

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: P163252

Luminaire Tested: **LDRL-SL2-F03-E-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163252  
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-F03-E-HSS  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4404.7 lumens  
Efficiency: N/A  
Efficacy: 56.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

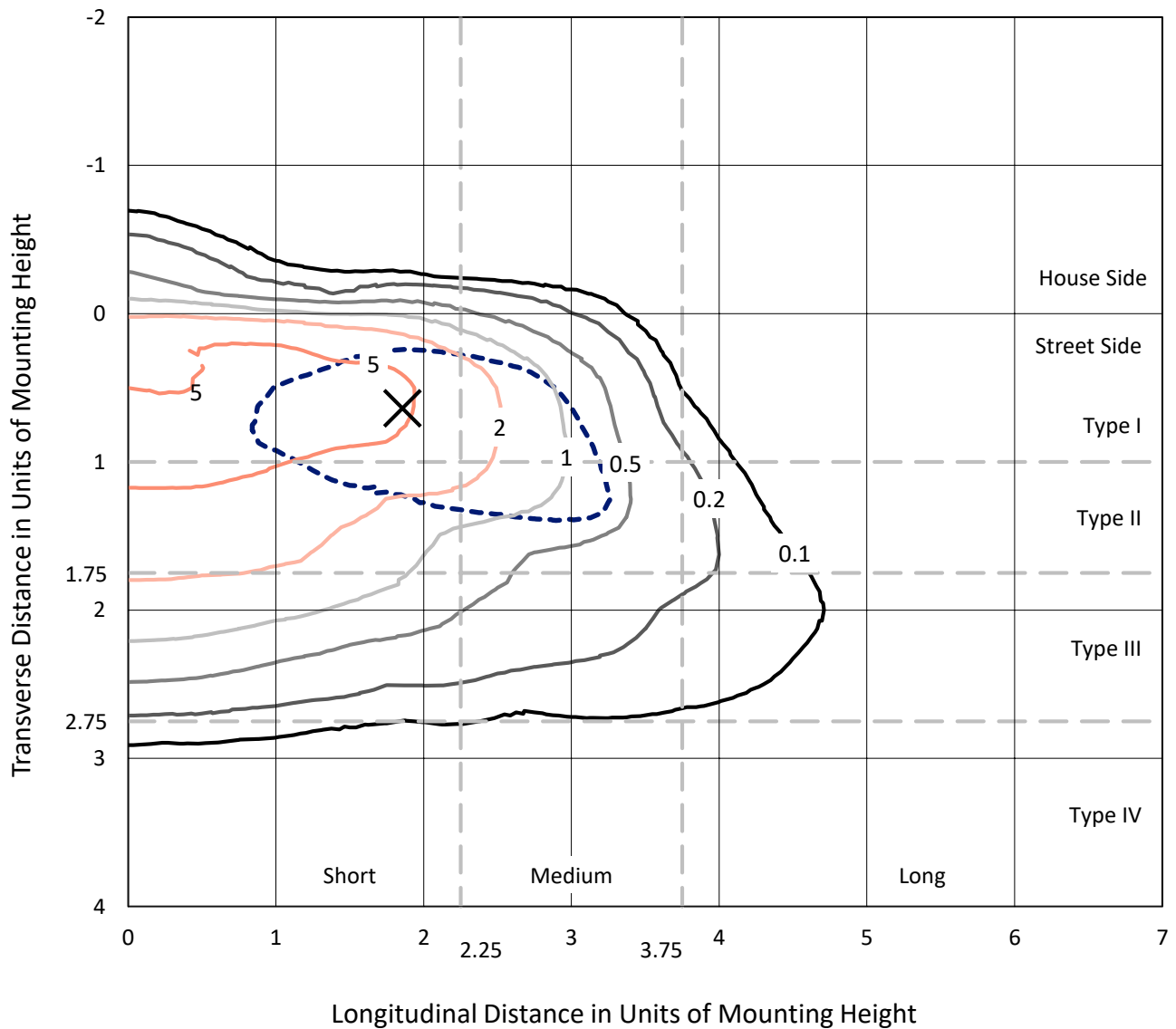
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

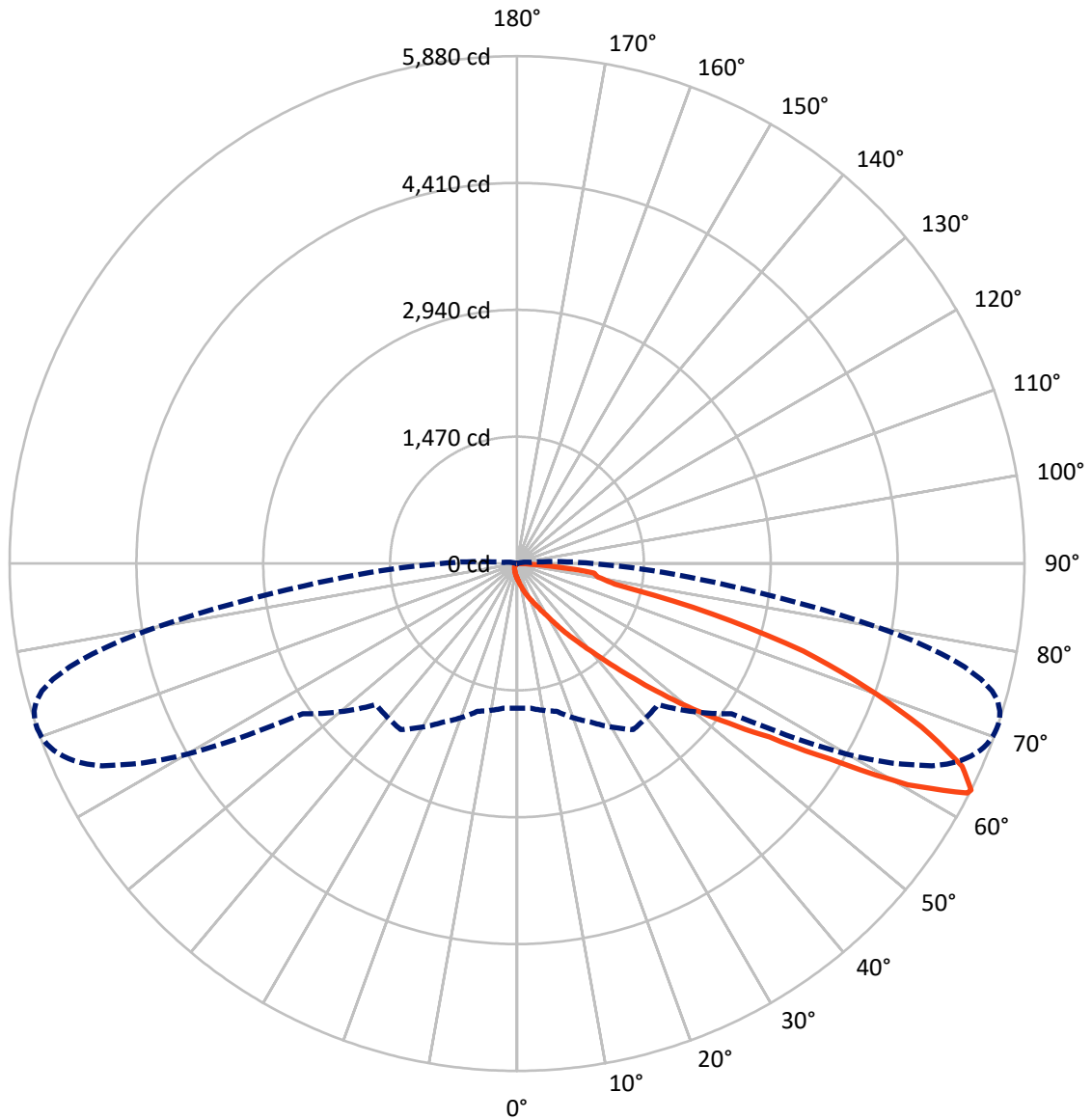
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 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
<b>House Side</b>	Lumens	93.5	0.0	93.5
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	4311.2	0.0	4311.2
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	4404.7	0.0	4404.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.7	0.4
10°-20°	72.4	1.6
20°-30°	147.1	3.3
30°-40°	359.4	8.2
40°-50°	803.8	18.2
50°-60°	1130.2	25.7
60°-70°	1329.0	30.2
70°-80°	479.9	10.9
80°-90°	64.2	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°	4404.7	100.0
0°-180°	4404.7	100.0



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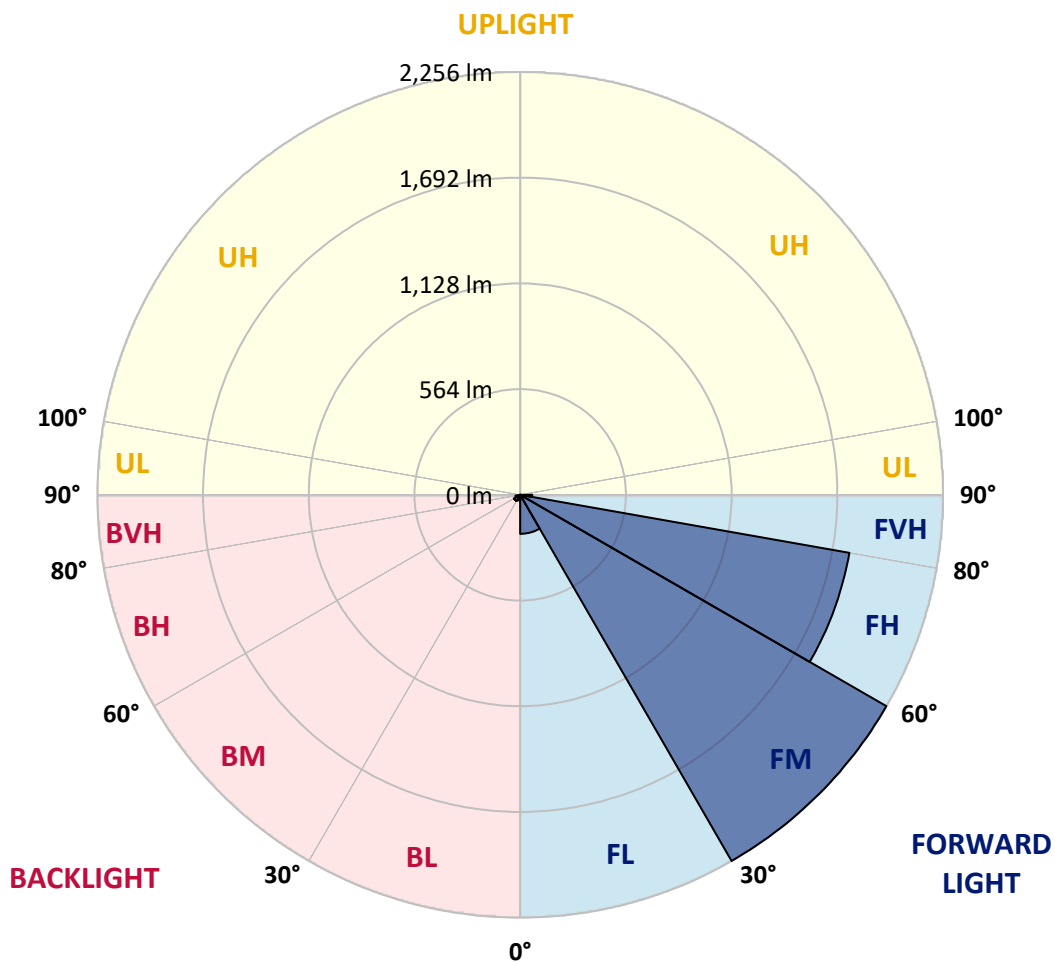
CATALOG NUMBER: LDRL-SL2-F03-E-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.1	4.7			
FM (30°-60°)	2255.7	51.2			
FH (60°-80°)	1783.3	40.5			G1/1800
FVH (80°-90°)	64.0	1.5			G1/100
BL (0°-30°)	30.1	0.7	B0/110		
BM (30°-60°)	37.7	0.9	B0/220		
BH (60°-80°)	25.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0
2.5°	221.0	223.4	221.8	217.8	213.0	206.6	201.0	201.0	200.2	197.8	198.6
5°	289.9	290.7	287.5	277.9	269.1	255.4	240.2	238.6	237.0	234.6	233.8
7.5°	357.1	360.3	357.1	346.7	329.1	308.3	284.3	281.9	277.1	277.1	273.9
10°	426.0	426.0	422.8	410.8	394.8	365.1	334.7	330.7	325.1	323.5	318.7
12.5°	474.9	474.9	473.2	466.8	454.0	427.6	390.8	386.7	379.6	377.1	371.5
15°	494.1	494.1	494.9	500.5	501.3	489.3	450.8	447.6	440.4	434.0	431.6
17.5°	506.1	505.3	505.3	513.3	527.7	535.7	510.9	507.7	499.7	496.5	488.5
20°	532.5	530.9	526.1	526.1	539.7	567.7	567.7	566.9	558.1	555.7	551.7
22.5°	571.7	570.2	555.7	543.7	550.1	585.4	618.2	616.6	613.4	610.2	607.8
25°	635.8	630.2	605.4	570.2	564.5	602.2	656.6	660.6	663.0	663.0	664.6
27.5°	732.7	725.5	681.5	615.8	591.0	629.4	699.0	707.1	714.3	715.9	723.1
30°	867.2	854.4	791.2	695.1	638.2	669.4	761.5	770.3	780.7	783.9	795.1
32.5°	1088.2	1081.0	1020.2	876.0	754.3	747.9	848.8	860.0	873.6	879.2	892.9
35°	1424.5	1426.2	1376.5	1246.8	1078.6	990.5	1004.9	1014.6	1019.4	1036.1	1043.4
37.5°	1652.8	1656.7	1668.0	1616.7	1496.6	1406.9	1294.0	1304.4	1279.6	1282.0	1282.8
40°	1777.7	1790.5	1856.1	1905.8	1896.2	1844.1	1753.7	1759.3	1712.8	1702.4	1651.9
42.5°	1860.9	1877.7	1982.6	2136.4	2214.9	2262.1	2241.3	2238.9	2202.9	2189.2	2146.8
45°	1913.0	1928.2	2060.3	2287.0	2467.9	2605.7	2662.5	2668.9	2638.5	2624.9	2589.6
47.5°	1910.6	1928.2	2069.9	2343.0	2609.7	2829.8	2990.0	2998.0	3016.4	3004.4	3006.8
50°	1804.9	1821.7	1964.2	2247.7	2568.0	2932.4	3225.4	3251.0	3280.7	3300.7	3310.3
52.5°	1676.8	1688.8	1815.3	2084.3	2390.2	2889.9	3364.8	3408.8	3452.8	3490.5	3516.9
55°	1629.5	1643.2	1742.4	1965.9	2247.7	2712.1	3429.6	3494.5	3557.0	3618.6	3669.0
57.5°	1654.4	1667.2	1738.4	1909.8	2162.8	2524.8	3448.0	3548.9	3651.4	3751.5	3850.8
60°	1745.6	1759.3	1820.1	1961.8	2140.4	2416.6	3376.0	3543.3	3713.9	3888.5	4052.6
62.5°	1709.6	1715.2	1804.9	2053.1	2300.5	2324.6	3114.1	3347.9	3608.2	3877.2	4142.3
63°	1675.2	1681.6	1772.9	2028.3	2349.4	2311.0	3033.3	3279.9	3554.5	3844.4	4132.7
65°	1519.0	1519.8	1589.5	1791.3	2294.9	2335.0	2672.9	2908.3	3223.8	3571.4	3935.7
67.5°	1133.9	1128.3	1195.5	1349.3	1801.7	2335.8	2294.2	2426.3	2645.7	2954.0	3280.7
70°	402.0	393.2	502.1	715.1	1122.6	1910.6	1971.5	1980.3	2041.1	2207.7	2412.7
72.5°	130.5	132.9	160.1	261.8	517.3	1286.0	1784.9	1757.6	1741.6	1740.8	1768.1
75°	52.1	52.9	64.0	116.1	232.2	619.8	1563.1	1578.3	1583.9	1591.9	1600.7
77.5°	24.8	27.2	36.0	64.8	115.3	306.7	1118.7	1247.5	1321.3	1378.1	1412.5
80°	8.8	10.4	20.0	40.0	53.6	140.9	589.4	711.1	819.2	958.5	1078.6
82.5°	0.0	0.0	4.0	28.0	29.6	56.9	241.8	283.5	324.3	420.4	539.7
85°	0.0	0.0	0.0	8.0	8.8	9.6	81.7	98.5	110.5	128.9	148.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.8	12.0	18.4
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0
2.5°	197.0	196.2	196.2	194.6	193.8	192.2	191.4	189.0	188.2	188.2	188.2
5°	233.0	229.8	228.2	224.2	221.8	221.0	217.0	215.4	213.0	213.8	209.8
7.5°	273.1	267.5	265.0	259.4	257.9	252.2	250.6	246.6	244.2	239.4	237.8
10°	317.1	309.9	305.9	297.1	294.7	290.7	285.8	281.0	277.1	272.3	269.8
12.5°	367.5	361.1	357.9	345.9	340.3	334.7	328.3	321.9	315.5	311.5	305.9
15°	426.8	416.4	413.2	402.0	392.4	385.2	376.3	368.4	363.6	355.5	349.9
17.5°	485.3	474.9	472.4	455.6	445.2	440.4	430.8	420.4	411.6	403.6	394.8
20°	543.7	536.5	530.1	514.1	502.9	494.9	482.0	471.6	464.5	453.2	442.0
22.5°	602.2	595.0	590.2	573.3	562.9	551.7	540.5	529.3	518.9	505.3	492.4
25°	662.2	657.4	655.0	639.8	630.2	619.8	608.6	595.8	582.9	567.7	554.1
27.5°	724.7	726.3	721.5	718.3	707.9	700.7	683.0	674.2	664.6	646.2	629.4
30°	803.9	808.8	807.2	809.5	803.2	798.3	784.7	773.5	762.3	744.7	725.5
32.5°	904.0	910.4	913.7	922.5	919.3	917.7	913.7	897.7	889.6	859.2	851.2
35°	1058.6	1055.4	1069.0	1076.2	1073.0	1071.4	1066.6	1057.8	1048.2	1026.5	1006.5
37.5°	1259.6	1262.8	1267.6	1253.2	1243.6	1242.7	1228.3	1219.6	1205.9	1181.9	1157.9
40°	1627.9	1607.9	1585.5	1524.6	1498.2	1483.0	1440.6	1428.5	1405.3	1372.5	1347.7
42.5°	2106.8	2086.8	2019.5	1917.8	1863.3	1788.1	1753.7	1711.2	1678.4	1624.7	1595.9
45°	2582.4	2524.8	2516.7	2398.3	2331.0	2231.7	2170.0	2098.7	2024.3	1953.8	1902.6
47.5°	2983.6	2970.8	2931.6	2859.5	2797.0	2713.7	2634.5	2524.8	2447.9	2347.8	2255.7
50°	3304.7	3303.9	3289.5	3247.8	3195.8	3128.6	3058.9	2966.0	2878.7	2756.2	2657.7
52.5°	3544.9	3557.7	3562.6	3549.7	3529.7	3470.5	3435.2	3357.5	3283.9	3179.8	3073.3
55°	3721.1	3768.4	3792.4	3819.6	3814.0	3793.2	3791.5	3741.1	3707.5	3625.0	3549.7
57.5°	3938.9	4016.6	4091.1	4223.2	4228.0	4274.4	4298.4	4322.5	4328.9	4296.0	4271.2
60°	4216.0	4374.5	4515.4	4791.7	4863.7	4977.5	5051.1	5131.2	5199.3	5204.9	5203.3
62.5°	4411.3	4655.6	4883.0	5293.0	5433.1	5564.4	5662.9	5740.6	5787.8	5835.9	5858.3
63°	4416.9	4684.4	4926.2	5349.0	5496.4	5621.3	5714.9	5787.0	5836.7	5865.5	5879.9
65°	4281.6	4605.9	4894.2	5315.4	5453.9	5579.6	5628.5	5675.7	5699.7	5710.9	5668.5
67.5°	3629.0	3946.1	4282.4	4753.2	4871.8	5022.3	5062.4	5086.4	5097.6	5095.2	5059.1
70°	2713.7	2979.6	3353.5	3891.6	4048.6	4195.9	4287.2	4326.5	4339.3	4335.2	4281.6
72.5°	1894.6	2050.7	2359.0	2958.0	3171.8	3360.8	3473.6	3532.1	3544.1	3520.1	3470.5
75°	1591.1	1599.1	1668.8	1996.3	2196.5	2398.3	2525.6	2562.4	2538.4	2465.5	2339.0
77.5°	1420.5	1438.1	1438.1	1487.0	1526.2	1582.3	1594.3	1504.6	1400.5	1266.0	1157.1
80°	1191.5	1253.2	1296.4	1332.4	1336.5	1325.3	1295.6	1245.2	1165.1	1062.6	948.9
82.5°	723.9	845.6	895.2	1081.0	1172.3	1234.0	1229.2	1161.9	1101.0	994.5	897.7
85°	182.6	197.0	213.8	277.9	311.5	380.4	423.6	443.6	450.8	414.0	374.8
87.5°	17.6	12.0	20.0	15.2	21.6	16.0	21.6	20.0	24.8	26.4	28.8
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0
2.5°	186.6	185.8	185.0	184.2	183.4	182.6	181.0	181.0	179.4	178.6	177.8
5°	207.4	205.8	205.0	203.4	201.0	199.4	197.0	193.8	191.4	190.6	189.0
7.5°	233.8	229.8	228.2	225.8	222.6	217.8	214.6	212.2	208.2	205.8	201.0
10°	263.5	259.4	254.6	249.8	245.0	239.4	235.4	232.2	225.8	222.6	217.0
12.5°	301.1	293.9	288.3	281.9	275.4	269.1	264.3	254.6	249.0	241.8	237.0
15°	339.5	333.1	326.7	318.7	309.1	298.7	293.9	285.1	277.9	266.6	260.2
17.5°	385.9	374.0	364.4	354.7	345.9	336.3	326.7	313.1	302.7	293.1	280.2
20°	431.6	417.2	406.8	394.0	381.1	365.9	354.7	345.1	330.7	317.9	304.3
22.5°	480.5	466.0	449.2	436.4	418.8	406.8	391.5	375.5	361.1	344.3	327.5
25°	539.7	524.5	505.3	488.5	468.4	451.6	433.2	414.8	397.2	378.0	356.3
27.5°	612.6	596.6	575.8	555.7	529.3	508.5	490.9	466.0	443.6	419.6	394.8
30°	704.7	687.1	661.4	632.6	606.2	582.9	558.1	525.3	500.5	471.6	439.6
32.5°	824.7	803.9	769.5	742.3	709.5	679.0	644.6	611.8	576.5	538.9	502.1
35°	976.1	956.9	916.9	876.8	840.8	804.7	761.5	723.9	674.2	628.6	581.4
37.5°	1133.1	1098.6	1061.8	1018.6	973.7	930.4	877.6	825.6	768.7	719.1	659.8
40°	1312.4	1270.8	1240.4	1193.9	1130.7	1069.0	1020.2	955.3	884.0	817.6	747.9
42.5°	1558.3	1511.8	1457.4	1386.9	1341.3	1269.2	1205.9	1129.1	1035.4	960.9	876.8
45°	1842.5	1779.3	1726.4	1658.4	1603.1	1513.4	1439.7	1337.3	1243.6	1145.9	1043.4
47.5°	2166.9	2088.3	2011.5	1944.2	1856.1	1768.1	1674.4	1565.5	1445.4	1338.0	1216.3
50°	2539.2	2427.9	2321.4	2234.9	2114.0	2012.3	1910.6	1788.1	1655.1	1531.9	1393.3
52.5°	2953.2	2824.2	2683.3	2550.4	2410.3	2279.7	2157.2	2016.3	1868.1	1717.6	1563.1
55°	3452.8	3356.0	3190.2	3021.2	2833.8	2659.3	2501.5	2327.0	2146.8	1949.0	1786.5
57.5°	4235.2	4187.9	4049.4	3880.4	3636.2	3424.0	3156.5	2942.8	2681.7	2409.5	2199.6
60°	5295.4	5236.9	5159.3	5022.3	4828.5	4540.3	4245.6	3913.3	3516.1	3139.0	2781.0
62.5°	5860.7	5839.9	5776.6	5682.1	5501.2	5273.8	4976.7	4611.5	4163.1	3705.1	3248.6
63°	5877.5	5851.1	5796.6	5700.5	5541.2	5321.0	5029.5	4674.8	4236.0	3769.1	3303.1
65°	5650.1	5639.7	5584.4	5479.5	5370.7	5202.5	4976.7	4671.6	4303.2	3862.0	3398.4
67.5°	5011.1	4979.8	4895.0	4863.0	4786.9	4670.0	4497.8	4288.0	4024.6	3677.9	3277.4
70°	4238.4	4191.9	4085.4	4028.6	3935.7	3862.0	3757.1	3607.4	3444.8	3203.0	2904.3
72.5°	3419.2	3323.1	3225.4	3077.3	2947.6	2816.3	2700.1	2594.4	2415.8	2318.2	2091.6
75°	2220.5	2045.9	1878.6	1654.4	1452.6	1274.0	1100.2	1012.1	828.8	754.3	647.8
77.5°	1053.8	956.1	824.7	723.1	593.3	484.5	395.6	297.1	233.0	182.6	139.3
80°	850.4	767.9	688.6	596.6	498.9	398.0	305.1	228.2	161.8	112.1	79.3
82.5°	758.3	668.6	570.9	507.7	441.2	361.1	296.3	241.8	178.6	130.5	88.9
85°	294.7	248.3	191.4	156.1	121.7	100.1	90.5	62.5	48.8	38.4	29.6
87.5°	25.6	20.8	16.8	11.2	12.0	6.4	7.2	4.8	4.0	4.0	3.2
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0
2.5°	177.0	176.2	175.3	173.8	173.8	172.2	171.4	170.5	166.6	157.8	150.5
5°	185.8	184.2	182.6	180.1	178.6	176.2	174.5	172.2	163.4	146.5	132.1
7.5°	198.6	195.4	193.0	188.2	185.8	182.6	180.1	176.2	161.8	136.1	116.1
10°	213.8	208.2	204.2	198.6	193.8	189.8	185.8	180.1	160.1	124.9	101.7
12.5°	232.2	225.8	217.8	211.4	205.0	199.4	193.8	186.6	157.8	115.3	90.5
15°	250.6	241.0	235.4	226.6	217.8	209.8	201.8	195.4	158.6	104.9	80.9
17.5°	271.4	261.8	249.8	240.2	230.6	220.2	210.6	197.8	154.5	96.9	73.7
20°	291.5	277.9	266.6	254.6	241.0	228.2	216.2	205.0	151.3	88.9	67.3
22.5°	313.1	297.1	282.7	267.5	250.6	236.2	221.8	207.4	145.7	81.7	61.7
25°	339.5	321.1	300.3	281.9	264.3	246.6	228.2	210.6	140.1	75.3	57.7
27.5°	371.5	347.5	326.7	303.5	278.7	256.2	236.2	217.0	134.5	70.5	53.6
30°	412.4	384.4	354.7	325.1	298.7	273.1	245.0	221.0	128.9	65.7	49.6
32.5°	466.8	431.6	395.6	361.1	325.9	293.1	263.5	232.2	125.7	61.7	45.6
35°	538.9	493.3	449.2	406.0	363.6	323.5	285.1	249.8	125.7	56.9	40.8
37.5°	607.0	554.1	498.1	444.4	394.0	347.5	301.9	259.4	119.3	52.9	36.9
40°	680.7	617.4	551.7	488.5	427.6	370.0	317.9	269.1	113.7	48.0	32.8
42.5°	793.5	713.5	627.8	554.1	481.2	410.0	345.1	287.5	106.5	43.2	28.8
45°	941.7	840.0	739.1	649.4	556.5	469.3	392.4	321.1	104.9	39.2	24.8
47.5°	1100.2	980.1	861.6	747.1	638.2	536.5	444.4	358.8	104.9	35.2	21.6
50°	1258.0	1107.4	980.9	848.0	725.5	605.4	495.7	398.0	105.7	32.0	17.6
52.5°	1400.5	1239.6	1097.8	944.1	808.8	669.4	550.1	436.4	104.1	28.0	14.4
55°	1598.3	1409.3	1245.2	1075.4	916.9	759.9	624.6	494.1	104.9	24.8	12.0
57.5°	1962.6	1740.8	1543.1	1320.5	1137.9	935.3	771.1	612.6	114.5	20.8	8.8
60°	2485.5	2197.3	1919.4	1648.0	1415.7	1174.7	961.7	775.1	134.5	16.8	6.4
62.5°	2837.1	2459.9	2128.4	1828.9	1559.1	1306.8	1074.6	862.4	148.1	13.6	4.0
63°	2873.1	2483.1	2150.0	1840.9	1565.5	1313.2	1079.4	868.8	148.9	12.8	4.0
65°	2941.2	2523.2	2162.0	1843.3	1559.1	1304.4	1076.2	868.0	150.5	10.4	3.2
67.5°	2863.5	2461.5	2092.4	1774.5	1503.0	1252.4	1036.1	836.0	149.7	7.2	2.4
70°	2560.8	2227.7	1903.4	1607.1	1360.5	1133.9	943.3	762.3	137.7	4.8	1.6
72.5°	1880.2	1653.6	1402.1	1188.3	1025.0	851.2	726.3	572.5	106.5	3.2	0.8
75°	557.3	507.7	426.8	376.3	332.3	274.7	244.2	190.6	54.4	1.6	0.0
77.5°	111.3	100.9	90.5	82.5	77.7	66.5	63.3	52.1	22.4	0.8	0.0
80°	58.4	48.0	40.8	36.0	31.2	25.6	21.6	17.6	4.0	0.0	0.0
82.5°	56.1	37.6	27.2	22.4	19.2	15.2	12.0	8.8	2.4	0.0	0.0
85°	20.8	16.0	12.0	9.6	8.0	7.2	5.6	4.8	0.0	0.0	0.0
87.5°	3.2	2.4	2.4	1.6	1.6	0.8	0.8	0.8	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°	169.0	169.0	169.0	169.0	169.0	169.0	169.0
2.5°	143.3	136.9	133.7	129.7	129.7	128.9	130.5
5°	119.3	110.5	104.1	99.3	100.1	97.7	98.5
7.5°	100.9	92.1	86.5	83.3	82.5	81.7	81.7
10°	87.3	79.3	74.4	72.1	71.3	71.3	71.3
12.5°	77.7	69.6	65.7	64.0	64.0	63.3	63.3
15°	69.6	63.3	59.2	57.7	57.7	56.9	57.7
17.5°	63.3	56.9	53.6	52.1	52.1	51.3	51.3
20°	57.7	52.1	48.8	46.5	46.5	45.6	46.5
22.5°	52.9	47.3	43.2	41.7	40.8	40.0	40.8
25°	48.0	42.4	38.4	36.0	35.2	35.2	34.4
27.5°	44.0	38.4	33.6	31.2	30.4	30.4	29.6
30°	40.0	33.6	28.8	26.4	25.6	25.6	25.6
32.5°	36.0	28.8	24.8	22.4	21.6	21.6	21.6
35°	32.0	24.8	20.8	18.4	17.6	17.6	17.6
37.5°	27.2	20.8	16.0	14.4	13.6	12.8	12.8
40°	23.2	16.0	12.0	10.4	8.8	8.8	8.8
42.5°	19.2	12.8	8.8	6.4	5.6	4.8	5.6
45°	16.0	9.6	5.6	3.2	2.4	2.4	2.4
47.5°	12.8	6.4	2.4	0.8	0.8	0.8	0.8
50°	9.6	4.0	0.8	0.0	0.0	0.8	0.8
52.5°	7.2	2.4	0.0	0.0	0.0	0.0	0.0
55°	4.0	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)