.8	121.5	129.6
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):

	175°	180°
0°	1611.3	1611.3
2.5°	1603.2	1603.2
5°	1603.2	1603.2
7.5°	1590.1	1586.0
10°	1551.6	1546.5
12.5°	1492.9	1487.8
15°	1402.7	1396.6
17.5°	1290.3	1280.2
20°	1172.8	1158.6
22.5°	1055.3	1044.2
25°	934.8	924.7
27.5°	816.3	806.2
30°	706.9	702.9
32.5°	625.9	621.9
35°	566.1	564.1
37.5°	525.6	523.6
40°	490.2	488.2
42.5°	457.8	454.7
45°	425.4	426.4
47.5°	393.0	391.9
50°	364.6	364.6
52.5°	341.3	340.3
55°	320.0	319.0
57.5°	298.8	297.8
60°	280.5	277.5
62.5°	263.3	261.3
65°	252.2	251.2
67.5°	244.1	241.0
70°	242.1	234.0
72.5°	236.0	225.9
75°	221.8	216.7
77.5°	195.5	189.4
80°	150.9	139.8
82.5°	126.6	109.4
85°	93.2	86.1
87.5°	67.9	53.7
90°	0.0	0.0

(END OF REPORT)