

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: P163262

Luminaire Tested: **LDRL-SL2-F04-E-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163262
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-F04-E-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5872.9 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

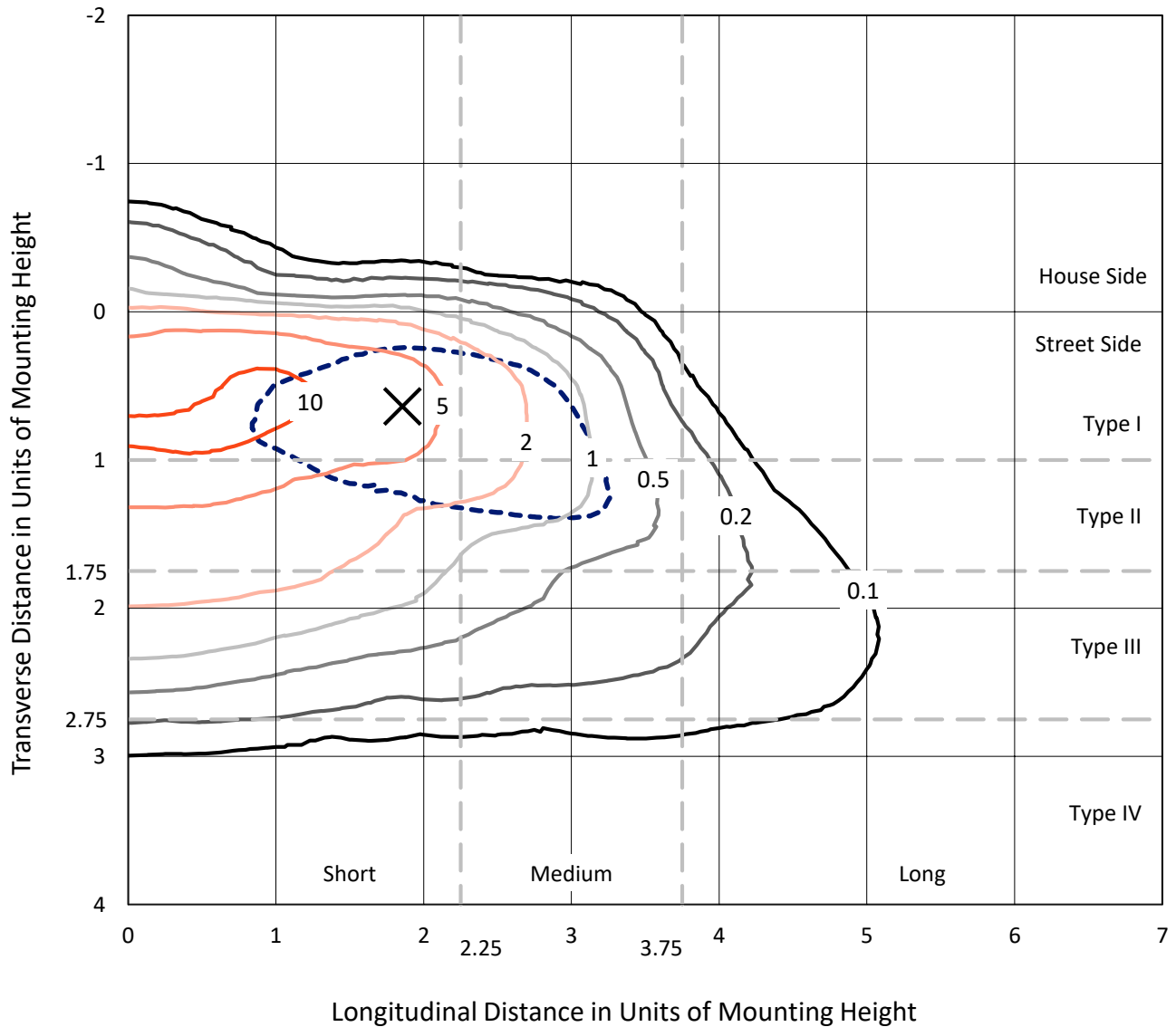
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

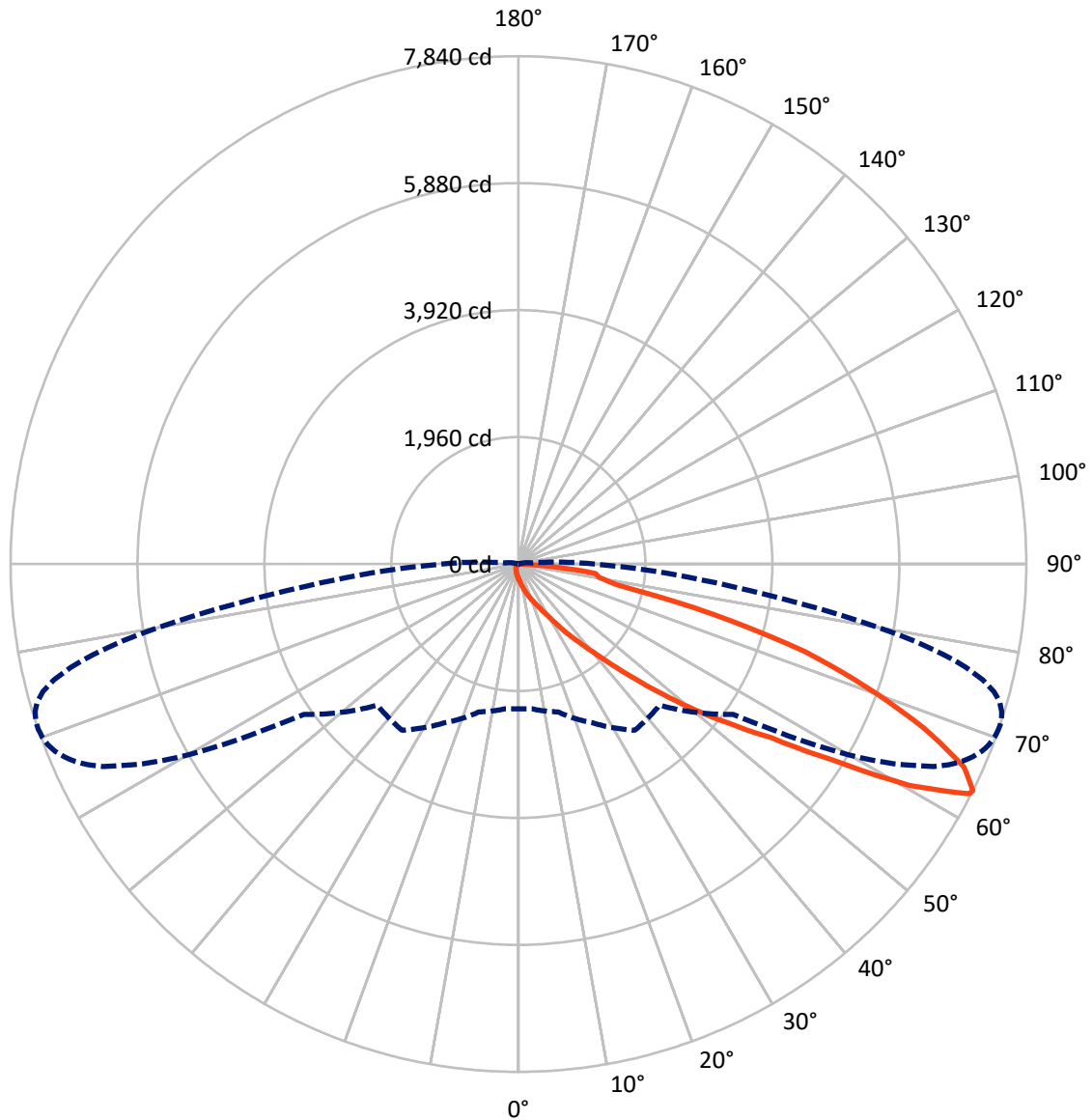
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	124.7	0.0	124.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5748.3	0.0	5748.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	5872.9	0.0	5872.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	0.4
10°-20°	96.6	1.6
20°-30°	196.1	3.3
30°-40°	479.2	8.2
40°-50°	1071.7	18.2
50°-60°	1506.9	25.7
60°-70°	1772.0	30.2
70°-80°	639.9	10.9
80°-90°	85.6	1.5
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°	5872.9	100.0
0°-180°	5872.9	100.0



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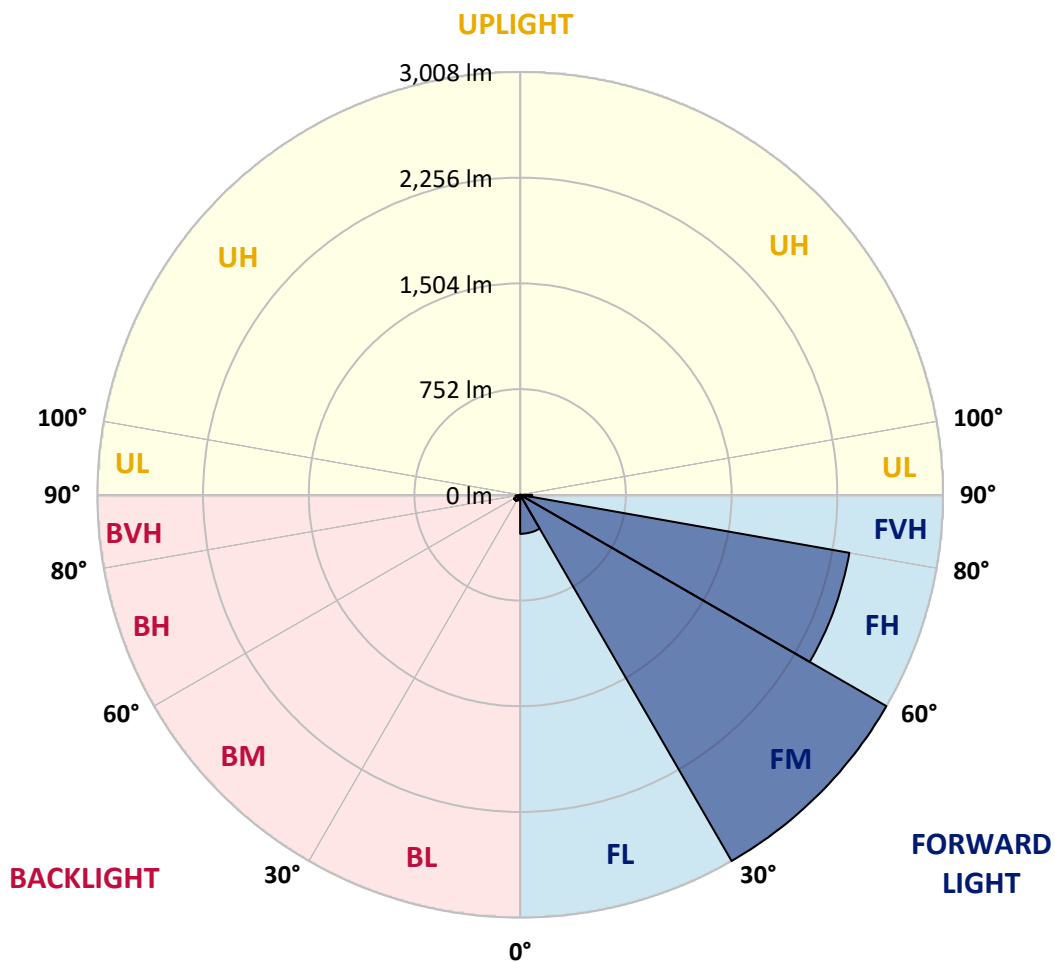
CATALOG NUMBER: LDRL-SL2-F04-E-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.5	4.7			
FM (30°-60°)	3007.6	51.2			
FH (60°-80°)	2377.7	40.5			G2/5000
FVH (80°-90°)	85.4	1.5			G1/100
BL (0°-30°)	40.1	0.7	B0/110		
BM (30°-60°)	50.2	0.9	B0/220		
BH (60°-80°)	34.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3
2.5°	294.7	297.8	295.7	290.4	284.0	275.5	268.0	268.0	266.9	263.7	264.8
5°	386.5	387.5	383.3	370.5	358.7	340.6	320.3	318.2	316.0	312.8	311.8
7.5°	476.2	480.5	476.2	462.3	438.8	411.0	379.0	375.8	369.4	369.4	365.1
10°	568.0	568.0	563.7	547.7	526.4	486.9	446.3	441.0	433.5	431.3	424.9
12.5°	633.1	633.1	631.0	622.4	605.3	570.1	521.0	515.7	506.1	502.8	495.4
15°	658.8	658.8	659.8	667.3	668.3	652.4	601.1	596.8	587.2	578.7	575.5
17.5°	674.8	673.7	673.7	684.4	703.6	714.2	681.2	676.9	666.2	661.9	651.3
20°	710.0	707.8	701.4	701.4	719.6	757.0	757.0	755.9	744.2	741.0	735.6
22.5°	762.3	760.2	741.0	724.9	733.5	780.5	824.3	822.1	817.9	813.6	810.3
25°	847.7	840.3	807.2	760.2	752.7	802.9	875.5	880.8	884.0	884.0	886.2
27.5°	976.9	967.3	908.6	821.0	787.9	839.2	932.1	942.7	952.4	954.5	964.1
30°	1156.3	1139.2	1054.9	926.8	851.0	892.6	1015.3	1027.1	1041.0	1045.2	1060.2
32.5°	1450.9	1441.4	1360.2	1168.0	1005.8	997.2	1131.7	1146.7	1164.8	1172.3	1190.5
35°	1899.4	1901.5	1835.3	1662.3	1438.1	1320.7	1339.9	1352.7	1359.1	1381.5	1391.2
37.5°	2203.7	2209.0	2224.0	2155.6	1995.5	1875.9	1725.3	1739.2	1706.1	1709.4	1710.4
40°	2370.2	2387.3	2474.9	2541.0	2528.2	2458.8	2338.2	2345.7	2283.7	2269.9	2202.6
42.5°	2481.3	2503.7	2643.5	2848.5	2953.2	3016.1	2988.4	2985.2	2937.2	2919.0	2862.4
45°	2550.7	2570.9	2747.1	3049.3	3290.5	3474.2	3550.0	3558.5	3518.0	3499.8	3452.8
47.5°	2547.4	2570.9	2759.9	3124.0	3479.6	3773.1	3986.7	3997.3	4021.9	4005.9	4009.1
50°	2406.5	2429.0	2619.0	2996.9	3424.0	3909.8	4300.6	4334.7	4374.2	4400.9	4413.7
52.5°	2235.7	2251.7	2420.4	2779.1	3187.0	3853.2	4486.4	4545.1	4603.8	4654.0	4689.2
55°	2172.7	2190.9	2323.2	2621.1	2996.9	3616.2	4572.8	4659.3	4742.6	4824.8	4892.1
57.5°	2205.8	2222.9	2317.9	2546.4	2883.8	3366.4	4597.4	4731.9	4868.5	5002.0	5134.4
60°	2327.5	2345.7	2426.8	2615.8	2853.9	3222.2	4501.3	4724.4	4951.8	5184.6	5403.5
62.5°	2279.4	2287.0	2406.5	2737.5	3067.4	3099.4	4152.2	4463.9	4810.9	5169.6	5523.0
63°	2233.5	2242.1	2363.8	2704.4	3132.6	3081.3	4044.3	4373.2	4739.4	5125.8	5510.2
65°	2025.4	2026.4	2119.4	2388.3	3059.9	3113.4	3563.9	3877.8	4298.4	4761.8	5247.6
67.5°	1511.8	1504.4	1594.1	1799.0	2402.3	3114.4	3058.9	3235.0	3527.6	3938.6	4374.2
70°	536.0	524.2	669.4	953.4	1496.8	2547.4	2628.6	2640.4	2721.5	2943.6	3216.9
72.5°	174.0	177.3	213.5	349.1	689.7	1714.6	2379.8	2343.5	2322.2	2321.1	2357.4
75°	69.4	70.5	85.4	154.8	309.6	826.4	2084.1	2104.4	2111.8	2122.5	2134.3
77.5°	33.1	36.3	48.0	86.4	153.7	408.9	1491.6	1663.4	1761.7	1837.5	1883.4
80°	11.8	13.9	26.7	53.4	71.5	187.9	785.8	948.1	1092.2	1278.0	1438.1
82.5°	0.0	0.0	5.3	37.4	39.5	75.8	322.4	378.0	432.4	560.5	719.6
85°	0.0	0.0	0.0	10.7	11.8	12.8	108.9	131.3	147.3	171.9	198.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	6.4	16.0	24.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3
2.5°	262.6	261.6	261.6	259.4	258.4	256.2	255.2	252.0	250.9	250.9	250.9
5°	310.7	306.4	304.3	299.0	295.7	294.7	289.3	287.2	284.0	285.0	279.8
7.5°	364.1	356.6	353.4	345.9	343.8	336.3	334.2	328.8	325.7	319.2	317.1
10°	422.8	413.2	407.9	396.1	392.9	387.5	381.1	374.7	369.4	363.0	359.8
12.5°	490.0	481.5	477.2	461.2	453.8	446.3	437.7	429.2	420.7	415.3	407.9
15°	569.1	555.2	550.9	536.0	523.2	513.5	501.8	491.2	484.7	474.0	466.6
17.5°	647.0	633.1	629.9	607.5	593.7	587.2	574.4	560.5	548.8	538.1	526.4
20°	724.9	715.4	706.8	685.4	670.5	659.8	642.7	628.9	619.3	604.3	589.4
22.5°	802.9	793.3	786.9	764.4	750.6	735.6	720.7	705.7	691.9	673.7	656.6
25°	883.0	876.6	873.3	853.1	840.3	826.4	811.5	794.4	777.2	757.0	738.8
27.5°	966.3	968.4	962.0	957.7	943.8	934.2	910.7	899.0	886.2	861.6	839.2
30°	1071.9	1078.3	1076.2	1079.4	1070.9	1064.5	1046.3	1031.4	1016.5	992.9	967.3
32.5°	1205.4	1213.9	1218.2	1230.0	1225.7	1223.6	1218.2	1196.9	1186.2	1145.6	1134.9
35°	1411.4	1407.2	1425.3	1435.0	1430.7	1428.6	1422.1	1410.4	1397.6	1368.7	1342.0
37.5°	1679.4	1683.7	1690.1	1670.9	1658.1	1657.0	1637.8	1626.1	1607.9	1575.9	1543.9
40°	2170.5	2143.9	2114.0	2032.8	1997.6	1977.3	1920.8	1904.7	1873.7	1830.0	1796.9
42.5°	2809.0	2782.3	2692.7	2557.1	2484.4	2384.1	2338.2	2281.6	2237.8	2166.3	2127.9
45°	3443.2	3366.4	3355.7	3197.7	3108.0	2975.6	2893.4	2798.3	2699.1	2605.1	2536.8
47.5°	3978.1	3961.1	3908.8	3812.7	3729.4	3618.3	3512.6	3366.4	3263.9	3130.4	3007.6
50°	4406.3	4405.2	4386.0	4330.4	4261.1	4171.4	4078.5	3954.7	3838.3	3674.9	3543.6
52.5°	4726.6	4743.7	4750.1	4733.0	4706.3	4627.3	4580.3	4476.7	4378.5	4239.7	4097.7
55°	4961.5	5024.5	5056.5	5092.8	5085.3	5057.6	5055.4	4988.2	4943.3	4833.3	4733.0
57.5°	5251.9	5355.4	5454.7	5630.9	5637.3	5699.2	5731.3	5763.3	5771.8	5728.0	5694.9
60°	5621.3	5832.7	6020.6	6388.9	6485.0	6636.6	6734.8	6841.6	6932.4	6939.8	6937.7
62.5°	5881.8	6207.4	6510.6	7057.3	7244.1	7419.2	7550.5	7654.1	7717.1	7781.1	7811.1
63°	5889.2	6245.9	6568.3	7132.0	7328.5	7495.0	7619.9	7716.0	7782.3	7820.7	7839.9
65°	5708.8	6141.2	6525.6	7087.2	7271.9	7439.5	7504.6	7567.6	7599.7	7614.6	7558.0
67.5°	4838.7	5261.5	5709.9	6337.7	6495.7	6696.4	6749.8	6781.9	6796.8	6793.5	6745.5
70°	3618.3	3972.8	4471.4	5188.9	5398.1	5594.5	5716.3	5768.6	5785.7	5780.3	5708.8
72.5°	2526.1	2734.3	3145.4	3944.0	4229.1	4481.0	4631.5	4709.5	4725.5	4693.5	4627.3
75°	2121.5	2132.2	2225.0	2661.7	2928.6	3197.7	3367.4	3416.6	3384.5	3287.4	3118.6
77.5°	1894.0	1917.5	1917.5	1982.6	2035.0	2109.7	2125.8	2006.2	1867.3	1688.0	1542.8
80°	1588.7	1670.9	1728.6	1776.6	1781.9	1767.0	1727.5	1660.2	1553.4	1416.8	1265.2
82.5°	965.2	1127.5	1193.6	1441.4	1563.1	1645.3	1638.9	1549.2	1468.0	1326.1	1196.9
85°	243.4	262.6	285.0	370.5	415.3	507.1	564.8	591.5	601.1	552.0	499.7
87.5°	23.5	16.0	26.7	20.3	28.8	21.3	28.8	26.7	33.1	35.2	38.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3
2.5°	248.8	247.7	246.6	245.5	244.5	243.4	241.3	241.3	239.1	238.1	237.0
5°	276.5	274.4	273.3	271.2	268.0	265.8	262.6	258.4	255.2	254.1	252.0
7.5°	311.8	306.4	304.3	301.1	296.8	290.4	286.2	282.9	277.6	274.4	268.0
10°	351.3	345.9	339.5	333.1	326.7	319.2	313.9	309.6	301.1	296.8	289.3
12.5°	401.5	391.8	384.4	375.8	367.3	358.7	352.3	339.5	332.1	322.4	316.0
15°	452.7	444.1	435.6	424.9	412.1	398.2	391.8	380.1	370.5	355.5	347.0
17.5°	514.6	498.6	485.8	473.0	461.2	448.4	435.6	417.5	403.6	390.8	373.7
20°	575.5	556.3	542.4	525.3	508.2	487.9	473.0	460.2	441.0	423.9	405.7
22.5°	640.6	621.4	598.9	581.9	558.4	542.4	522.1	500.7	481.5	459.1	436.7
25°	719.6	699.3	673.7	651.3	624.6	602.2	577.6	553.0	529.6	504.0	475.1
27.5°	816.7	795.4	767.7	741.0	705.7	678.0	654.5	621.4	591.5	559.4	526.4
30°	939.6	916.1	881.9	843.5	808.2	777.2	744.2	700.4	667.3	628.9	586.1
32.5°	1099.7	1071.9	1026.0	989.7	946.0	905.4	859.5	815.7	768.7	718.5	669.4
35°	1301.5	1275.9	1222.5	1169.1	1121.1	1073.0	1015.3	965.2	899.0	838.1	775.1
37.5°	1510.8	1464.8	1415.7	1358.1	1298.3	1240.6	1170.1	1100.8	1025.0	958.8	879.7
40°	1749.9	1694.4	1653.8	1591.9	1507.5	1425.3	1360.2	1273.8	1178.7	1090.1	997.2
42.5°	2077.7	2015.7	1943.2	1849.2	1788.4	1692.3	1607.9	1505.4	1380.5	1281.2	1169.1
45°	2456.7	2372.4	2301.9	2211.2	2137.4	2017.9	1919.6	1783.0	1658.1	1527.8	1391.2
47.5°	2889.1	2784.5	2682.0	2592.3	2474.9	2357.4	2232.5	2087.3	1927.2	1784.1	1621.8
50°	3385.6	3237.2	3095.2	2979.9	2818.7	2683.0	2547.4	2384.1	2206.9	2042.5	1857.8
52.5°	3937.6	3765.6	3577.8	3400.5	3213.7	3039.6	2876.3	2688.4	2490.8	2290.1	2084.1
55°	4603.8	4474.6	4253.6	4028.3	3778.5	3545.7	3335.4	3102.7	2862.4	2598.7	2381.9
57.5°	5646.9	5583.9	5399.2	5173.9	4848.3	4565.4	4208.7	3923.7	3575.6	3212.6	2932.9
60°	7060.5	6982.6	6879.0	6696.4	6438.0	6053.7	5660.8	5217.7	4688.1	4185.3	3708.0
62.5°	7814.3	7786.5	7702.1	7576.1	7334.9	7031.7	6635.6	6148.7	5550.8	4940.1	4331.5
63°	7836.7	7801.5	7728.8	7600.7	7388.2	7094.6	6706.0	6233.0	5648.0	5025.5	4404.1
65°	7533.5	7519.6	7445.9	7306.0	7160.9	6936.7	6635.6	6228.8	5737.7	5149.4	4531.2
67.5°	6681.5	6639.8	6526.7	6483.9	6382.5	6226.6	5997.1	5717.4	5366.1	4903.8	4369.9
70°	5651.1	5589.3	5447.2	5371.5	5247.6	5149.4	5009.5	4809.8	4593.1	4270.7	3872.4
72.5°	4558.9	4430.8	4300.6	4103.1	3930.1	3755.0	3600.1	3459.2	3221.1	3090.9	2788.8
75°	2960.7	2727.9	2504.8	2205.8	1936.7	1698.7	1467.0	1349.5	1105.0	1005.8	863.8
77.5°	1405.0	1274.8	1099.7	964.1	791.1	646.0	527.4	396.1	310.7	243.4	185.8
80°	1133.9	1023.9	918.2	795.4	665.2	530.6	406.8	304.3	215.7	149.5	105.7
82.5°	1011.1	891.5	761.3	676.9	588.3	481.5	395.1	322.4	238.1	174.0	118.5
85°	392.9	331.0	255.2	208.2	162.3	133.5	120.7	83.3	65.1	51.2	39.5
87.5°	34.1	27.7	22.4	14.9	16.0	8.5	9.6	6.4	5.3	5.3	4.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3
2.5°	236.0	234.9	233.8	231.7	231.7	229.6	228.5	227.4	222.1	210.3	200.7
5°	247.7	245.5	243.4	240.2	238.1	234.9	232.7	229.6	217.8	195.4	176.1
7.5°	264.8	260.5	257.3	250.9	247.7	243.4	240.2	234.9	215.7	181.5	154.8
10°	285.0	277.6	272.2	264.8	258.4	253.0	247.7	240.2	213.5	166.6	135.6
12.5°	309.6	301.1	290.4	281.9	273.3	265.8	258.4	248.8	210.3	153.7	120.7
15°	334.2	321.4	313.9	302.1	290.4	279.8	269.1	260.5	211.4	139.9	107.8
17.5°	361.9	349.1	333.1	320.3	307.5	293.6	280.8	263.7	206.1	129.2	98.2
20°	388.7	370.5	355.5	339.5	321.4	304.3	288.3	273.3	201.8	118.5	89.7
22.5°	417.5	396.1	376.9	356.6	334.2	315.0	295.7	276.5	194.3	108.9	82.2
25°	452.7	428.2	400.3	375.8	352.3	328.8	304.3	280.8	186.8	100.4	76.9
27.5°	495.4	463.4	435.6	404.6	371.6	341.6	315.0	289.3	179.4	94.0	71.5
30°	549.9	512.5	473.0	433.5	398.2	364.1	326.7	294.7	171.9	87.6	66.2
32.5°	622.4	575.5	527.4	481.5	434.6	390.8	351.3	309.6	167.6	82.2	60.8
35°	718.5	657.7	598.9	541.3	484.7	431.3	380.1	333.1	167.6	75.8	54.4
37.5°	809.3	738.8	664.1	592.5	525.3	463.4	402.5	345.9	159.1	70.5	49.1
40°	907.5	823.1	735.6	651.3	570.1	493.3	423.9	358.7	151.6	64.1	43.8
42.5°	1058.1	951.3	837.1	738.8	641.7	546.6	460.2	383.3	142.0	57.7	38.4
45°	1255.6	1120.0	985.5	865.9	742.0	625.7	523.2	428.2	139.9	52.3	33.1
47.5°	1467.0	1306.8	1148.8	996.1	851.0	715.4	592.5	478.3	139.9	47.0	28.8
50°	1677.3	1476.6	1307.9	1130.6	967.3	807.2	660.9	530.6	140.9	42.7	23.5
52.5°	1867.3	1652.8	1463.8	1258.8	1078.3	892.6	733.5	581.9	138.8	37.4	19.2
55°	2131.0	1879.1	1660.2	1433.9	1222.5	1013.2	832.8	658.8	139.9	33.1	16.0
57.5°	2616.8	2321.1	2057.4	1760.6	1517.2	1247.0	1028.1	816.7	152.7	27.7	11.8
60°	3314.1	2929.7	2559.2	2197.3	1887.6	1566.3	1282.3	1033.5	179.4	22.4	8.5
62.5°	3782.8	3279.8	2837.9	2438.5	2078.7	1742.5	1432.8	1149.9	197.5	18.2	5.3
63°	3830.8	3310.8	2866.7	2454.6	2087.3	1751.0	1439.2	1158.4	198.6	17.1	5.3
65°	3921.6	3364.2	2882.7	2457.8	2078.7	1739.2	1435.0	1157.3	200.7	13.9	4.3
67.5°	3818.0	3282.0	2789.8	2366.0	2004.0	1669.8	1381.5	1114.7	199.6	9.6	3.2
70°	3414.4	2970.2	2537.9	2142.8	1814.0	1511.8	1257.7	1016.5	183.7	6.4	2.1
72.5°	2506.9	2204.7	1869.5	1584.4	1366.6	1134.9	968.4	763.4	142.0	4.3	1.1
75°	743.1	676.9	569.1	501.8	443.1	366.2	325.7	254.1	72.6	2.1	0.0
77.5°	148.4	134.5	120.7	110.0	103.6	88.6	84.3	69.4	29.9	1.1	0.0
80°	77.9	64.1	54.4	48.0	41.6	34.1	28.8	23.5	5.3	0.0	0.0
82.5°	74.8	50.2	36.3	29.9	25.6	20.3	16.0	11.8	3.2	0.0	0.0
85°	27.7	21.3	16.0	12.8	10.7	9.6	7.5	6.4	0.0	0.0	0.0
87.5°	4.3	3.2	3.2	2.1	2.1	1.1	1.1	1.1	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	225.3	225.3	225.3	225.3	225.3	225.3	225.3
2.5°	191.1	182.5	178.3	173.0	173.0	171.9	174.0
5°	159.1	147.3	138.8	132.4	133.5	130.2	131.3
7.5°	134.5	122.8	115.3	111.0	110.0	108.9	108.9
10°	116.4	105.7	99.3	96.1	95.0	95.0	95.0
12.5°	103.6	92.9	87.6	85.4	85.4	84.3	84.3
15°	92.9	84.3	79.0	76.9	76.9	75.8	76.9
17.5°	84.3	75.8	71.5	69.4	69.4	68.4	68.4
20°	76.9	69.4	65.1	61.9	61.9	60.8	61.9
22.5°	70.5	63.0	57.7	55.5	54.4	53.4	54.4
25°	64.1	56.6	51.2	48.0	47.0	47.0	45.9
27.5°	58.7	51.2	44.8	41.6	40.5	40.5	39.5
30°	53.4	44.8	38.4	35.2	34.1	34.1	34.1
32.5°	48.0	38.4	33.1	29.9	28.8	28.8	28.8
35°	42.7	33.1	27.7	24.6	23.5	23.5	23.5
37.5°	36.3	27.7	21.3	19.2	18.2	17.1	17.1
40°	31.0	21.3	16.0	13.9	11.8	11.8	11.8
42.5°	25.6	17.1	11.8	8.5	7.5	6.4	7.5
45°	21.3	12.8	7.5	4.3	3.2	3.2	3.2
47.5°	17.1	8.5	3.2	1.1	1.1	1.1	1.1
50°	12.8	5.3	1.1	0.0	0.0	1.1	1.1
52.5°	9.6	3.2	0.0	0.0	0.0	0.0	0.0
55°	5.3	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)