

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: P163239

Luminaire Tested: **LDRL-SL2-E02-E-7060-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163239  
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-E02-E-7060-HSS  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (42) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3650 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

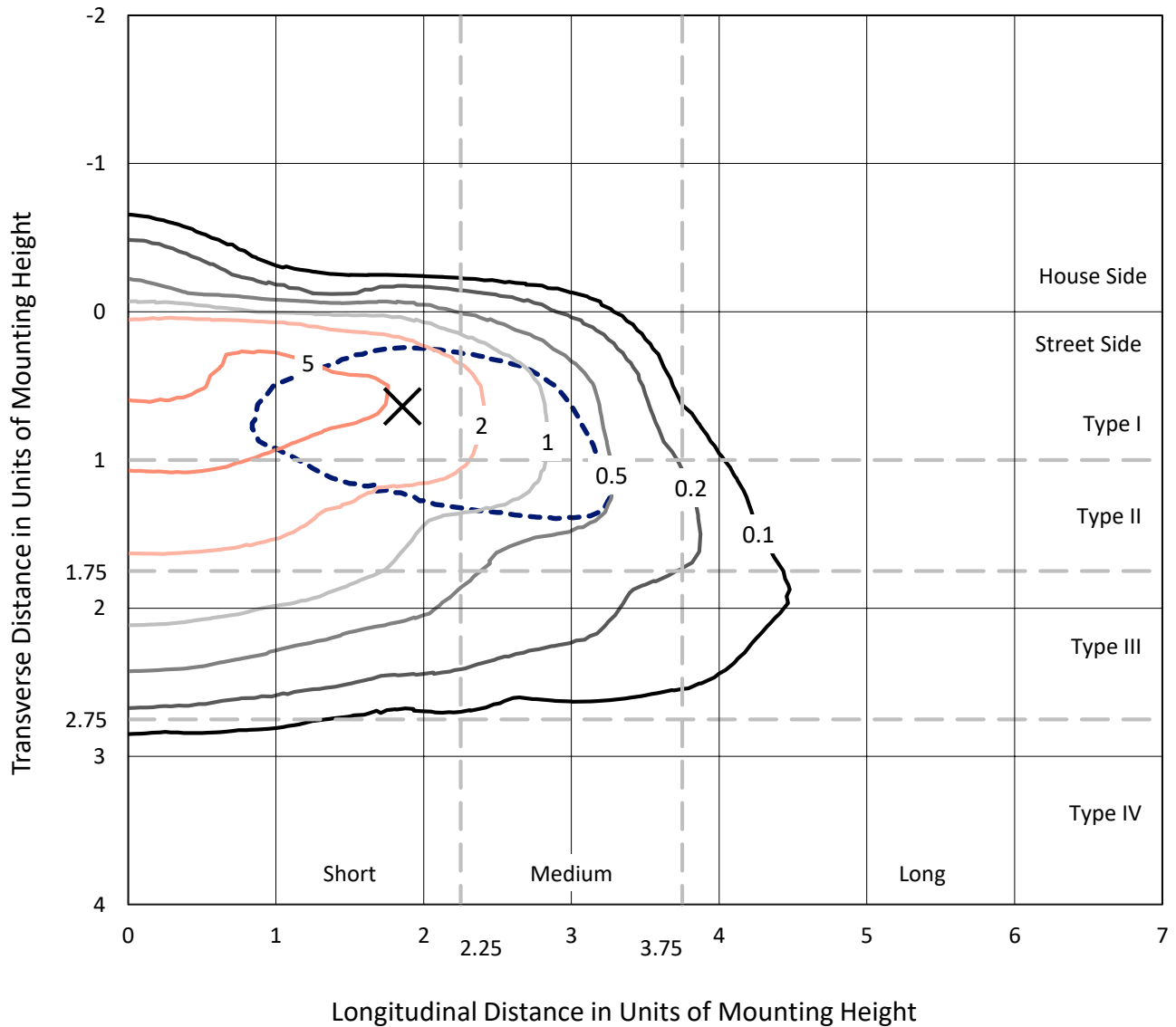
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

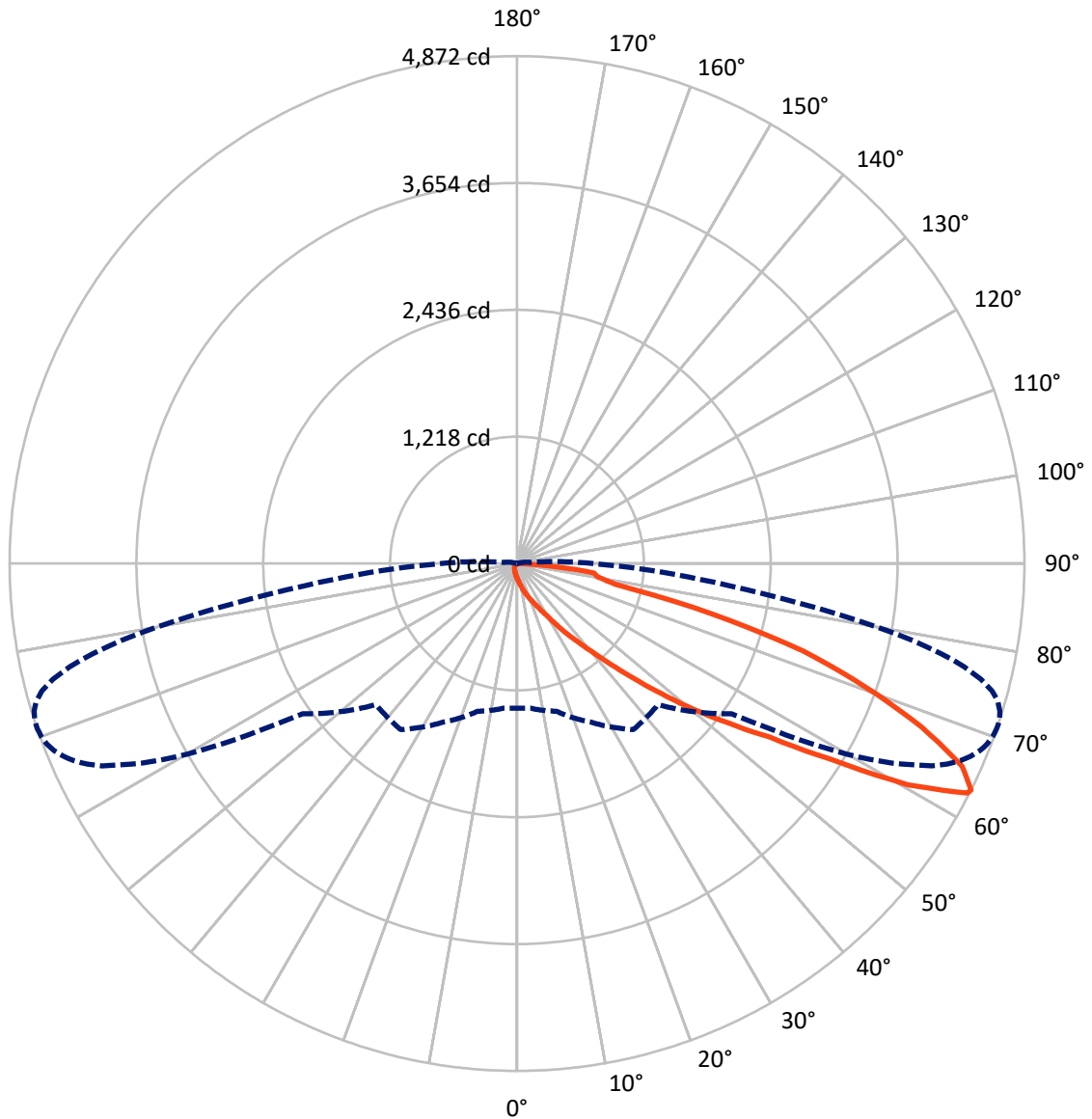
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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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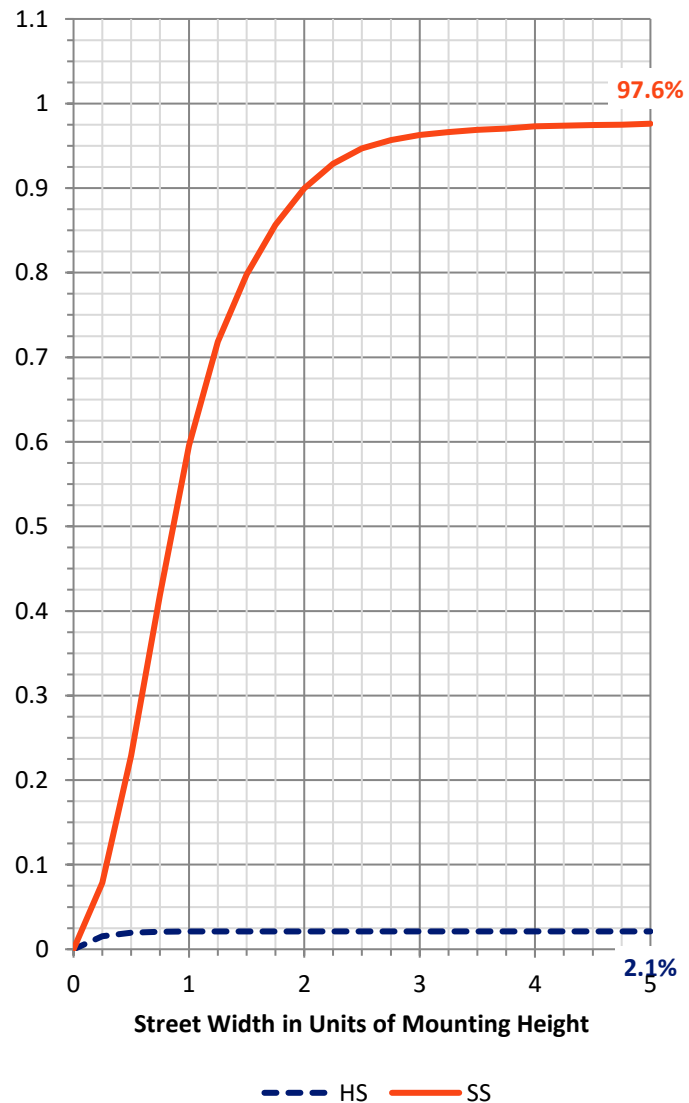
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	77.5	0.0	77.5
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	3572.5	0.0	3572.5
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	3650.0	0.0	3650.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.5	0.4
10°-20°	60.0	1.6
20°-30°	121.9	3.3
30°-40°	297.8	8.2
40°-50°	666.1	18.2
50°-60°	936.5	25.7
60°-70°	1101.3	30.2
70°-80°	397.7	10.9
80°-90°	53.2	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°	3650.0	100.0
0°-180°	3650.0	100.0



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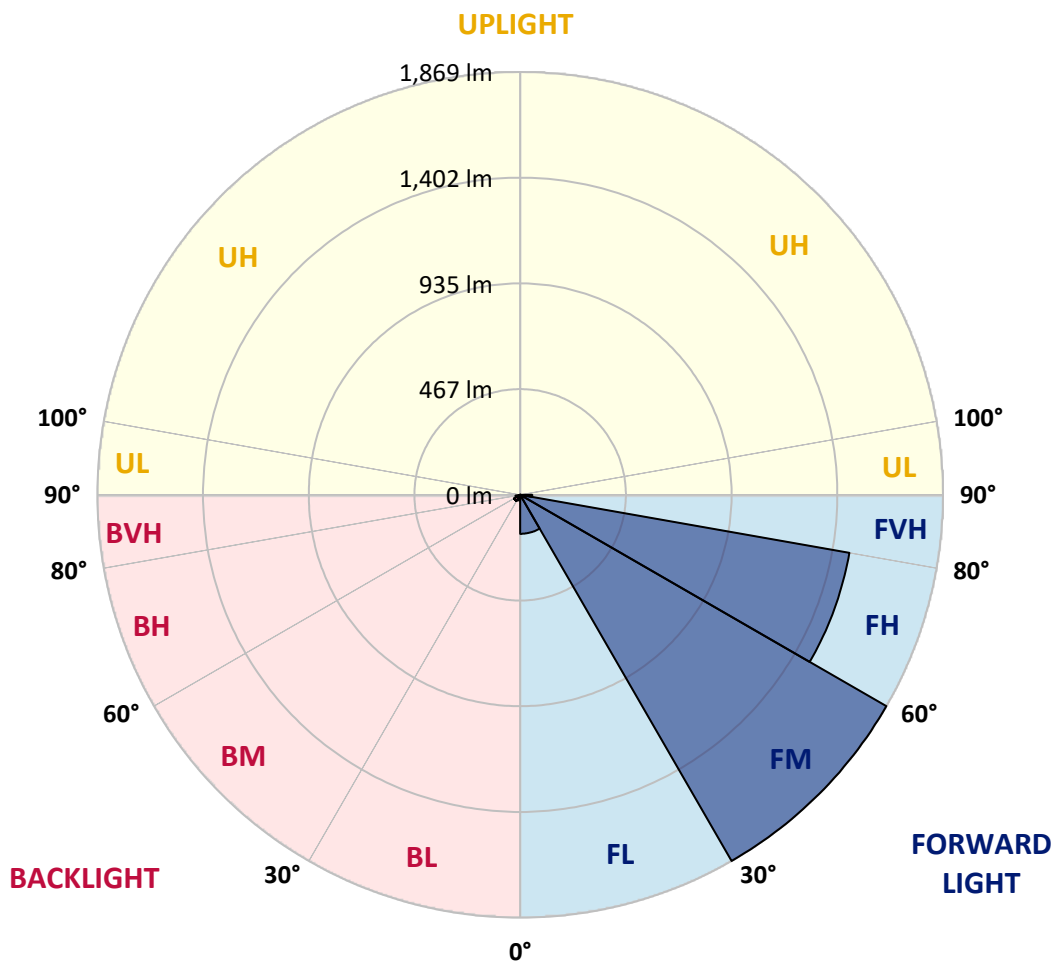
CATALOG NUMBER: LDRL-SL2-E02-E-7060-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.5	4.7			
FM (30°-60°)	1869.2	51.2			
FH (60°-80°)	1477.7	40.5			G1/1800
FVH (80°-90°)	53.1	1.5			G1/100
BL (0°-30°)	24.9	0.7	B0/110		
BM (30°-60°)	31.2	0.9	B0/220		
BH (60°-80°)	21.2	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°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	183.1	185.1	183.8	180.5	176.5	171.2	166.6	166.6	165.9	163.9	164.5
5°	240.2	240.8	238.2	230.3	223.0	211.7	199.1	197.8	196.4	194.4	193.8
7.5°	295.9	298.6	295.9	287.3	272.7	255.5	235.6	233.6	229.6	229.6	226.9
10°	353.0	353.0	350.4	340.4	327.1	302.6	277.4	274.1	269.4	268.1	264.1
12.5°	393.5	393.5	392.1	386.8	376.2	354.3	323.8	320.5	314.5	312.5	307.9
15°	409.4	409.4	410.1	414.7	415.4	405.4	373.6	370.9	365.0	359.6	357.7
17.5°	419.3	418.7	418.7	425.3	437.3	443.9	423.3	420.7	414.1	411.4	404.8
20°	441.3	439.9	435.9	435.9	447.2	470.4	470.4	469.8	462.5	460.5	457.2
22.5°	473.8	472.5	460.5	450.5	455.8	485.1	512.3	510.9	508.3	505.6	503.6
25°	526.8	522.2	501.6	472.5	467.8	499.0	544.1	547.4	549.4	549.4	550.7
27.5°	607.1	601.2	564.7	510.3	489.7	521.5	579.3	585.9	591.9	593.2	599.2
30°	718.6	708.0	655.6	576.0	528.9	554.7	631.0	638.3	646.9	649.6	658.9
32.5°	901.7	895.8	845.3	725.9	625.1	619.8	703.3	712.7	723.9	728.6	739.9
35°	1180.4	1181.8	1140.6	1033.1	893.8	820.8	832.7	840.7	844.7	858.6	864.6
37.5°	1369.6	1372.8	1382.2	1339.7	1240.2	1165.9	1072.3	1080.9	1060.3	1062.3	1063.0
40°	1473.1	1483.7	1538.1	1579.2	1571.3	1528.1	1453.2	1457.8	1419.3	1410.7	1368.9
42.5°	1542.1	1556.0	1642.9	1770.3	1835.4	1874.5	1857.3	1855.3	1825.4	1814.1	1778.9
45°	1585.2	1597.8	1707.3	1895.1	2045.0	2159.2	2206.3	2211.6	2186.4	2175.1	2145.9
47.5°	1583.2	1597.8	1715.2	1941.5	2162.5	2344.9	2477.7	2484.3	2499.6	2489.6	2491.6
50°	1495.6	1509.6	1627.6	1862.5	2128.0	2429.9	2672.8	2694.0	2718.5	2735.1	2743.1
52.5°	1389.5	1399.4	1504.2	1727.2	1980.7	2394.7	2788.2	2824.7	2861.2	2892.4	2914.3
55°	1350.3	1361.6	1443.9	1629.0	1862.5	2247.4	2841.9	2895.7	2947.5	2998.5	3040.4
57.5°	1370.9	1381.5	1440.5	1582.5	1792.2	2092.1	2857.2	2940.8	3025.7	3108.7	3191.0
60°	1446.5	1457.8	1508.2	1625.7	1773.6	2002.5	2797.5	2936.2	3077.5	3222.2	3358.2
62.5°	1416.6	1421.3	1495.6	1701.3	1906.3	1926.2	2580.5	2774.3	2989.9	3212.9	3432.5
63°	1388.1	1393.5	1469.1	1680.8	1946.9	1915.0	2513.5	2717.9	2945.5	3185.6	3424.5
65°	1258.7	1259.4	1317.1	1484.3	1901.7	1934.9	2214.9	2410.0	2671.4	2959.4	3261.3
67.5°	939.6	934.9	990.7	1118.1	1493.0	1935.6	1901.0	2010.5	2192.3	2447.8	2718.5
70°	333.1	325.8	416.0	592.6	930.3	1583.2	1633.6	1640.9	1691.4	1829.4	1999.3
72.5°	108.2	110.2	132.7	217.0	428.7	1065.6	1479.0	1456.5	1443.2	1442.5	1465.1
75°	43.1	43.8	53.1	96.2	192.4	513.6	1295.2	1307.8	1312.5	1319.1	1326.4
77.5°	20.6	22.6	29.8	53.7	95.6	254.1	927.0	1033.8	1094.9	1142.0	1170.5
80°	7.3	8.6	16.6	33.2	44.5	116.8	488.4	589.2	678.8	794.2	893.8
82.5°	0.0	0.0	3.3	23.2	24.5	47.1	200.4	234.9	268.7	348.3	447.2
85°	0.0	0.0	0.0	6.6	7.3	8.0	67.7	81.6	91.6	106.8	123.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	4.0	9.9	15.3
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	163.2	162.6	162.6	161.2	160.6	159.3	158.6	156.6	155.9	155.9	155.9
5°	193.1	190.4	189.1	185.8	183.8	183.1	179.8	178.5	176.5	177.1	173.9
7.5°	226.3	221.6	219.6	215.0	213.7	209.0	207.7	204.4	202.4	198.4	197.1
10°	262.8	256.8	253.5	246.2	244.2	240.8	236.9	232.9	229.6	225.6	223.6
12.5°	304.5	299.3	296.6	286.7	282.0	277.4	272.0	266.7	261.5	258.1	253.5
15°	353.7	345.1	342.4	333.1	325.2	319.2	311.9	305.2	301.3	294.6	290.0
17.5°	402.1	393.5	391.5	377.6	368.9	365.0	357.0	348.3	341.1	334.4	327.1
20°	450.5	444.6	439.3	426.0	416.7	410.1	399.4	390.8	384.9	375.6	366.3
22.5°	499.0	493.0	489.0	475.1	466.5	457.2	447.9	438.6	430.0	418.7	408.1
25°	548.8	544.8	542.8	530.2	522.2	513.6	504.3	493.7	483.0	470.4	459.2
27.5°	600.5	601.8	597.9	595.2	586.6	580.6	566.0	558.7	550.7	535.5	521.5
30°	666.2	670.2	668.9	670.8	665.5	661.6	650.3	641.0	631.7	617.1	601.2
32.5°	749.1	754.4	757.1	764.4	761.7	760.4	757.1	743.8	737.2	712.0	705.3
35°	877.2	874.5	885.8	891.8	889.1	887.8	883.8	876.5	868.6	850.6	834.1
37.5°	1043.8	1046.4	1050.4	1038.5	1030.5	1029.8	1017.9	1010.6	999.3	979.4	959.5
40°	1349.0	1332.4	1313.8	1263.4	1241.5	1228.9	1193.7	1183.8	1164.5	1137.3	1116.7
42.5°	1745.8	1729.2	1673.5	1589.2	1544.0	1481.7	1453.2	1418.0	1390.8	1346.3	1322.4
45°	2139.9	2092.1	2085.5	1987.3	1931.6	1849.3	1798.2	1739.1	1677.4	1619.0	1576.6
47.5°	2472.3	2461.8	2429.2	2369.5	2317.8	2248.7	2183.1	2092.1	2028.4	1945.5	1869.2
50°	2738.4	2737.8	2725.8	2691.3	2648.2	2592.5	2534.7	2457.8	2385.4	2283.9	2202.3
52.5°	2937.5	2948.1	2952.1	2941.5	2924.9	2875.8	2846.6	2782.2	2721.2	2634.9	2546.7
55°	3083.5	3122.6	3142.6	3165.1	3160.4	3143.2	3141.9	3100.1	3072.2	3003.9	2941.5
57.5°	3264.0	3328.3	3390.0	3499.5	3503.5	3542.0	3561.9	3581.8	3587.1	3559.9	3539.3
60°	3493.6	3624.9	3741.7	3970.6	4030.3	4124.6	4185.6	4252.0	4308.4	4313.0	4311.7
62.5°	3655.4	3857.8	4046.3	4386.0	4502.1	4610.9	4692.5	4756.9	4796.1	4835.9	4854.5
63°	3660.1	3881.7	4082.1	4432.4	4554.6	4658.1	4735.7	4795.4	4836.6	4860.5	4872.4
65°	3547.9	3816.7	4055.6	4404.6	4519.4	4623.5	4664.0	4703.2	4723.1	4732.4	4697.2
67.5°	3007.2	3270.0	3548.6	3938.8	4037.0	4161.7	4194.9	4214.8	4224.1	4222.1	4192.3
70°	2248.7	2469.1	2778.9	3224.8	3354.9	3476.9	3552.6	3585.1	3595.7	3592.4	3547.9
72.5°	1569.9	1699.3	1954.8	2451.1	2628.3	2784.9	2878.4	2926.9	2936.8	2916.9	2875.8
75°	1318.5	1325.1	1382.8	1654.2	1820.1	1987.3	2092.8	2123.3	2103.4	2043.1	1938.2
77.5°	1177.1	1191.7	1191.7	1232.2	1264.7	1311.2	1321.1	1246.8	1160.5	1049.0	958.8
80°	987.4	1038.5	1074.3	1104.1	1107.5	1098.2	1073.6	1031.8	965.4	880.5	786.3
82.5°	599.9	700.7	741.8	895.8	971.4	1022.5	1018.6	962.8	912.4	824.1	743.8
85°	151.3	163.2	177.1	230.3	258.1	315.2	351.0	367.6	373.6	343.0	310.5
87.5°	14.6	9.9	16.6	12.6	17.9	13.3	17.9	16.6	20.6	21.9	23.9
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°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	154.6	154.0	153.3	152.6	151.9	151.3	150.0	150.0	148.6	148.0	147.3
5°	171.9	170.5	169.9	168.5	166.6	165.2	163.2	160.6	158.6	157.9	156.6
7.5°	193.8	190.4	189.1	187.1	184.5	180.5	177.8	175.8	172.5	170.5	166.6
10°	218.3	215.0	211.0	207.0	203.0	198.4	195.1	192.4	187.1	184.5	179.8
12.5°	249.5	243.5	238.9	233.6	228.2	223.0	219.0	211.0	206.4	200.4	196.4
15°	281.4	276.0	270.7	264.1	256.1	247.5	243.5	236.2	230.3	220.9	215.6
17.5°	319.8	309.9	301.9	294.0	286.7	278.7	270.7	259.4	250.8	242.9	232.2
20°	357.7	345.7	337.1	326.5	315.8	303.2	294.0	286.0	274.1	263.4	252.1
22.5°	398.1	386.2	372.2	361.6	347.0	337.1	324.5	311.2	299.3	285.3	271.4
25°	447.2	434.6	418.7	404.8	388.2	374.2	359.0	343.7	329.1	313.2	295.3
27.5°	507.6	494.3	477.1	460.5	438.6	421.4	406.7	386.2	367.6	347.7	327.1
30°	583.9	569.3	548.1	524.2	502.3	483.0	462.5	435.3	414.7	390.8	364.3
32.5°	683.4	666.2	637.7	615.1	587.9	562.7	534.1	506.9	477.8	446.6	416.0
35°	808.9	792.9	759.8	726.6	696.7	666.8	631.0	599.9	558.7	520.9	481.7
37.5°	938.9	910.4	879.9	844.0	806.8	771.0	727.2	684.1	637.0	595.9	546.8
40°	1087.5	1053.0	1027.8	989.3	936.9	885.8	845.3	791.6	732.6	677.5	619.8
42.5°	1291.3	1252.8	1207.6	1149.2	1111.4	1051.7	999.3	935.6	857.9	796.3	726.6
45°	1526.8	1474.4	1430.6	1374.2	1328.4	1254.1	1193.0	1108.1	1030.5	949.5	864.6
47.5°	1795.6	1730.5	1666.8	1611.1	1538.1	1465.1	1387.5	1297.2	1197.7	1108.8	1007.9
50°	2104.1	2011.9	1923.6	1852.0	1751.8	1667.5	1583.2	1481.7	1371.5	1269.4	1154.6
52.5°	2447.1	2340.3	2223.5	2113.4	1997.3	1889.1	1787.6	1670.8	1548.0	1423.3	1295.2
55°	2861.2	2780.9	2643.5	2503.5	2348.3	2203.6	2072.9	1928.3	1778.9	1615.0	1480.3
57.5°	3509.5	3470.3	3355.5	3215.5	3013.1	2837.3	2615.7	2438.5	2222.2	1996.6	1822.7
60°	4388.0	4339.6	4275.2	4161.7	4001.2	3762.3	3518.1	3242.7	2913.6	2601.1	2304.5
62.5°	4856.5	4839.2	4786.8	4708.5	4558.5	4370.1	4123.9	3821.3	3449.8	3070.2	2692.0
63°	4870.4	4848.5	4803.4	4723.7	4591.7	4409.2	4167.7	3873.8	3510.1	3123.3	2737.1
65°	4682.0	4673.3	4627.5	4540.6	4450.4	4311.0	4123.9	3871.1	3565.9	3200.3	2816.1
67.5°	4152.4	4126.5	4056.2	4029.7	3966.6	3869.8	3727.1	3553.3	3335.0	3047.7	2715.9
70°	3512.1	3473.7	3385.4	3338.3	3261.3	3200.3	3113.3	2989.3	2854.5	2654.2	2406.7
72.5°	2833.3	2753.7	2672.8	2550.0	2442.5	2333.7	2237.4	2149.9	2001.9	1921.0	1733.2
75°	1840.0	1695.3	1556.7	1370.9	1203.7	1055.7	911.7	838.7	686.8	625.1	536.8
77.5°	873.2	792.3	683.4	599.2	491.7	401.5	327.8	246.2	193.1	151.3	115.5
80°	704.7	636.3	570.6	494.3	413.4	329.8	252.8	189.1	134.1	92.9	65.7
82.5°	628.4	554.1	473.1	420.7	365.6	299.3	245.5	200.4	148.0	108.2	73.6
85°	244.2	205.7	158.6	129.4	100.8	83.0	75.0	51.8	40.5	31.9	24.5
87.5°	21.2	17.2	13.9	9.3	9.9	5.3	6.0	4.0	3.3	3.3	2.7
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	146.7	146.0	145.3	144.0	144.0	142.7	142.0	141.3	138.0	130.7	124.7
5°	154.0	152.6	151.3	149.3	148.0	146.0	144.6	142.7	135.4	121.4	109.5
7.5°	164.5	161.9	159.9	155.9	154.0	151.3	149.3	146.0	134.1	112.8	96.2
10°	177.1	172.5	169.2	164.5	160.6	157.2	154.0	149.3	132.7	103.5	84.3
12.5°	192.4	187.1	180.5	175.2	169.9	165.2	160.6	154.6	130.7	95.6	75.0
15°	207.7	199.7	195.1	187.8	180.5	173.9	167.2	161.9	131.4	86.9	67.0
17.5°	224.9	217.0	207.0	199.1	191.1	182.5	174.5	163.9	128.1	80.3	61.0
20°	241.5	230.3	220.9	211.0	199.7	189.1	179.2	169.9	125.4	73.6	55.7
22.5°	259.4	246.2	234.2	221.6	207.7	195.7	183.8	171.9	120.8	67.7	51.1
25°	281.4	266.1	248.8	233.6	219.0	204.4	189.1	174.5	116.1	62.4	47.8
27.5°	307.9	288.0	270.7	251.5	230.9	212.3	195.7	179.8	111.5	58.4	44.5
30°	341.7	318.5	294.0	269.4	247.5	226.3	203.0	183.1	106.8	54.4	41.1
32.5°	386.8	357.7	327.8	299.3	270.1	242.9	218.3	192.4	104.2	51.1	37.8
35°	446.6	408.8	372.2	336.4	301.3	268.1	236.2	207.0	104.2	47.1	33.8
37.5°	503.0	459.2	412.7	368.2	326.5	288.0	250.2	215.0	98.9	43.8	30.5
40°	564.0	511.6	457.2	404.8	354.3	306.6	263.4	223.0	94.2	39.8	27.2
42.5°	657.6	591.2	520.2	459.2	398.8	339.7	286.0	238.2	88.2	35.8	23.9
45°	780.3	696.1	612.5	538.1	461.2	388.9	325.2	266.1	86.9	32.5	20.6
47.5°	911.7	812.2	714.0	619.1	528.9	444.6	368.2	297.3	86.9	29.2	17.9
50°	1042.4	917.7	812.8	702.7	601.2	501.6	410.7	329.8	87.6	26.6	14.6
52.5°	1160.5	1027.2	909.7	782.3	670.2	554.7	455.8	361.6	86.3	23.2	11.9
55°	1324.4	1167.8	1031.8	891.2	759.8	629.7	517.6	409.4	86.9	20.6	9.9
57.5°	1626.3	1442.5	1278.7	1094.2	942.9	775.0	639.0	507.6	94.9	17.2	7.3
60°	2059.6	1820.8	1590.5	1365.6	1173.1	973.4	796.9	642.3	111.5	13.9	5.3
62.5°	2350.9	2038.4	1763.7	1515.5	1291.9	1082.9	890.5	714.6	122.8	11.3	3.3
63°	2380.8	2057.6	1781.6	1525.5	1297.2	1088.2	894.4	720.0	123.4	10.6	3.3
65°	2437.2	2090.8	1791.6	1527.5	1291.9	1080.9	891.8	719.3	124.7	8.6	2.7
67.5°	2372.8	2039.7	1733.8	1470.4	1245.5	1037.8	858.6	692.7	124.1	6.0	2.0
70°	2122.0	1846.0	1577.2	1331.7	1127.4	939.6	781.6	631.7	114.1	4.0	1.3
72.5°	1558.0	1370.2	1161.9	984.7	849.3	705.3	601.8	474.4	88.2	2.7	0.7
75°	461.8	420.7	353.7	311.9	275.4	227.6	202.4	157.9	45.1	1.3	0.0
77.5°	92.2	83.6	75.0	68.3	64.4	55.1	52.4	43.1	18.6	0.7	0.0
80°	48.4	39.8	33.8	29.8	25.9	21.2	17.9	14.6	3.3	0.0	0.0
82.5°	46.5	31.2	22.6	18.6	15.9	12.6	9.9	7.3	2.0	0.0	0.0
85°	17.2	13.3	9.9	8.0	6.6	6.0	4.6	4.0	0.0	0.0	0.0
87.5°	2.7	2.0	2.0	1.3	1.3	0.7	0.7	0.7	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°	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	118.8	113.4	110.8	107.5	107.5	106.8	108.2
5°	98.9	91.6	86.3	82.3	83.0	80.9	81.6
7.5°	83.6	76.3	71.7	69.0	68.3	67.7	67.7
10°	72.3	65.7	61.7	59.7	59.1	59.1	59.1
12.5°	64.4	57.7	54.4	53.1	53.1	52.4	52.4
15°	57.7	52.4	49.1	47.8	47.8	47.1	47.8
17.5°	52.4	47.1	44.5	43.1	43.1	42.5	42.5
20°	47.8	43.1	40.5	38.5	38.5	37.8	38.5
22.5°	43.8	39.2	35.8	34.5	33.8	33.2	33.8
25°	39.8	35.2	31.9	29.8	29.2	29.2	28.5
27.5°	36.5	31.9	27.9	25.9	25.2	25.2	24.5
30°	33.2	27.9	23.9	21.9	21.2	21.2	21.2
32.5°	29.8	23.9	20.6	18.6	17.9	17.9	17.9
35°	26.6	20.6	17.2	15.3	14.6	14.6	14.6
37.5°	22.6	17.2	13.3	11.9	11.3	10.6	10.6
40°	19.2	13.3	9.9	8.6	7.3	7.3	7.3
42.5°	15.9	10.6	7.3	5.3	4.6	4.0	4.6
45°	13.3	8.0	4.6	2.7	2.0	2.0	2.0
47.5°	10.6	5.3	2.0	0.7	0.7	0.7	0.7
50°	8.0	3.3	0.7	0.0	0.0	0.7	0.7
52.5°	6.0	2.0	0.0	0.0	0.0	0.0	0.0
55°	3.3	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	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)