

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: P163251

Luminaire Tested: **LDRL-SL2-F03-E-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163251  
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-7030-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4023 lumens  
Efficiency: N/A  
Efficacy: 51.4 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

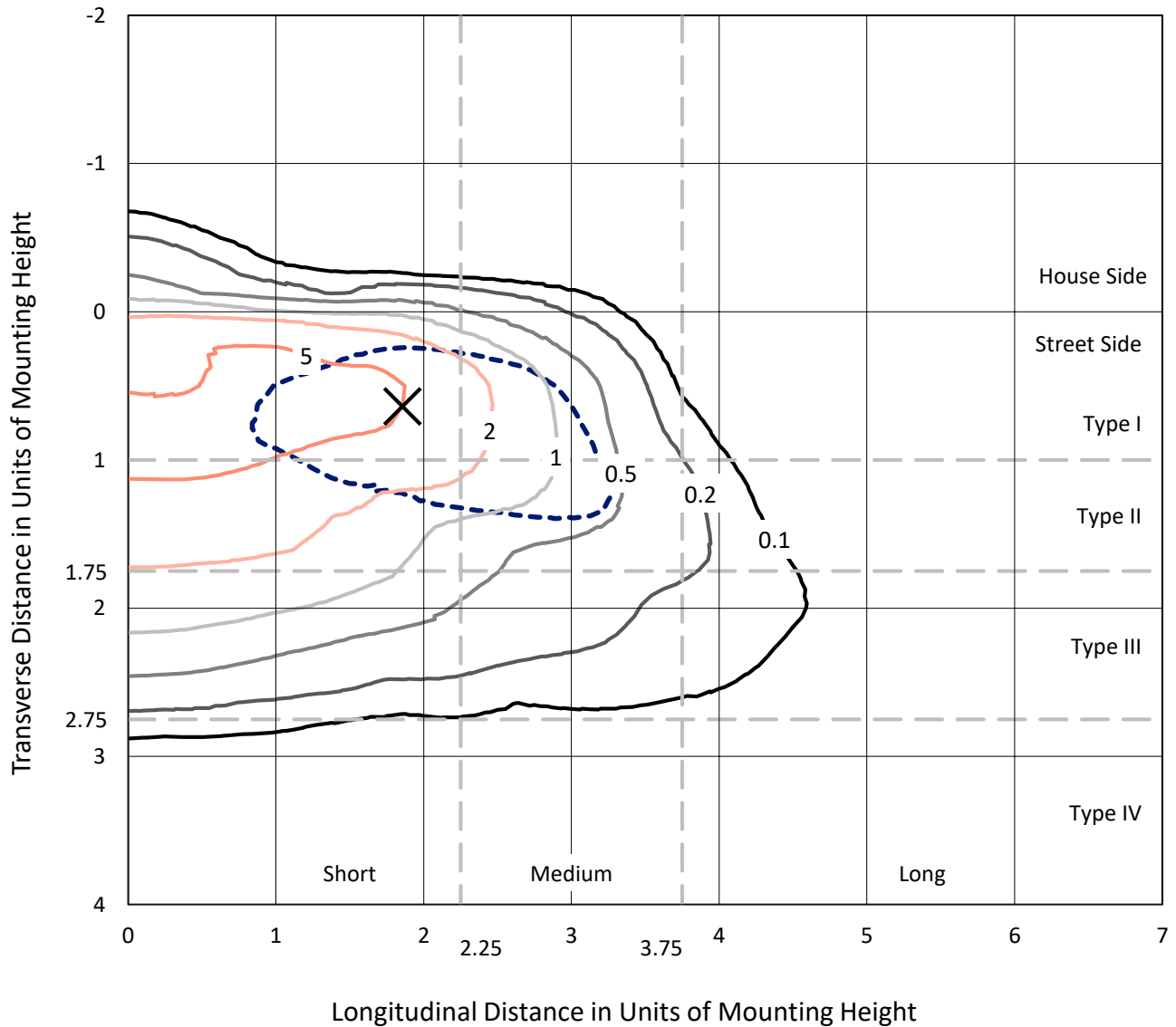
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

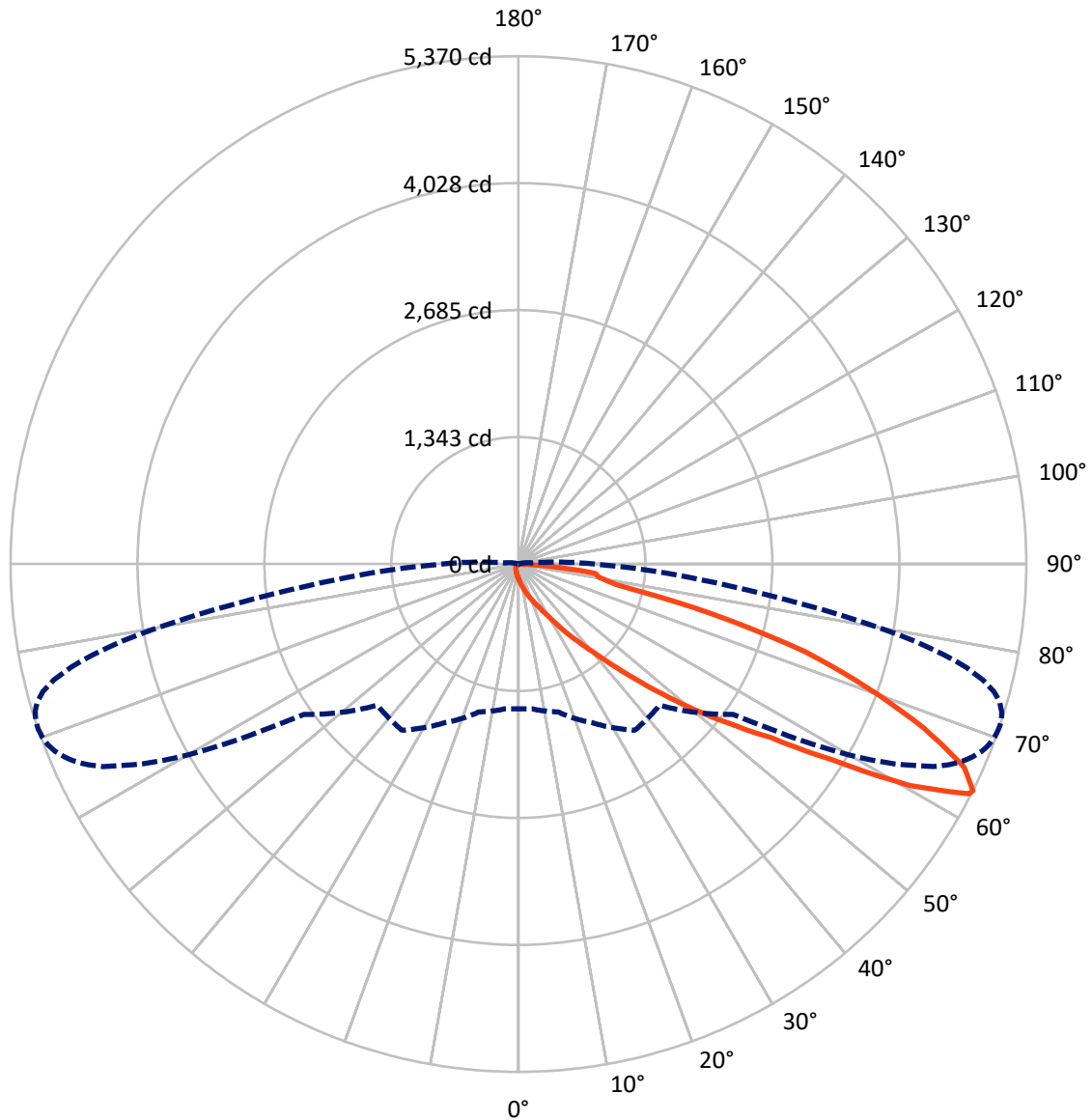
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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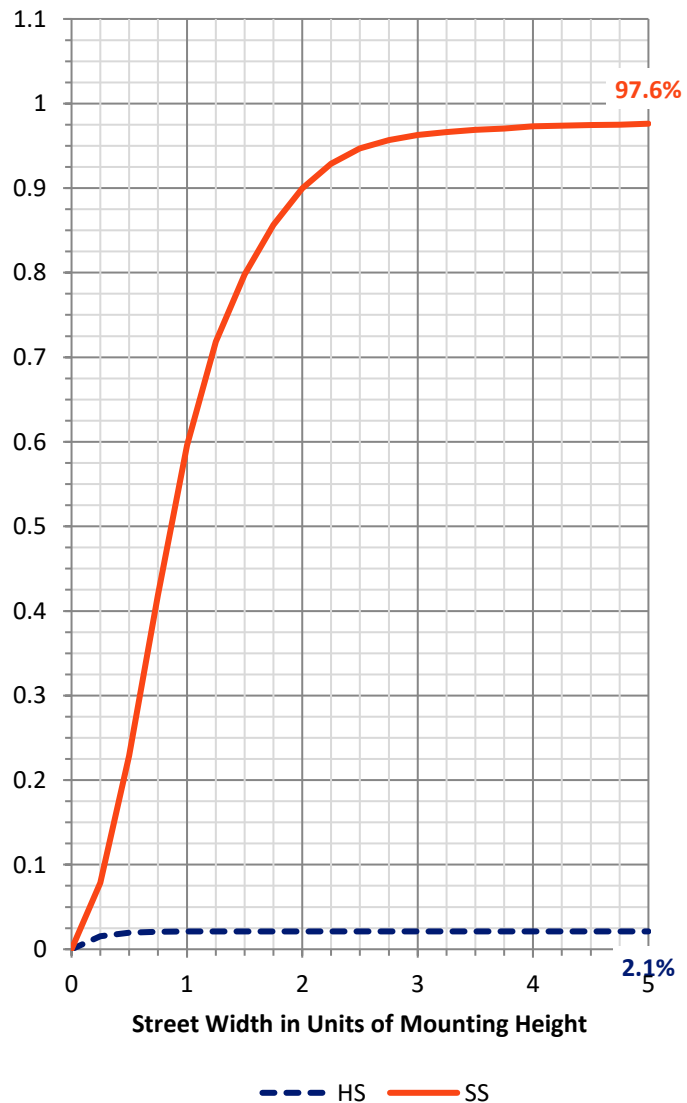
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	85.4	0.0	85.4
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	3937.6	0.0	3937.6
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	4023.0	0.0	4023.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.1	0.4
10°-20°	66.1	1.6
20°-30°	134.4	3.3
30°-40°	328.3	8.2
40°-50°	734.1	18.2
50°-60°	1032.3	25.7
60°-70°	1213.9	30.2
70°-80°	438.3	10.9
80°-90°	58.6	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°	4023.0	100.0
0°-180°	4023.0	100.0



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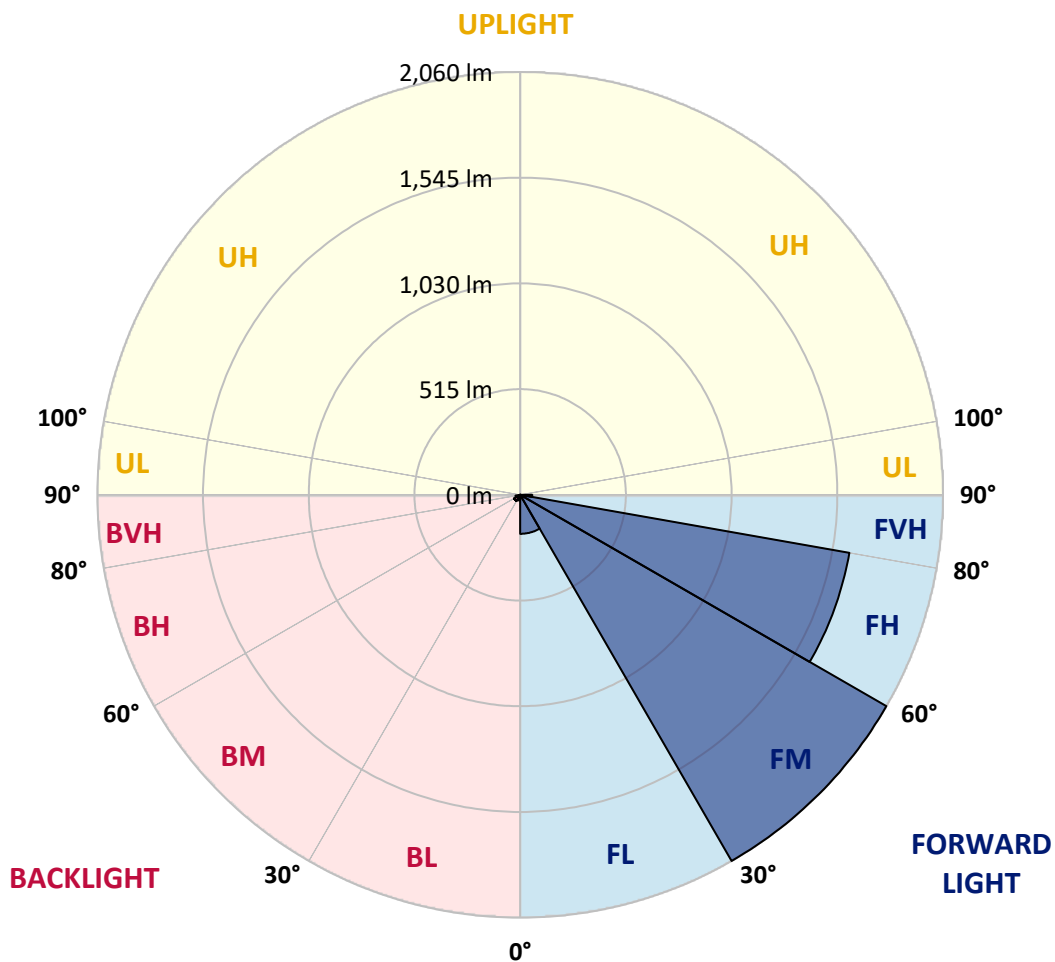
CATALOG NUMBER: LDRL-SL2-F03-E-7030-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	190.1	4.7			
FM	(30°-60°)	2060.3	51.2			
FH	(60°-80°)	1628.8	40.5			G1/1800
FVH	(80°-90°)	58.5	1.5			G1/100
BL	(0°-30°)	27.5	0.7	B0/110		
BM	(30°-60°)	34.4	0.9	B0/220		
BH	(60°-80°)	23.4	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°	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3
2.5°	201.9	204.0	202.6	198.9	194.5	188.7	183.6	183.6	182.9	180.6	181.4
5°	264.7	265.5	262.6	253.8	245.7	233.3	219.4	218.0	216.5	214.3	213.6
7.5°	326.2	329.1	326.2	316.7	300.6	281.6	259.6	257.5	253.1	253.1	250.1
10°	389.1	389.1	386.2	375.2	360.6	333.5	305.7	302.1	297.0	295.5	291.1
12.5°	433.7	433.7	432.2	426.4	414.7	390.6	356.9	353.2	346.7	344.5	339.3
15°	451.3	451.3	452.0	457.1	457.8	446.9	411.8	408.8	402.3	396.4	394.2
17.5°	462.2	461.5	461.5	468.8	482.0	489.3	466.6	463.7	456.4	453.4	446.2
20°	486.4	484.9	480.5	480.5	492.9	518.5	518.5	517.8	509.8	507.6	503.9
22.5°	522.2	520.8	507.6	496.6	502.4	534.6	564.6	563.1	560.2	557.3	555.1
25°	580.7	575.6	552.9	520.8	515.6	550.0	599.7	603.4	605.6	605.6	607.0
27.5°	669.2	662.6	622.4	562.4	539.8	574.9	638.5	645.8	652.4	653.8	660.4
30°	792.1	780.4	722.6	634.8	582.9	611.4	695.5	703.6	713.1	716.0	726.2
32.5°	993.9	987.4	931.8	800.1	689.0	683.1	775.2	785.5	797.9	803.0	815.5
35°	1301.1	1302.6	1257.2	1138.7	985.1	904.7	917.9	926.6	931.0	946.4	953.0
37.5°	1509.6	1513.2	1523.4	1476.6	1366.9	1285.0	1181.9	1191.4	1168.7	1170.9	1171.7
40°	1623.6	1635.3	1695.3	1740.6	1731.9	1684.3	1601.7	1606.8	1564.4	1554.9	1508.8
42.5°	1699.7	1715.0	1810.9	1951.3	2023.0	2066.1	2047.1	2044.9	2012.0	1999.5	1960.8
45°	1747.2	1761.1	1881.8	2088.8	2254.1	2379.9	2431.8	2437.6	2409.9	2397.4	2365.2
47.5°	1745.0	1761.1	1890.6	2140.0	2383.5	2584.6	2730.9	2738.2	2755.0	2744.1	2746.3
50°	1648.5	1663.9	1794.0	2052.9	2345.5	2678.3	2946.0	2969.3	2996.4	3014.7	3023.5
52.5°	1531.5	1542.4	1658.0	1903.7	2183.1	2639.5	3073.2	3113.4	3153.7	3188.0	3212.1
55°	1488.3	1500.8	1591.4	1795.5	2052.9	2477.1	3132.4	3191.7	3248.7	3305.0	3351.1
57.5°	1511.0	1522.7	1587.8	1744.3	1975.4	2306.0	3149.3	3241.4	3335.0	3426.4	3517.2
60°	1594.4	1606.8	1662.4	1791.9	1954.9	2207.2	3083.4	3236.3	3392.1	3551.5	3701.5
62.5°	1561.4	1566.6	1648.5	1875.2	2101.2	2123.1	2844.3	3057.8	3295.5	3541.3	3783.3
63°	1530.0	1535.9	1619.3	1852.6	2145.9	2110.7	2770.4	2995.7	3246.5	3511.3	3774.6
65°	1387.4	1388.1	1451.8	1636.0	2096.1	2132.7	2441.3	2656.3	2944.5	3261.9	3594.6
67.5°	1035.6	1030.5	1091.9	1232.4	1645.6	2133.4	2095.4	2216.0	2416.4	2698.0	2996.4
70°	367.2	359.1	458.5	653.1	1025.4	1745.0	1800.6	1808.7	1864.2	2016.4	2203.6
72.5°	119.2	121.4	146.3	239.1	472.5	1174.6	1630.2	1605.3	1590.7	1590.0	1614.9
75°	47.5	48.3	58.5	106.0	212.1	566.1	1427.6	1441.5	1446.6	1454.0	1462.0
77.5°	22.7	24.9	32.9	59.2	105.3	280.1	1021.7	1139.5	1206.8	1258.7	1290.1
80°	8.1	9.5	18.3	36.6	49.0	128.7	538.3	649.5	748.2	875.4	985.1
82.5°	0.0	0.0	3.7	25.6	27.1	51.9	220.9	258.9	296.2	383.9	492.9
85°	0.0	0.0	0.0	7.3	8.1	8.8	74.6	89.9	100.9	117.8	136.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	4.4	10.9	16.8
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3
2.5°	179.9	179.2	179.2	177.7	177.0	175.5	174.8	172.6	171.9	171.9	171.9
5°	212.8	209.9	208.4	204.8	202.6	201.9	198.2	196.7	194.5	195.3	191.6
7.5°	249.4	244.3	242.1	237.0	235.5	230.4	228.9	225.2	223.1	218.7	217.2
10°	289.6	283.0	279.4	271.3	269.1	265.5	261.1	256.7	253.1	248.7	246.5
12.5°	335.7	329.8	326.9	316.0	310.8	305.7	299.8	294.0	288.2	284.5	279.4
15°	389.8	380.3	377.4	367.2	358.4	351.8	343.7	336.4	332.1	324.7	319.6
17.5°	443.2	433.7	431.5	416.2	406.7	402.3	393.5	383.9	375.9	368.6	360.6
20°	496.6	490.0	484.2	469.5	459.3	452.0	440.3	430.8	424.2	413.9	403.7
22.5°	550.0	543.4	539.0	523.6	514.1	503.9	493.7	483.4	473.9	461.5	449.8
25°	604.9	600.5	598.2	584.4	575.6	566.1	555.9	544.1	532.4	518.5	506.1
27.5°	661.9	663.3	659.0	656.0	646.5	640.0	623.9	615.8	607.0	590.2	574.9
30°	734.3	738.7	737.2	739.4	733.6	729.2	716.7	706.5	696.3	680.2	662.6
32.5°	825.7	831.5	834.5	842.5	839.6	838.2	834.5	819.9	812.5	784.8	777.4
35°	966.9	963.9	976.4	983.0	980.0	978.6	974.2	966.1	957.4	937.6	919.3
37.5°	1150.4	1153.4	1157.8	1144.6	1135.8	1135.1	1121.9	1113.9	1101.4	1079.5	1057.6
40°	1486.8	1468.6	1448.1	1392.5	1368.4	1354.5	1315.7	1304.8	1283.5	1253.5	1230.9
42.5°	1924.2	1905.9	1844.5	1751.6	1701.9	1633.1	1601.7	1562.9	1532.9	1483.9	1457.6
45°	2358.7	2306.0	2298.7	2190.5	2129.0	2038.3	1982.0	1916.9	1848.9	1784.5	1737.7
47.5°	2725.1	2713.4	2677.6	2611.7	2554.7	2478.6	2406.2	2306.0	2235.8	2144.4	2060.3
50°	3018.3	3017.6	3004.5	2966.4	2918.9	2857.5	2793.8	2709.0	2629.3	2517.4	2427.4
52.5°	3237.8	3249.5	3253.9	3242.1	3223.9	3169.8	3137.5	3066.6	2999.3	2904.2	2807.0
55°	3398.7	3441.8	3463.8	3488.6	3483.5	3464.5	3463.0	3416.9	3386.2	3310.9	3242.1
57.5°	3597.6	3668.5	3736.6	3857.2	3861.6	3904.0	3926.0	3947.9	3953.8	3923.8	3901.1
60°	3850.7	3995.5	4124.2	4376.5	4442.3	4546.2	4613.4	4686.6	4748.8	4753.9	4752.4
62.5°	4029.1	4252.2	4459.9	4834.3	4962.3	5082.3	5172.2	5243.2	5286.3	5330.2	5350.7
63°	4034.2	4278.5	4499.4	4885.5	5020.1	5134.2	5219.7	5285.6	5330.9	5357.3	5370.4
65°	3910.6	4206.8	4470.1	4854.8	4981.3	5096.2	5140.8	5183.9	5205.9	5216.1	5177.4
67.5°	3314.6	3604.2	3911.3	4341.4	4449.6	4587.1	4623.7	4645.7	4655.9	4653.7	4620.8
70°	2478.6	2721.4	3062.9	3554.4	3697.8	3832.3	3915.7	3951.6	3963.3	3959.6	3910.6
72.5°	1730.4	1873.0	2154.6	2701.7	2897.0	3069.6	3172.7	3226.0	3237.0	3215.1	3169.8
75°	1453.2	1460.6	1524.2	1823.3	2006.2	2190.5	2306.7	2340.4	2318.4	2251.9	2136.3
77.5°	1297.4	1313.5	1313.5	1358.1	1394.0	1445.2	1456.2	1374.2	1279.1	1156.3	1056.8
80°	1088.3	1144.6	1184.1	1217.0	1220.7	1210.4	1183.3	1137.3	1064.1	970.5	866.7
82.5°	661.2	772.3	817.7	987.4	1070.7	1127.1	1122.7	1061.2	1005.6	908.4	819.9
85°	166.8	179.9	195.3	253.8	284.5	347.4	386.9	405.2	411.8	378.1	342.3
87.5°	16.1	10.9	18.3	13.9	19.7	14.6	19.7	18.3	22.7	24.1	26.3
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3
2.5°	170.4	169.7	168.9	168.2	167.5	166.8	165.3	165.3	163.8	163.1	162.4
5°	189.4	188.0	187.2	185.8	183.6	182.1	179.9	177.0	174.8	174.1	172.6
7.5°	213.6	209.9	208.4	206.2	203.3	198.9	196.0	193.8	190.1	188.0	183.6
10°	240.6	237.0	232.6	228.2	223.8	218.7	215.0	212.1	206.2	203.3	198.2
12.5°	275.0	268.4	263.3	257.5	251.6	245.7	241.4	232.6	227.5	220.9	216.5
15°	310.1	304.2	298.4	291.1	282.3	272.8	268.4	260.4	253.8	243.5	237.7
17.5°	352.5	341.6	332.8	324.0	316.0	307.2	298.4	286.0	276.5	267.7	256.0
20°	394.2	381.1	371.6	359.8	348.1	334.2	324.0	315.2	302.1	290.3	277.9
22.5°	438.8	425.7	410.3	398.6	382.5	371.6	357.6	343.0	329.8	314.5	299.1
25°	492.9	479.0	461.5	446.2	427.8	412.5	395.7	378.8	362.8	345.2	325.5
27.5°	559.5	544.9	525.9	507.6	483.4	464.4	448.3	425.7	405.2	383.2	360.6
30°	643.6	627.5	604.1	577.8	553.6	532.4	509.8	479.8	457.1	430.8	401.5
32.5°	753.3	734.3	702.8	678.0	648.0	620.2	588.7	558.8	526.6	492.2	458.5
35°	891.5	874.0	837.4	800.8	767.9	735.0	695.5	661.2	615.8	574.1	531.0
37.5°	1034.9	1003.4	969.8	930.3	889.3	849.8	801.6	754.1	702.1	656.8	602.6
40°	1198.7	1160.7	1132.9	1090.5	1032.7	976.4	931.8	872.5	807.4	746.7	683.1
42.5°	1423.2	1380.8	1331.1	1266.7	1225.0	1159.2	1101.4	1031.2	945.6	877.6	800.8
45°	1682.9	1625.1	1576.8	1514.7	1464.2	1382.3	1315.0	1221.4	1135.8	1046.6	953.0
47.5°	1979.1	1907.4	1837.2	1775.7	1695.3	1614.9	1529.3	1429.8	1320.1	1222.1	1110.9
50°	2319.2	2217.5	2120.2	2041.3	1930.8	1837.9	1745.0	1633.1	1511.7	1399.1	1272.6
52.5°	2697.3	2579.5	2450.8	2329.4	2201.4	2082.2	1970.3	1841.6	1706.3	1568.8	1427.6
55°	3153.7	3065.2	2913.7	2759.4	2588.3	2428.9	2284.8	2125.4	1960.8	1780.1	1631.7
57.5°	3868.2	3825.1	3698.5	3544.2	3321.1	3127.3	2883.0	2687.8	2449.4	2200.7	2009.0
60°	4836.5	4783.1	4712.2	4587.1	4410.1	4146.8	3877.7	3574.2	3211.4	2867.0	2540.0
62.5°	5352.9	5333.8	5276.1	5189.8	5024.5	4816.8	4545.4	4211.9	3802.4	3384.0	2967.1
63°	5368.2	5344.1	5294.3	5206.6	5061.0	4859.9	4593.7	4269.7	3868.9	3442.6	3016.9
65°	5160.5	5151.0	5100.5	5004.7	4905.3	4751.7	4545.4	4266.8	3930.4	3527.4	3103.9
67.5°	4576.9	4548.3	4470.8	4441.6	4372.1	4265.3	4108.1	3916.5	3675.9	3359.2	2993.5
70°	3871.1	3828.7	3731.4	3679.5	3594.6	3527.4	3431.6	3294.8	3146.3	2925.5	2652.7
72.5°	3122.9	3035.2	2946.0	2810.6	2692.2	2572.2	2466.1	2369.6	2206.5	2117.3	1910.3
75°	2028.1	1868.6	1715.8	1511.0	1326.7	1163.6	1004.9	924.4	756.9	689.0	591.7
77.5°	962.5	873.3	753.3	660.4	541.9	442.5	361.3	271.3	212.8	166.8	127.3
80°	776.7	701.4	629.0	544.9	455.7	363.5	278.6	208.4	147.8	102.4	72.4
82.5°	692.6	610.7	521.5	463.7	403.0	329.8	270.6	220.9	163.1	119.2	81.2
85°	269.1	226.7	174.8	142.6	111.2	91.4	82.7	57.0	44.6	35.1	27.1
87.5°	23.4	19.0	15.3	10.2	10.9	5.8	6.6	4.4	3.7	3.7	2.9
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3
2.5°	161.6	160.9	160.1	158.7	158.7	157.3	156.5	155.8	152.1	144.1	137.5
5°	169.7	168.2	166.8	164.5	163.1	160.9	159.4	157.3	149.2	133.8	120.7
7.5°	181.4	178.5	176.3	171.9	169.7	166.8	164.5	160.9	147.8	124.3	106.0
10°	195.3	190.1	186.5	181.4	177.0	173.3	169.7	164.5	146.3	114.1	92.9
12.5°	212.1	206.2	198.9	193.1	187.2	182.1	177.0	170.4	144.1	105.3	82.7
15°	228.9	220.1	215.0	207.0	198.9	191.6	184.3	178.5	144.8	95.8	73.9
17.5°	247.9	239.1	228.2	219.4	210.6	201.1	192.4	180.6	141.1	88.5	67.3
20°	266.2	253.8	243.5	232.6	220.1	208.4	197.5	187.2	138.2	81.2	61.4
22.5°	286.0	271.3	258.2	244.3	228.9	215.7	202.6	189.4	133.1	74.6	56.3
25°	310.1	293.3	274.2	257.5	241.4	225.2	208.4	192.4	128.0	68.8	52.7
27.5°	339.3	317.4	298.4	277.2	254.5	234.0	215.7	198.2	122.9	64.4	49.0
30°	376.7	351.1	324.0	297.0	272.8	249.4	223.8	201.9	117.8	60.0	45.3
32.5°	426.4	394.2	361.3	329.8	297.7	267.7	240.6	212.1	114.8	56.3	41.7
35°	492.2	450.5	410.3	370.8	332.1	295.5	260.4	228.2	114.8	51.9	37.3
37.5°	554.4	506.1	454.9	405.9	359.8	317.4	275.7	237.0	109.0	48.3	33.7
40°	621.7	563.9	503.9	446.2	390.6	337.9	290.3	245.7	103.9	43.9	30.0
42.5°	724.8	651.6	573.4	506.1	439.5	374.4	315.2	262.6	97.3	39.5	26.3
45°	860.1	767.2	675.1	593.1	508.3	428.6	358.4	293.3	95.8	35.8	22.7
47.5°	1004.9	895.2	786.9	682.3	582.9	490.0	405.9	327.7	95.8	32.2	19.7
50°	1149.0	1011.5	895.9	774.5	662.6	552.9	452.7	363.5	96.5	29.3	16.1
52.5°	1279.1	1132.2	1002.7	862.3	738.7	611.4	502.4	398.6	95.1	25.6	13.2
55°	1459.8	1287.2	1137.3	982.2	837.4	694.1	570.5	451.3	95.8	22.7	10.9
57.5°	1792.6	1590.0	1409.3	1206.0	1039.3	854.2	704.3	559.5	104.6	19.0	8.1
60°	2270.2	2006.9	1753.1	1505.2	1293.0	1072.9	878.4	708.0	122.9	15.3	5.8
62.5°	2591.2	2246.7	1944.0	1670.4	1424.0	1193.6	981.5	787.7	135.3	12.4	3.7
63°	2624.1	2268.0	1963.7	1681.4	1429.8	1199.4	985.9	793.5	136.0	11.7	3.7
65°	2686.3	2304.6	1974.7	1683.6	1424.0	1191.4	983.0	792.8	137.5	9.5	2.9
67.5°	2615.3	2248.2	1911.1	1620.7	1372.8	1143.8	946.4	763.6	136.8	6.6	2.2
70°	2338.9	2034.7	1738.5	1467.8	1242.6	1035.6	861.5	696.3	125.8	4.4	1.4
72.5°	1717.3	1510.3	1280.6	1085.3	936.1	777.4	663.3	522.9	97.3	2.9	0.7
75°	509.0	463.7	389.8	343.7	303.5	250.9	223.1	174.1	49.7	1.4	0.0
77.5°	101.7	92.2	82.7	75.3	70.9	60.7	57.8	47.5	20.5	0.7	0.0
80°	53.4	43.9	37.3	32.9	28.5	23.4	19.7	16.1	3.7	0.0	0.0
82.5°	51.2	34.4	24.9	20.5	17.6	13.9	10.9	8.1	2.2	0.0	0.0
85°	19.0	14.6	10.9	8.8	7.3	6.6	5.1	4.4	0.0	0.0	0.0
87.5°	2.9	2.2	2.2	1.4	1.4	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°	154.3	154.3	154.3	154.3	154.3	154.3	154.3
2.5°	130.9	125.0	122.1	118.5	118.5	117.8	119.2
5°	109.0	100.9	95.1	90.7	91.4	89.2	89.9
7.5°	92.2	84.1	79.0	76.0	75.3	74.6	74.6
10°	79.7	72.4	68.0	65.8	65.1	65.1	65.1
12.5°	70.9	63.6	60.0	58.5	58.5	57.8	57.8
15°	63.6	57.8	54.1	52.7	52.7	51.9	52.7
17.5°	57.8	51.9	49.0	47.5	47.5	46.8	46.8
20°	52.7	47.5	44.6	42.4	42.4	41.7	42.4
22.5°	48.3	43.2	39.5	38.0	37.3	36.6	37.3
25°	43.9	38.8	35.1	32.9	32.2	32.2	31.4
27.5°	40.2	35.1	30.7	28.5	27.8	27.8	27.1
30°	36.6	30.7	26.3	24.1	23.4	23.4	23.4
32.5°	32.9	26.3	22.7	20.5	19.7	19.7	19.7
35°	29.3	22.7	19.0	16.8	16.1	16.1	16.1
37.5°	24.9	19.0	14.6	13.2	12.4	11.7	11.7
40°	21.2	14.6	10.9	9.5	8.1	8.1	8.1
42.5°	17.6	11.7	8.1	5.8	5.1	4.4	5.1
45°	14.6	8.8	5.1	2.9	2.2	2.2	2.2
47.5°	11.7	5.8	2.2	0.7	0.7	0.7	0.7
50°	8.8	3.7	0.7	0.0	0.0	0.7	0.7
52.5°	6.6	2.2	0.0	0.0	0.0	0.0	0.0
55°	3.7	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.4	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)