

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: P163254

Luminaire Tested: **LDRL-SL2-F03-E-7060-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163254  
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-7060-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) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4519.7 lumens  
Efficiency: N/A  
Efficacy: 57.7 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 - G2

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

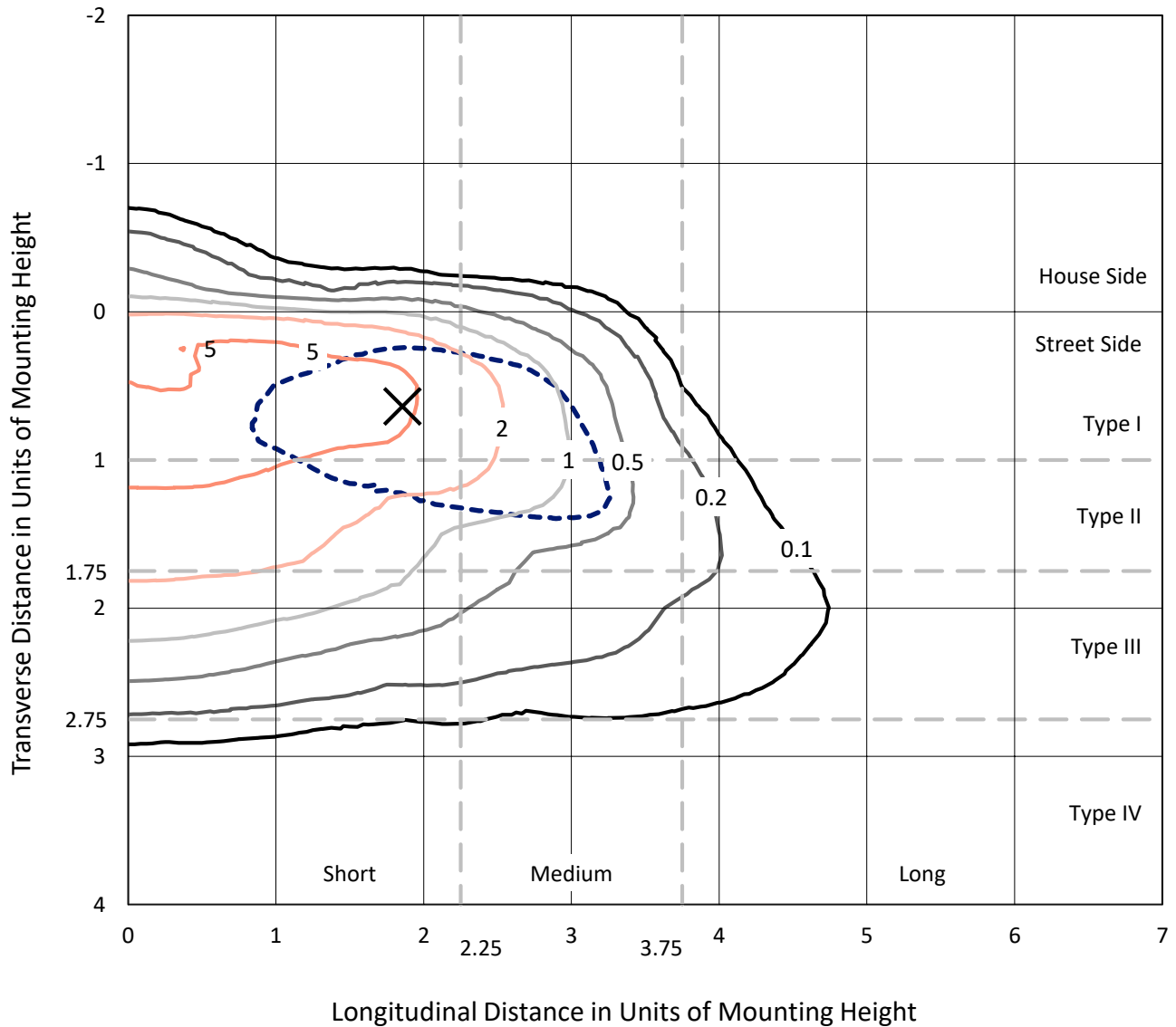


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

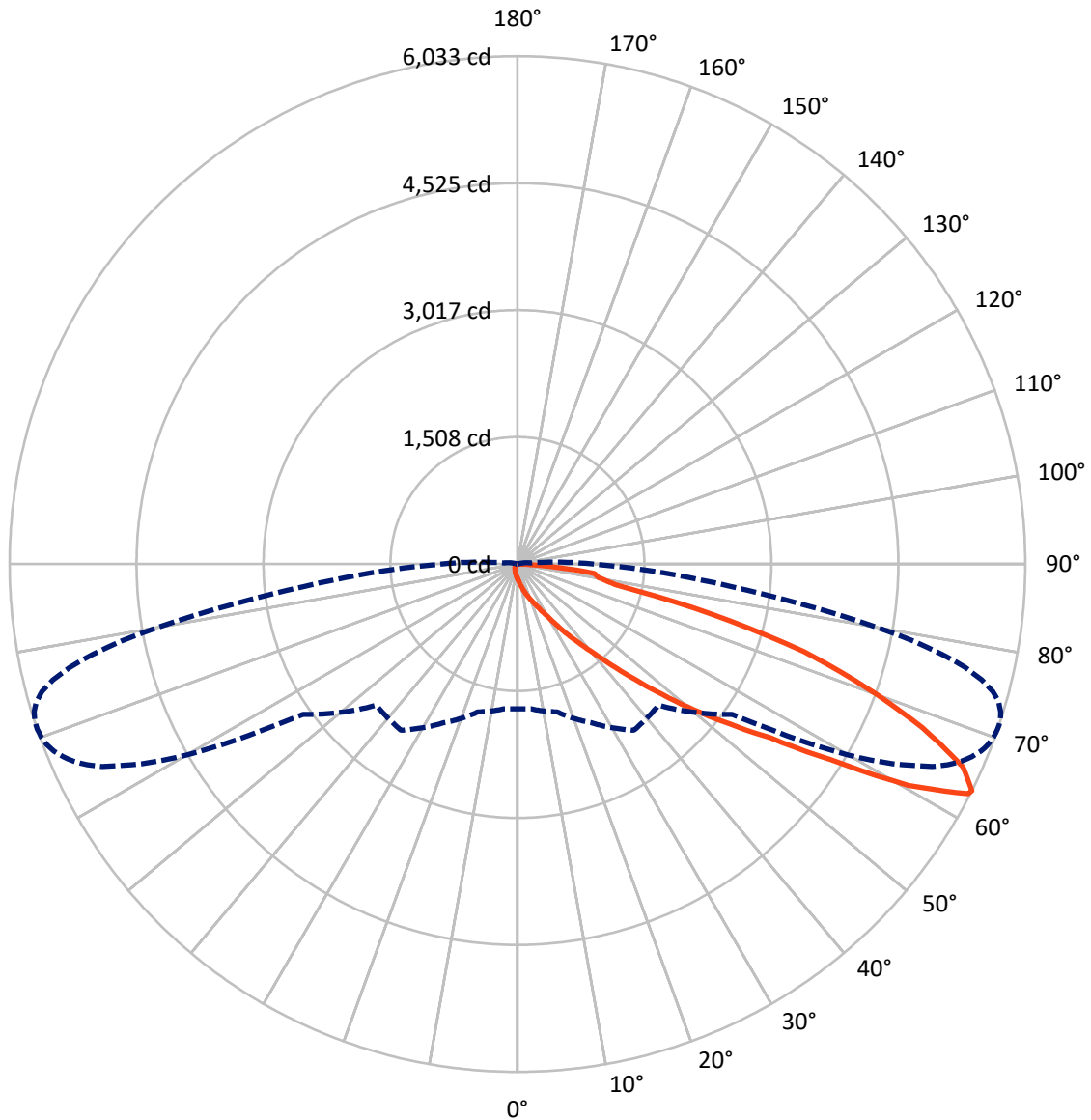


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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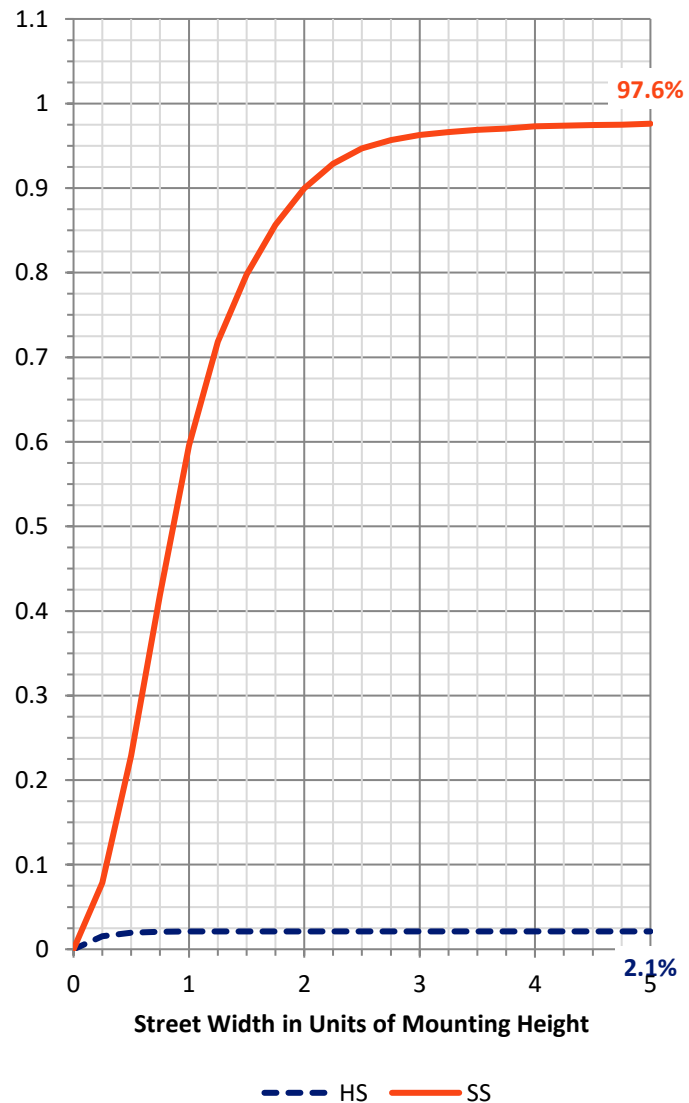
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	96.0	0.0	96.0
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	4423.7	0.0	4423.7
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	4519.7	0.0	4519.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.2	0.4
10°-20°	74.3	1.6
20°-30°	150.9	3.3
30°-40°	368.8	8.2
40°-50°	824.8	18.2
50°-60°	1159.7	25.7
60°-70°	1363.7	30.2
70°-80°	492.4	10.9
80°-90°	65.8	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°	4519.7	100.0
0°-180°	4519.7	100.0



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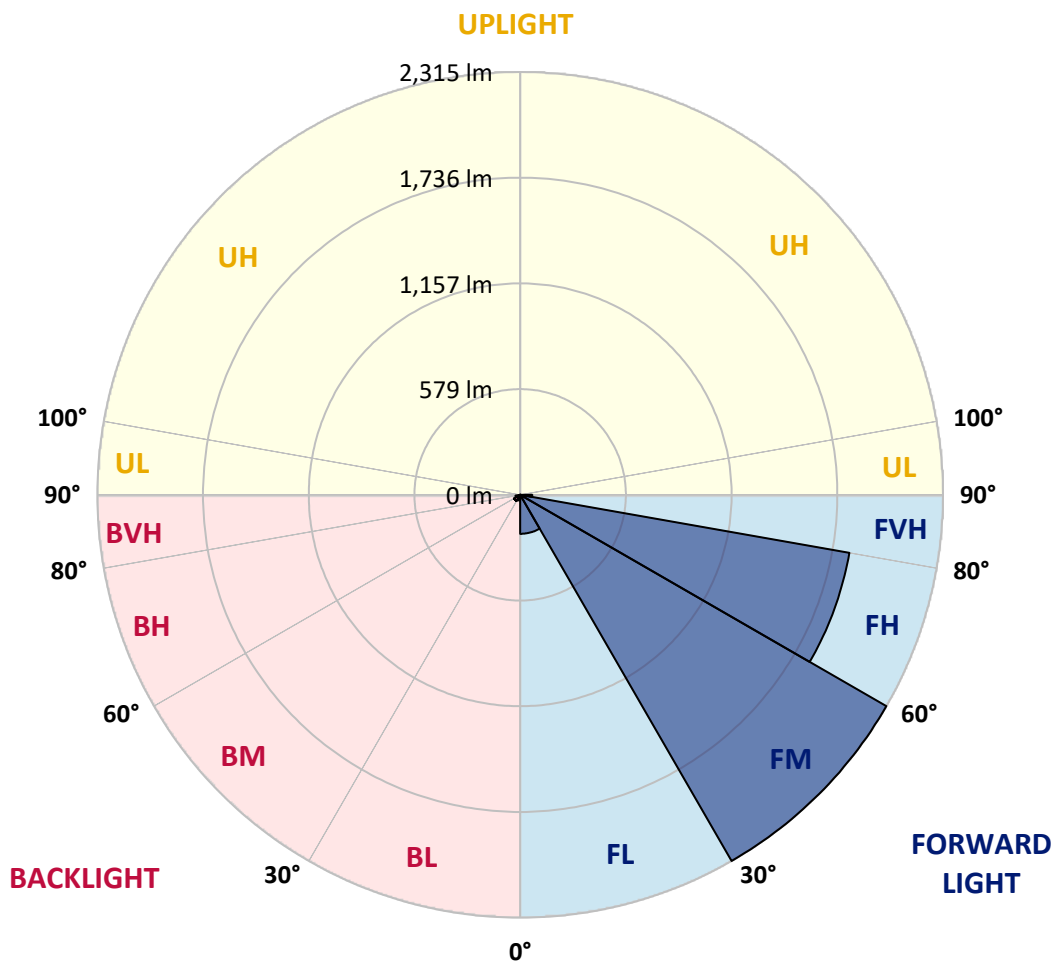
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.6	4.7			
FM	(30°-60°)	2314.6	51.2			
FH	(60°-80°)	1829.9	40.5			G2/5000
FVH	(80°-90°)	65.7	1.5			G1/100
BL	(0°-30°)	30.9	0.7	B0/110		
BM	(30°-60°)	38.7	0.9	B0/220		
BH	(60°-80°)	26.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4
2.5°	226.8	229.2	227.6	223.5	218.5	212.0	206.2	206.2	205.4	202.9	203.8
5°	297.4	298.2	295.0	285.1	276.1	262.1	246.5	244.9	243.2	240.8	239.9
7.5°	366.4	369.7	366.4	355.8	337.7	316.3	291.7	289.2	284.3	284.3	281.0
10°	437.1	437.1	433.8	421.5	405.1	374.7	343.5	339.4	333.6	331.9	327.0
12.5°	487.3	487.3	485.6	479.0	465.9	438.8	401.0	396.8	389.5	387.0	381.2
15°	507.0	507.0	507.8	513.5	514.3	502.0	462.6	459.3	451.9	445.3	442.9
17.5°	519.3	518.5	518.5	526.7	541.5	549.7	524.2	521.0	512.7	509.4	501.2
20°	546.4	544.7	539.8	539.8	553.8	582.6	582.6	581.7	572.7	570.3	566.1
22.5°	586.7	585.0	570.3	557.9	564.5	600.6	634.3	632.7	629.4	626.1	623.6
25°	652.4	646.6	621.2	585.0	579.2	617.9	673.8	677.8	680.3	680.3	682.0
27.5°	751.8	744.4	699.2	631.9	606.4	645.8	717.3	725.5	732.9	734.6	741.9
30°	889.8	876.7	811.8	713.2	654.9	686.9	781.4	790.4	801.1	804.4	815.9
32.5°	1116.6	1109.2	1046.8	898.9	774.0	767.5	870.9	882.5	896.4	902.2	916.2
35°	1461.7	1463.4	1412.4	1279.3	1106.8	1016.4	1031.2	1041.0	1046.0	1063.2	1070.6
37.5°	1695.9	1700.0	1711.5	1658.9	1535.7	1443.7	1327.8	1338.5	1313.0	1315.5	1316.3
40°	1824.1	1837.2	1904.6	1955.5	1945.7	1892.2	1799.4	1805.2	1757.5	1746.8	1695.0
42.5°	1909.5	1926.8	2034.4	2192.2	2272.7	2321.2	2299.8	2297.4	2260.4	2246.4	2202.8
45°	1962.9	1978.5	2114.1	2346.7	2532.3	2673.7	2732.0	2738.6	2707.4	2693.4	2657.2
47.5°	1960.5	1978.5	2124.0	2404.2	2677.8	2903.7	3068.1	3076.3	3095.2	3082.9	3085.3
50°	1852.0	1869.3	2015.5	2306.4	2635.0	3008.9	3309.6	3335.9	3366.3	3386.8	3396.7
52.5°	1720.6	1732.9	1862.7	2138.7	2452.6	2965.4	3452.6	3497.8	3543.0	3581.6	3608.7
55°	1672.1	1686.1	1787.9	2017.2	2306.4	2782.9	3519.1	3585.7	3649.8	3713.0	3764.8
57.5°	1697.5	1710.7	1783.8	1959.6	2219.3	2590.7	3538.0	3641.6	3746.7	3849.5	3951.4
60°	1791.2	1805.2	1867.6	2013.1	2196.3	2479.7	3464.1	3635.8	3810.8	3990.0	4158.4
62.5°	1754.2	1760.0	1852.0	2106.7	2360.6	2385.2	3195.4	3435.3	3702.4	3978.4	4250.4
63°	1718.9	1725.5	1819.2	2081.3	2410.8	2371.3	3112.4	3365.5	3647.3	3944.7	4240.5
65°	1558.7	1559.5	1631.0	1838.0	2354.9	2396.0	2742.7	2984.3	3308.0	3664.6	4038.4
67.5°	1163.5	1157.7	1226.8	1384.5	1848.7	2396.8	2354.0	2489.6	2714.7	3031.1	3366.3
70°	412.5	403.4	515.2	733.8	1151.9	1960.5	2022.9	2032.0	2094.4	2265.3	2475.7
72.5°	133.9	136.4	164.3	268.7	530.8	1319.6	1831.5	1803.5	1787.1	1786.3	1814.2
75°	53.4	54.2	65.7	119.1	238.3	636.0	1603.9	1619.5	1625.2	1633.4	1642.5
77.5°	25.5	28.0	36.9	66.5	118.3	314.7	1147.9	1280.1	1355.7	1414.1	1449.4
80°	9.0	10.7	20.5	41.1	55.0	144.6	604.8	729.6	840.5	983.5	1106.8
82.5°	0.0	0.0	4.1	28.8	30.4	58.3	248.1	290.9	332.7	431.3	553.8
85°	0.0	0.0	0.0	8.2	9.0	9.9	83.8	101.0	113.4	132.3	152.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.9	12.3	18.9
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4
2.5°	202.1	201.3	201.3	199.6	198.8	197.2	196.4	193.9	193.1	193.1	193.1
5°	239.1	235.8	234.1	230.1	227.6	226.8	222.7	221.0	218.5	219.4	215.3
7.5°	280.2	274.5	272.0	266.2	264.6	258.8	257.2	253.1	250.6	245.7	244.0
10°	325.4	318.0	313.9	304.8	302.4	298.2	293.3	288.4	284.3	279.4	276.9
12.5°	377.1	370.6	367.3	355.0	349.2	343.5	336.9	330.3	323.8	319.6	313.9
15°	438.0	427.3	424.0	412.5	402.6	395.2	386.2	378.0	373.1	364.8	359.1
17.5°	497.9	487.3	484.8	467.5	456.9	451.9	442.1	431.3	422.4	414.1	405.1
20°	557.9	550.5	543.9	527.5	516.0	507.8	494.6	484.0	476.6	465.0	453.6
22.5°	617.9	610.5	605.6	588.3	577.6	566.1	554.6	543.1	532.4	518.5	505.3
25°	679.5	674.6	672.1	656.5	646.6	636.0	624.5	611.3	598.2	582.6	568.6
27.5°	743.6	745.2	740.3	737.0	726.3	719.0	700.9	691.8	682.0	663.1	645.8
30°	824.9	829.9	828.2	830.7	824.1	819.2	805.2	793.7	782.2	764.1	744.4
32.5°	927.6	934.2	937.5	946.6	943.3	941.6	937.5	921.1	912.9	881.7	873.4
35°	1086.2	1082.9	1096.9	1104.3	1101.0	1099.4	1094.5	1085.4	1075.5	1053.3	1032.8
37.5°	1292.5	1295.8	1300.7	1285.9	1276.1	1275.2	1260.4	1251.4	1237.4	1212.8	1188.1
40°	1670.4	1649.9	1626.9	1564.4	1537.3	1521.7	1478.2	1465.8	1442.0	1408.3	1382.8
42.5°	2161.8	2141.2	2072.2	1967.9	1912.0	1834.8	1799.4	1755.9	1722.2	1667.1	1637.6
45°	2649.8	2590.7	2582.4	2460.9	2391.9	2290.0	2226.7	2153.5	2077.1	2004.8	1952.3
47.5°	3061.5	3048.4	3008.1	2934.2	2870.1	2784.6	2703.3	2590.7	2511.8	2409.1	2314.6
50°	3391.0	3390.1	3375.4	3332.6	3279.2	3210.2	3138.7	3043.4	2953.9	2828.1	2727.1
52.5°	3637.5	3650.6	3655.6	3642.4	3621.9	3561.1	3524.9	3445.2	3369.6	3262.8	3153.5
55°	3818.2	3866.7	3891.4	3919.3	3913.5	3892.2	3890.5	3838.8	3804.3	3719.6	3642.4
57.5°	4041.7	4121.4	4197.9	4333.4	4338.3	4386.0	4410.7	4435.3	4441.9	4408.2	4382.7
60°	4326.0	4488.7	4633.3	4916.8	4990.7	5107.4	5183.0	5265.2	5335.0	5340.7	5339.1
62.5°	4526.5	4777.1	5010.4	5431.2	5574.9	5709.7	5810.7	5890.5	5938.9	5988.2	6011.2
63°	4532.2	4806.7	5054.8	5488.6	5639.8	5768.0	5864.1	5938.1	5989.1	6018.6	6033.4
65°	4393.4	4726.2	5022.0	5454.1	5596.3	5725.3	5775.4	5823.9	5848.5	5860.0	5816.5
67.5°	3723.8	4049.1	4394.2	4877.3	4998.9	5153.4	5194.5	5219.2	5230.7	5228.2	5191.2
70°	2784.6	3057.4	3441.1	3993.2	4154.3	4305.4	4399.1	4439.4	4452.5	4448.4	4393.4
72.5°	1944.0	2104.2	2420.6	3035.2	3254.6	3448.5	3564.3	3624.3	3636.6	3612.0	3561.1
75°	1632.6	1640.9	1712.3	2048.4	2253.8	2460.9	2591.5	2629.3	2604.7	2529.9	2400.0
77.5°	1457.6	1475.7	1475.7	1525.8	1566.1	1623.6	1635.9	1543.9	1437.1	1299.0	1187.3
80°	1222.6	1285.9	1330.3	1367.2	1371.3	1359.9	1329.4	1277.7	1195.5	1090.3	973.6
82.5°	742.8	867.7	918.6	1109.2	1202.9	1266.2	1261.3	1192.2	1129.8	1020.5	921.1
85°	187.3	202.1	219.4	285.1	319.6	390.3	434.7	455.2	462.6	424.8	384.5
87.5°	18.1	12.3	20.5	15.6	22.2	16.4	22.2	20.5	25.5	27.1	29.6
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4
2.5°	191.5	190.6	189.8	189.0	188.2	187.3	185.7	185.7	184.0	183.2	182.4
5°	212.8	211.2	210.4	208.7	206.2	204.6	202.1	198.8	196.4	195.6	193.9
7.5°	239.9	235.8	234.1	231.7	228.4	223.5	220.2	217.7	213.6	211.2	206.2
10°	270.3	266.2	261.3	256.4	251.4	245.7	241.6	238.3	231.7	228.4	222.7
12.5°	309.0	301.5	295.8	289.2	282.6	276.1	271.1	261.3	255.5	248.1	243.2
15°	348.4	341.8	335.2	327.0	317.1	306.5	301.5	292.5	285.1	273.6	267.0
17.5°	396.0	383.7	373.9	364.0	355.0	345.1	335.2	321.3	310.6	300.7	287.6
20°	442.9	428.1	417.4	404.3	391.1	375.5	364.0	354.1	339.4	326.2	312.2
22.5°	493.0	478.2	460.9	447.8	429.7	417.4	401.8	385.4	370.6	353.3	336.1
25°	553.8	538.2	518.5	501.2	480.6	463.4	444.5	425.6	407.6	387.8	365.6
27.5°	628.5	612.1	590.8	570.3	543.1	521.8	503.7	478.2	455.2	430.5	405.1
30°	723.1	705.0	678.7	649.1	622.0	598.2	572.7	539.0	513.5	484.0	451.1
32.5°	846.3	824.9	789.6	761.7	728.0	696.8	661.4	627.7	591.6	553.0	515.2
35°	1001.6	981.9	940.8	899.7	862.7	825.7	781.4	742.8	691.8	645.0	596.5
37.5°	1162.7	1127.3	1089.5	1045.2	999.1	954.7	900.5	847.1	788.8	737.9	677.0
40°	1346.7	1304.0	1272.7	1225.1	1160.2	1096.9	1046.8	980.3	907.1	838.9	767.5
42.5°	1598.9	1551.3	1495.4	1423.1	1376.3	1302.3	1237.4	1158.5	1062.4	986.0	899.7
45°	1890.6	1825.7	1771.5	1701.7	1644.9	1552.9	1477.3	1372.2	1276.1	1175.8	1070.6
47.5°	2223.4	2142.9	2064.0	1995.0	1904.6	1814.2	1718.1	1606.4	1483.1	1373.0	1248.1
50°	2605.5	2491.3	2382.0	2293.3	2169.2	2064.8	1960.5	1834.8	1698.4	1571.9	1429.7
52.5°	3030.3	2898.0	2753.4	2617.0	2473.2	2339.3	2213.6	2068.9	1916.9	1762.4	1603.9
55°	3543.0	3443.6	3273.5	3100.1	2907.8	2728.7	2566.8	2387.7	2202.8	1999.9	1833.1
57.5°	4345.8	4297.3	4155.1	3981.7	3731.1	3513.4	3238.9	3019.6	2751.7	2472.4	2257.1
60°	5433.6	5373.6	5293.9	5153.4	4954.6	4658.8	4356.4	4015.4	3607.9	3220.9	2853.6
62.5°	6013.7	5992.3	5927.4	5830.4	5644.8	5411.4	5106.6	4731.9	4271.8	3801.8	3333.4
63°	6030.9	6003.9	5947.9	5849.3	5685.8	5459.9	5160.8	4796.8	4346.6	3867.5	3389.3
65°	5797.6	5786.9	5730.2	5622.6	5510.9	5338.3	5106.6	4793.5	4415.6	3962.8	3487.1
67.5°	5141.9	5109.8	5022.8	4989.9	4911.8	4791.9	4615.2	4400.0	4129.6	3773.9	3363.0
70°	4349.0	4301.4	4192.1	4133.8	4038.4	3962.8	3855.2	3701.6	3534.7	3286.6	2980.1
72.5°	3508.5	3409.9	3309.6	3157.6	3024.5	2889.8	2770.6	2662.1	2478.9	2378.7	2146.2
75°	2278.5	2099.3	1927.6	1697.5	1490.5	1307.3	1129.0	1038.5	850.4	774.0	664.7
77.5°	1081.3	981.1	846.3	741.9	608.8	497.1	405.9	304.8	239.1	187.3	143.0
80°	872.6	788.0	706.6	612.1	511.9	408.4	313.0	234.1	166.0	115.0	81.3
82.5°	778.1	686.1	585.9	521.0	452.7	370.6	304.0	248.1	183.2	133.9	91.2
85°	302.4	254.7	196.4	160.2	124.9	102.7	92.9	64.1	50.1	39.4	30.4
87.5°	26.3	21.3	17.2	11.5	12.3	6.6	7.4	4.9	4.1	4.1	3.3
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°	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4	173.4
2.5°	181.6	180.8	179.9	178.3	178.3	176.7	175.9	175.0	170.9	161.9	154.5
5°	190.6	189.0	187.3	184.8	183.2	180.8	179.1	176.7	167.6	150.3	135.5
7.5°	203.8	200.5	198.0	193.1	190.6	187.3	184.8	180.8	166.0	139.7	119.1
10°	219.4	213.6	209.5	203.8	198.8	194.7	190.6	184.8	164.3	128.2	104.3
12.5°	238.3	231.7	223.5	216.9	210.4	204.6	198.8	191.5	161.9	118.3	92.9
15°	257.2	247.3	241.6	232.5	223.5	215.3	207.1	200.5	162.7	107.6	83.0
17.5°	278.5	268.7	256.4	246.5	236.6	226.0	216.1	202.9	158.6	99.4	75.6
20°	299.1	285.1	273.6	261.3	247.3	234.1	221.8	210.4	155.3	91.2	69.0
22.5°	321.3	304.8	290.1	274.5	257.2	242.4	227.6	212.8	149.5	83.8	63.3
25°	348.4	329.5	308.1	289.2	271.1	253.1	234.1	216.1	143.8	77.3	59.2
27.5°	381.2	356.6	335.2	311.4	285.9	262.9	242.4	222.7	138.0	72.3	55.0
30°	423.2	394.4	364.0	333.6	306.5	280.2	251.4	226.8	132.3	67.4	50.9
32.5°	479.0	442.9	405.9	370.6	334.4	300.7	270.3	238.3	129.0	63.3	46.8
35°	553.0	506.2	460.9	416.6	373.1	331.9	292.5	256.4	129.0	58.3	41.9
37.5°	622.8	568.6	511.1	456.0	404.3	356.6	309.8	266.2	122.4	54.2	37.8
40°	698.4	633.5	566.1	501.2	438.8	379.6	326.2	276.1	116.7	49.3	33.7
42.5°	814.3	732.1	644.2	568.6	493.8	420.7	354.1	295.0	109.3	44.4	29.6
45°	966.3	861.9	758.4	666.4	571.1	481.5	402.6	329.5	107.6	40.3	25.5
47.5°	1129.0	1005.7	884.1	766.6	654.9	550.5	456.0	368.1	107.6	36.1	22.2
50°	1290.8	1136.3	1006.5	870.1	744.4	621.2	508.6	408.4	108.5	32.9	18.1
52.5°	1437.1	1271.9	1126.5	968.7	829.9	686.9	564.5	447.8	106.8	28.8	14.8
55°	1640.0	1446.1	1277.7	1103.5	940.8	779.8	640.9	507.0	107.6	25.5	12.3
57.5°	2013.9	1786.3	1583.3	1354.9	1167.6	959.7	791.2	628.5	117.5	21.3	9.0
60°	2550.4	2254.6	1969.5	1691.0	1452.7	1205.4	986.8	795.4	138.0	17.2	6.6
62.5°	2911.1	2524.1	2184.0	1876.6	1599.8	1341.0	1102.6	884.9	152.0	14.0	4.1
63°	2948.1	2547.9	2206.1	1889.0	1606.4	1347.5	1107.6	891.5	152.8	13.2	4.1
65°	3018.0	2589.1	2218.5	1891.4	1599.8	1338.5	1104.3	890.6	154.5	10.7	3.3
67.5°	2938.2	2525.8	2147.0	1820.8	1542.3	1285.0	1063.2	857.8	153.6	7.4	2.4
70°	2627.6	2285.8	1953.1	1649.1	1396.0	1163.5	967.9	782.2	141.3	4.9	1.6
72.5°	1929.2	1696.7	1438.7	1219.3	1051.7	873.4	745.2	587.5	109.3	3.3	0.8
75°	571.9	521.0	438.0	386.2	341.0	281.8	250.6	195.6	55.9	1.6	0.0
77.5°	114.2	103.5	92.9	84.6	79.7	68.2	64.9	53.4	23.0	0.8	0.0
80°	60.0	49.3	41.9	36.9	32.0	26.3	22.2	18.1	4.1	0.0	0.0
82.5°	57.5	38.6	28.0	23.0	19.7	15.6	12.3	9.0	2.4	0.0	0.0
85°	21.3	16.4	12.3	9.9	8.2	7.4	5.7	4.9	0.0	0.0	0.0
87.5°	3.3	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°	173.4	173.4	173.4	173.4	173.4	173.4	173.4
2.5°	147.1	140.5	137.2	133.1	133.1	132.3	133.9
5°	122.4	113.4	106.8	101.9	102.7	100.2	101.0
7.5°	103.5	94.5	88.7	85.4	84.6	83.8	83.8
10°	89.6	81.3	76.4	73.9	73.1	73.1	73.1
12.5°	79.7	71.5	67.4	65.7	65.7	64.9	64.9
15°	71.5	64.9	60.8	59.2	59.2	58.3	59.2
17.5°	64.9	58.3	55.0	53.4	53.4	52.6	52.6
20°	59.2	53.4	50.1	47.7	47.7	46.8	47.7
22.5°	54.2	48.5	44.4	42.7	41.9	41.1	41.9
25°	49.3	43.6	39.4	36.9	36.1	36.1	35.3
27.5°	45.2	39.4	34.5	32.0	31.2	31.2	30.4
30°	41.1	34.5	29.6	27.1	26.3	26.3	26.3
32.5°	36.9	29.6	25.5	23.0	22.2	22.2	22.2
35°	32.9	25.5	21.3	18.9	18.1	18.1	18.1
37.5°	28.0	21.3	16.4	14.8	14.0	13.2	13.2
40°	23.8	16.4	12.3	10.7	9.0	9.0	9.0
42.5°	19.7	13.2	9.0	6.6	5.7	4.9	5.7
45°	16.4	9.9	5.7	3.3	2.4	2.4	2.4
47.5°	13.2	6.6	2.4	0.8	0.8	0.8	0.8
50°	9.9	4.1	0.8	0.0	0.0	0.8	0.8
52.5°	7.4	2.4	0.0	0.0	0.0	0.0	0.0
55°	4.1	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)