

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: P163280

Luminaire Tested: **LDRL-SL2-F06-E-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163280  
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-F06-E-8030-HSS  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7435.1 lumens  
Efficiency: N/A  
Efficacy: 47.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5  
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

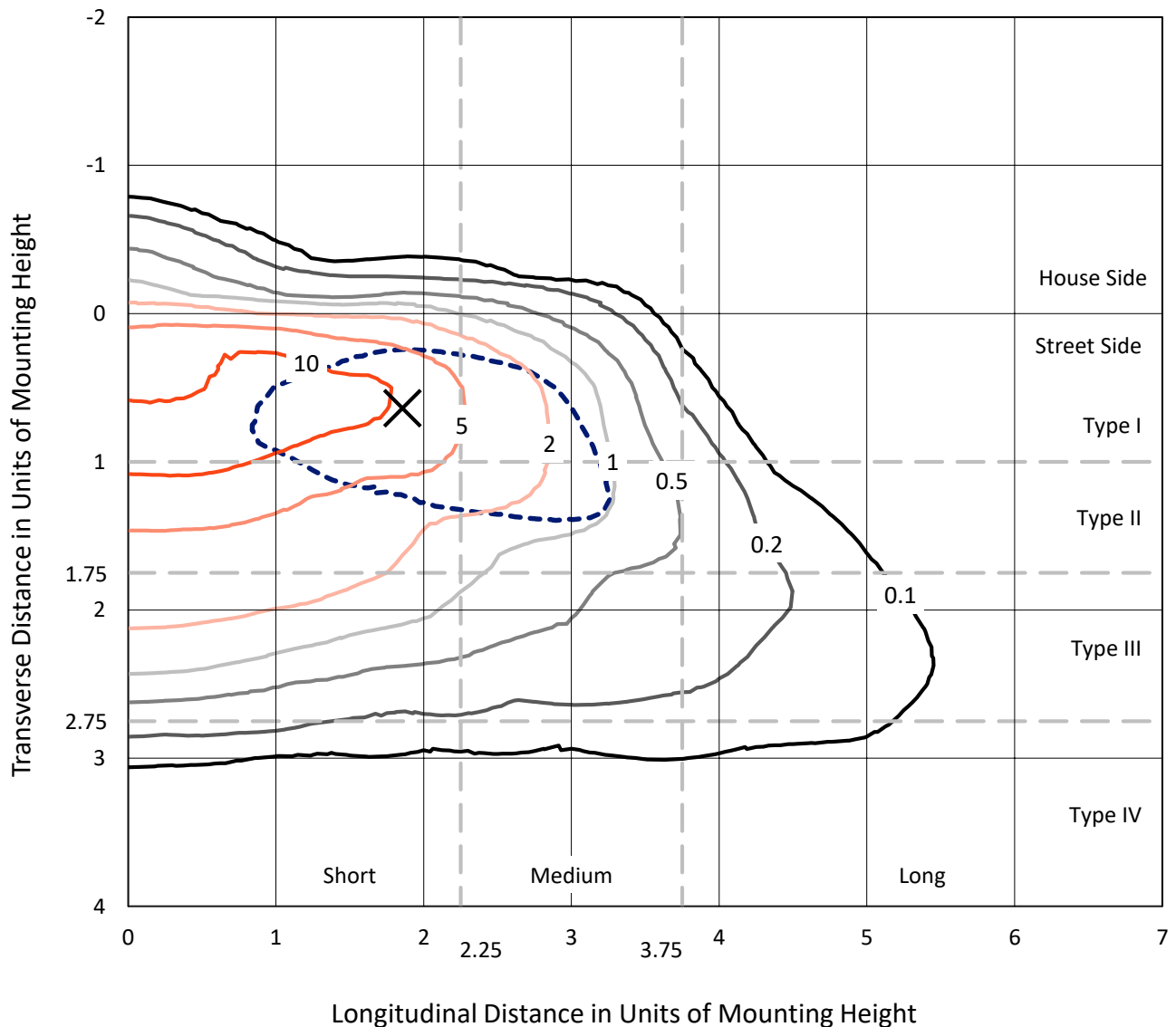


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

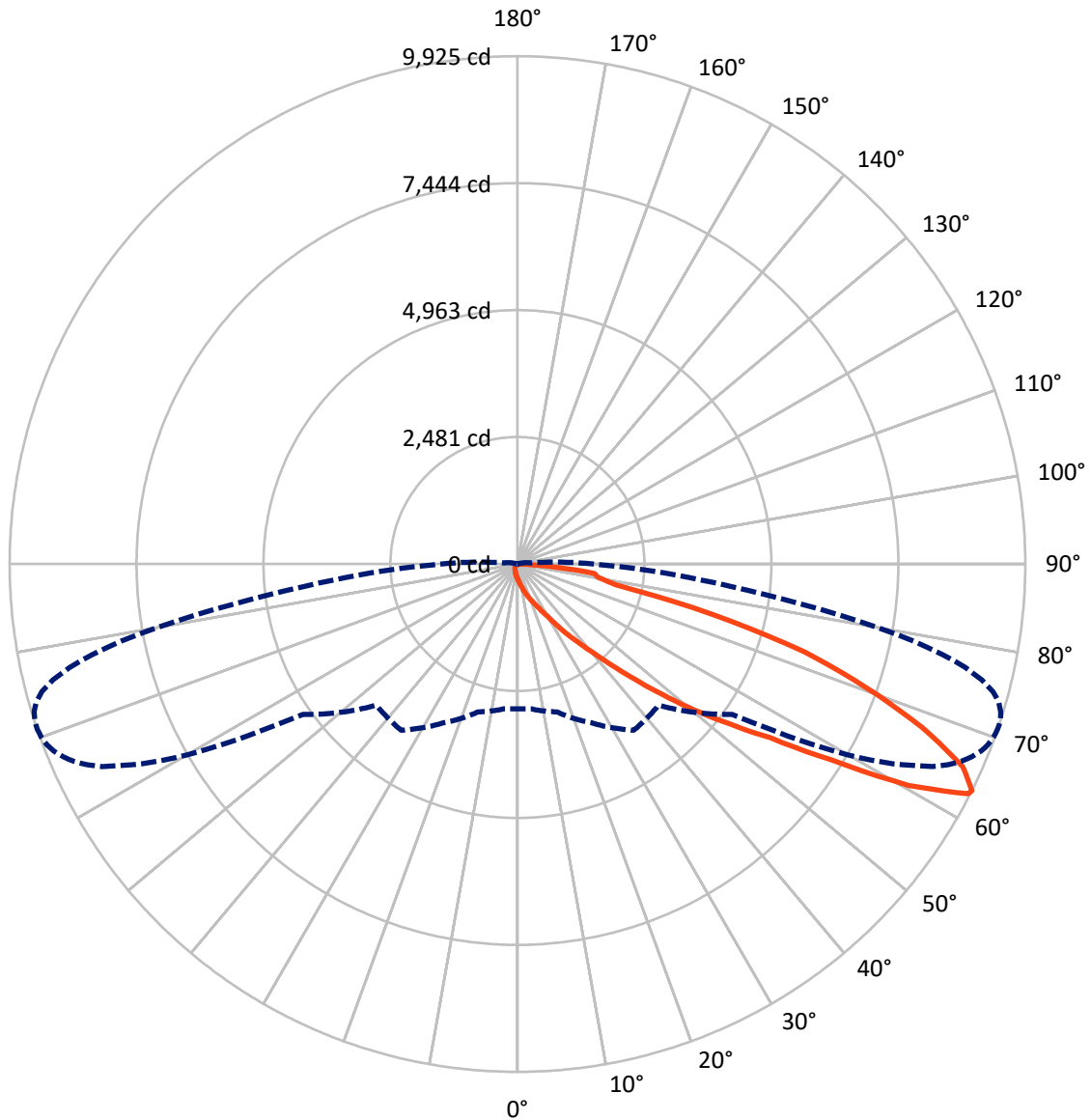


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - Non-Cutoff

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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	157.9	0.0	157.9
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	7277.2	0.0	7277.2
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	7435.1	0.0	7435.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.5	0.4
10°-20°	122.3	1.6
20°-30°	248.3	3.3
30°-40°	606.7	8.2
40°-50°	1356.8	18.2
50°-60°	1907.8	25.7
60°-70°	2243.4	30.2
70°-80°	810.1	10.9
80°-90°	108.3	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°	7435.1	100.0
0°-180°	7435.1	100.0



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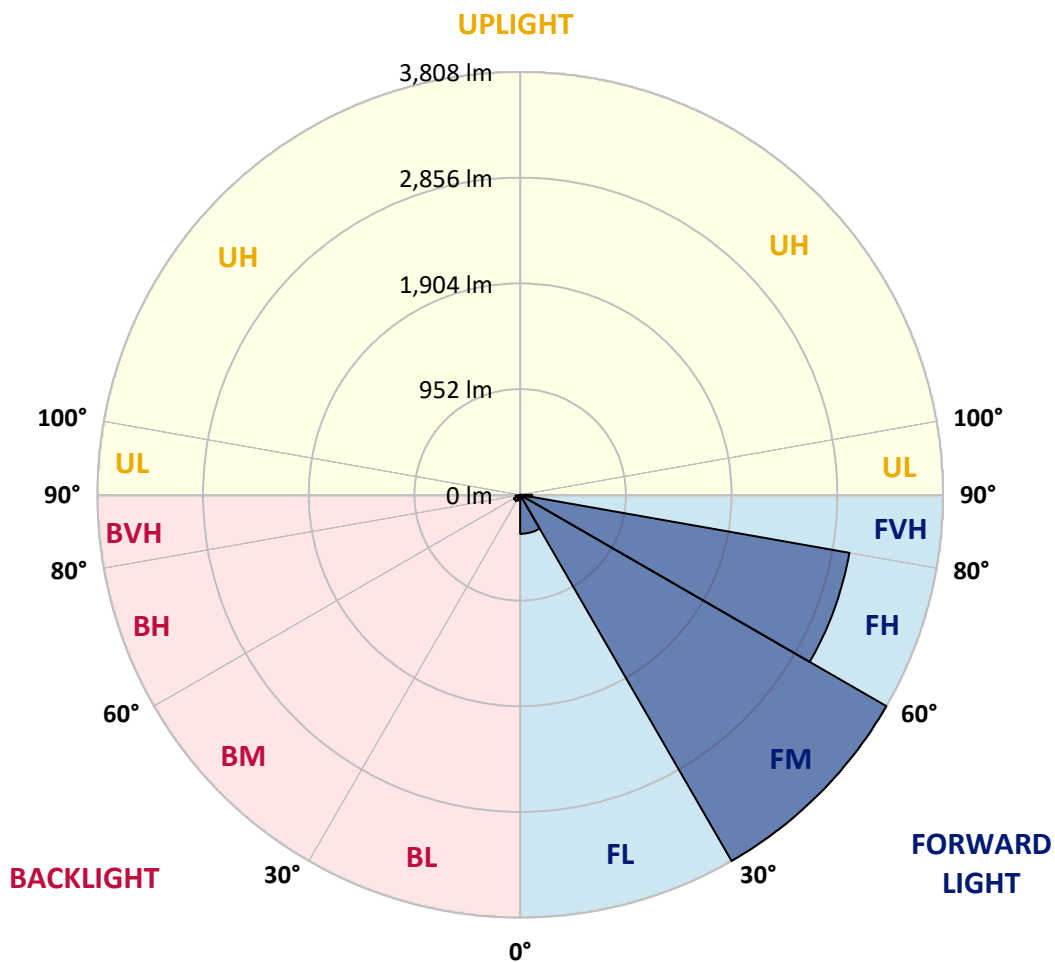
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.3	4.7			
FM	(30°-60°)	3807.6	51.2			
FH	(60°-80°)	3010.2	40.5			G2/5000
FVH	(80°-90°)	108.1	1.5			G2/225
BL	(0°-30°)	50.8	0.7	B0/110		
BM	(30°-60°)	63.6	0.9	B0/220		
BH	(60°-80°)	43.3	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°	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2
2.5°	373.1	377.1	374.4	367.6	359.5	348.7	339.3	339.3	337.9	333.8	335.2
5°	489.3	490.6	485.3	469.0	454.2	431.2	405.5	402.8	400.1	396.1	394.7
7.5°	602.8	608.3	602.8	585.3	555.5	520.4	479.8	475.8	467.7	467.7	462.3
10°	719.1	719.1	713.7	693.4	666.4	616.4	565.0	558.3	548.8	546.0	537.9
12.5°	801.6	801.6	798.8	788.0	766.4	721.8	659.6	652.8	640.7	636.6	627.1
15°	834.0	834.0	835.3	844.8	846.1	825.9	761.0	755.6	743.4	732.6	728.6
17.5°	854.2	852.9	852.9	866.4	890.8	904.2	862.3	857.0	843.4	838.0	824.5
20°	898.9	896.1	888.0	888.0	911.0	958.3	958.3	957.0	942.1	938.1	931.3
22.5°	965.1	962.4	938.1	917.8	928.6	988.1	1043.5	1040.8	1035.4	1030.0	1025.9
25°	1073.2	1063.7	1021.9	962.4	952.9	1016.4	1108.4	1115.1	1119.2	1119.2	1121.9
27.5°	1236.7	1224.6	1150.3	1039.4	997.5	1062.4	1180.0	1193.5	1205.7	1208.4	1220.5
30°	1463.8	1442.2	1335.5	1173.3	1077.3	1130.0	1285.4	1300.3	1317.8	1323.3	1342.2
32.5°	1836.9	1824.8	1722.0	1478.7	1273.3	1262.5	1432.7	1451.7	1474.7	1484.1	1507.1
35°	2404.6	2407.3	2323.5	2104.5	1820.7	1672.0	1696.3	1712.5	1720.7	1749.0	1761.2
37.5°	2789.8	2796.5	2815.5	2729.0	2526.2	2374.9	2184.3	2201.8	2159.9	2164.0	2165.4
40°	3000.7	3022.3	3133.1	3216.9	3200.7	3112.8	2960.2	2969.6	2891.2	2873.6	2788.4
42.5°	3141.2	3169.6	3346.7	3606.2	3738.7	3818.4	3783.3	3779.3	3718.4	3695.4	3623.7
45°	3229.1	3254.8	3477.8	3860.4	4165.8	4398.3	4494.3	4505.1	4453.7	4430.7	4371.2
47.5°	3225.0	3254.8	3494.0	3954.9	4405.1	4776.7	5047.1	5060.6	5091.7	5071.4	5075.4
50°	3046.6	3075.0	3315.6	3794.1	4334.8	4949.8	5444.5	5487.7	5537.7	5571.5	5587.7
52.5°	2830.4	2850.6	3064.2	3518.3	4034.7	4878.1	5679.7	5754.0	5828.3	5891.9	5936.4
55°	2750.6	2773.6	2941.2	3318.3	3794.1	4578.1	5789.1	5898.6	6004.1	6108.1	6193.3
57.5°	2792.5	2814.2	2934.4	3223.7	3650.8	4261.8	5820.2	5990.5	6163.5	6332.5	6500.1
60°	2946.6	2969.6	3072.3	3311.6	3613.0	4079.2	5698.6	5981.1	6268.9	6563.7	6840.7
62.5°	2885.7	2895.3	3046.6	3465.6	3883.3	3923.8	5256.6	5651.2	6090.5	6544.7	6992.1
63°	2827.6	2838.5	2992.6	3423.8	3965.8	3900.9	5120.1	5536.4	6000.0	6489.3	6975.9
65°	2564.1	2565.4	2683.1	3023.6	3873.8	3941.5	4511.8	4909.2	5441.7	6028.4	6643.3
67.5°	1914.0	1904.5	2018.1	2277.6	3041.3	3942.8	3872.5	4095.5	4465.9	4986.2	5537.7
70°	678.6	663.7	847.5	1207.1	1895.0	3225.0	3327.8	3342.7	3445.3	3726.5	4072.6
72.5°	220.3	224.4	270.3	442.0	873.2	2170.7	3012.8	2966.8	2939.8	2938.5	2984.5
75°	87.9	89.2	108.1	196.0	392.0	1046.2	2638.4	2664.1	2673.5	2687.1	2702.0
77.5°	41.9	46.0	60.8	109.4	194.6	517.7	1888.3	2105.8	2230.3	2326.2	2384.3
80°	14.9	17.6	33.8	67.6	90.5	237.9	994.9	1200.3	1382.7	1617.9	1820.7
82.5°	0.0	0.0	6.8	47.3	50.0	96.0	408.2	478.5	547.4	709.6	911.0
85°	0.0	0.0	0.0	13.5	14.9	16.2	137.9	166.2	186.5	217.6	251.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	8.1	20.2	31.1
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°	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2
2.5°	332.5	331.2	331.2	328.4	327.1	324.4	323.1	319.0	317.6	317.6	317.6
5°	393.3	387.9	385.2	378.5	374.4	373.1	366.3	363.6	359.5	360.9	354.2
7.5°	460.9	451.5	447.4	437.9	435.3	425.7	423.1	416.3	412.3	404.2	401.4
10°	535.3	523.1	516.4	501.5	497.4	490.6	482.5	474.4	467.7	459.6	455.5
12.5°	620.4	609.6	604.2	583.9	574.5	565.0	554.2	543.4	532.6	525.8	516.4
15°	720.5	702.9	697.5	678.6	662.3	650.1	635.3	621.8	613.7	600.1	590.7
17.5°	819.1	801.6	797.5	769.1	751.6	743.4	727.2	709.6	694.8	681.2	666.4
20°	917.8	905.6	894.8	867.8	848.9	835.3	813.7	796.1	784.0	765.0	746.1
22.5°	1016.4	1004.3	996.2	967.8	950.2	931.3	912.3	893.4	875.9	852.9	831.2
25°	1117.8	1109.7	1105.6	1080.0	1063.7	1046.2	1027.3	1005.6	984.0	958.3	935.3
27.5°	1223.3	1225.9	1217.8	1212.4	1194.8	1182.7	1153.0	1138.1	1121.9	1090.8	1062.4
30°	1357.0	1365.2	1362.5	1366.5	1355.7	1347.6	1324.6	1305.7	1286.8	1257.1	1224.6
32.5°	1526.0	1536.8	1542.2	1557.1	1551.7	1549.0	1542.2	1515.2	1501.7	1450.4	1436.8
35°	1786.9	1781.4	1804.4	1816.6	1811.2	1808.5	1800.4	1785.5	1769.3	1732.8	1699.0
37.5°	2126.2	2131.6	2139.7	2115.4	2099.2	2097.7	2073.4	2058.6	2035.6	1995.1	1954.5
40°	2747.9	2714.1	2676.3	2573.5	2529.0	2503.2	2431.7	2411.3	2372.1	2316.7	2274.8
42.5°	3556.2	3522.4	3408.9	3237.2	3145.3	3018.3	2960.2	2888.5	2833.1	2742.5	2693.9
45°	4359.1	4261.8	4248.2	4048.2	3934.7	3767.1	3663.0	3542.6	3417.0	3298.0	3211.6
47.5°	5036.2	5014.7	4948.4	4826.8	4721.4	4580.7	4447.0	4261.8	4132.0	3963.0	3807.6
50°	5578.3	5576.9	5552.6	5482.3	5394.5	5280.9	5163.3	5006.5	4859.2	4652.4	4486.2
52.5°	5983.8	6005.4	6013.5	5991.9	5958.1	5858.1	5798.6	5667.5	5543.1	5367.4	5187.6
55°	6281.2	6360.9	6401.5	6447.4	6437.9	6402.8	6400.0	6314.9	6258.2	6119.0	5991.9
57.5°	6648.8	6779.9	6905.6	7128.6	7136.7	7215.1	7255.7	7296.2	7307.0	7251.6	7209.7
60°	7116.5	7384.1	7622.0	8088.3	8209.9	8401.9	8526.2	8661.4	8776.3	8785.7	8783.0
62.5°	7446.2	7858.5	8242.4	8934.5	9171.0	9392.6	9558.8	9690.0	9769.7	9850.8	9888.7
63°	7455.7	7907.2	8315.3	9029.0	9277.8	9488.6	9646.7	9768.4	9852.2	9900.9	9925.2
65°	7227.3	7774.7	8261.3	8972.3	9206.1	9418.3	9500.7	9580.5	9621.1	9639.9	9568.4
67.5°	6125.7	6661.0	7228.6	8023.4	8223.5	8477.5	8545.2	8585.7	8604.6	8600.5	8539.7
70°	4580.7	5029.5	5660.7	6569.0	6834.0	7082.6	7236.7	7303.0	7324.6	7317.8	7227.3
72.5°	3198.0	3461.5	3982.0	4993.0	5353.9	5672.9	5863.4	5962.1	5982.4	5941.9	5858.1
75°	2685.7	2699.3	2816.8	3369.7	3707.6	4048.2	4263.1	4325.3	4284.8	4161.8	3948.1
77.5°	2397.8	2427.6	2427.6	2510.0	2576.2	2670.9	2691.2	2539.8	2364.0	2136.9	1953.2
80°	2011.3	2115.4	2188.4	2249.1	2255.9	2237.0	2186.9	2101.8	1966.6	1793.6	1601.7
82.5°	1221.9	1427.4	1511.1	1824.8	1978.8	2082.9	2074.8	1961.3	1858.5	1678.8	1515.2
85°	308.2	332.5	360.9	469.0	525.8	642.0	715.0	748.8	761.0	698.8	632.6
87.5°	29.8	20.2	33.8	25.7	36.5	27.0	36.5	33.8	41.9	44.6	48.7
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2
2.5°	315.0	313.6	312.2	310.9	309.5	308.2	305.5	305.5	302.7	301.4	300.1
5°	350.1	347.4	346.1	343.3	339.3	336.5	332.5	327.1	323.1	321.7	319.0
7.5°	394.7	387.9	385.2	381.2	375.7	367.6	362.3	358.2	351.4	347.4	339.3
10°	444.7	437.9	429.8	421.7	413.6	404.2	397.4	392.0	381.2	375.7	366.3
12.5°	508.3	496.0	486.6	475.8	464.9	454.2	446.1	429.8	420.4	408.2	400.1
15°	573.1	562.3	551.5	537.9	521.7	504.2	496.0	481.2	469.0	450.1	439.3
17.5°	651.5	631.2	615.0	598.8	583.9	567.7	551.5	528.5	510.9	494.7	473.1
20°	728.6	704.2	686.7	665.0	643.4	617.7	598.8	582.6	558.3	536.6	513.6
22.5°	811.0	786.7	758.2	736.7	706.9	686.7	660.9	633.9	609.6	581.2	552.8
25°	911.0	885.3	852.9	824.5	790.7	762.3	731.2	700.1	670.5	638.0	601.5
27.5°	1034.0	1007.0	971.9	938.1	893.4	858.3	828.6	786.7	748.8	708.2	666.4
30°	1189.5	1159.7	1116.5	1067.8	1023.2	984.0	942.1	886.7	844.8	796.1	742.0
32.5°	1392.2	1357.0	1298.9	1253.0	1197.6	1146.2	1088.1	1032.6	973.2	909.7	847.5
35°	1647.7	1615.2	1547.7	1480.0	1419.3	1358.4	1285.4	1221.9	1138.1	1061.1	981.3
37.5°	1912.6	1854.4	1792.3	1719.3	1643.6	1570.6	1481.4	1393.6	1297.6	1213.8	1113.7
40°	2215.4	2145.1	2093.7	2015.3	1908.5	1804.4	1722.0	1612.6	1492.2	1380.0	1262.5
42.5°	2630.3	2551.9	2460.0	2341.0	2264.0	2142.4	2035.6	1905.9	1747.7	1622.0	1480.0
45°	3110.1	3003.4	2914.2	2799.3	2706.0	2554.7	2430.2	2257.3	2099.2	1934.2	1761.2
47.5°	3657.6	3525.1	3395.3	3281.8	3133.1	2984.5	2826.3	2642.5	2439.8	2258.6	2053.2
50°	4286.1	4098.2	3918.5	3772.5	3568.4	3396.7	3225.0	3018.3	2793.9	2585.8	2351.9
52.5°	4984.9	4767.3	4529.4	4305.0	4068.5	3848.2	3641.4	3403.4	3153.4	2899.3	2638.4
55°	5828.3	5664.8	5385.0	5099.8	4783.5	4488.8	4222.6	3927.9	3623.7	3289.9	3015.5
57.5°	7148.9	7069.2	6835.3	6550.1	6137.9	5779.7	5328.2	4967.3	4526.7	4067.1	3713.0
60°	8938.5	8839.8	8708.7	8477.5	8150.5	7663.9	7166.5	6605.6	5935.1	5298.5	4694.3
62.5°	9892.8	9857.6	9750.8	9591.3	9285.9	8902.0	8400.5	7784.2	7027.3	6254.1	5483.6
63°	9921.1	9876.6	9784.6	9622.4	9353.4	8981.7	8489.8	7890.9	7150.3	6362.3	5575.6
65°	9537.3	9519.7	9426.4	9249.3	9065.6	8781.7	8400.5	7885.5	7263.8	6519.0	5736.4
67.5°	8458.6	8405.9	8262.7	8208.6	8080.2	7882.8	7592.2	7238.1	6793.4	6208.2	5532.3
70°	7154.3	7075.9	6896.1	6800.2	6643.3	6519.0	6341.9	6089.2	5814.8	5406.6	4902.5
72.5°	5771.6	5609.4	5444.5	5194.4	4975.4	4753.8	4557.7	4379.3	4077.9	3913.0	3530.5
75°	3748.2	3453.4	3171.0	2792.5	2451.9	2150.5	1857.2	1708.5	1398.9	1273.3	1093.5
77.5°	1778.8	1613.9	1392.2	1220.5	1001.5	817.8	667.7	501.5	393.3	308.2	235.2
80°	1435.5	1296.3	1162.4	1007.0	842.1	671.8	514.9	385.2	273.1	189.2	133.8
82.5°	1280.0	1128.6	963.8	857.0	744.8	609.6	500.1	408.2	301.4	220.3	150.0
85°	497.4	419.0	323.1	263.5	205.4	169.0	152.8	105.4	82.4	64.9	50.0
87.5°	43.2	35.1	28.3	18.9	20.2	10.8	12.1	8.1	6.8	6.8	5.4
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2	285.2
2.5°	298.7	297.4	296.0	293.3	293.3	290.6	289.3	287.9	281.2	266.3	254.1
5°	313.6	310.9	308.2	304.1	301.4	297.4	294.6	290.6	275.7	247.3	223.0
7.5°	335.2	329.8	325.7	317.6	313.6	308.2	304.1	297.4	273.1	229.8	196.0
10°	360.9	351.4	344.6	335.2	327.1	320.3	313.6	304.1	270.3	210.9	171.6
12.5°	392.0	381.2	367.6	356.8	346.1	336.5	327.1	315.0	266.3	194.6	152.8
15°	423.1	406.8	397.4	382.5	367.6	354.2	340.6	329.8	267.6	177.1	136.5
17.5°	458.2	442.0	421.7	405.5	389.3	371.7	355.5	333.8	260.9	163.5	124.3
20°	492.0	469.0	450.1	429.8	406.8	385.2	365.0	346.1	255.4	150.0	113.5
22.5°	528.5	501.5	477.2	451.5	423.1	398.7	374.4	350.1	246.0	137.9	104.1
25°	573.1	542.0	506.8	475.8	446.1	416.3	385.2	355.5	236.5	127.1	97.3
27.5°	627.1	586.6	551.5	512.3	470.4	432.5	398.7	366.3	227.1	119.0	90.5
30°	696.1	648.8	598.8	548.8	504.2	460.9	413.6	373.1	217.6	110.9	83.8
32.5°	788.0	728.6	667.7	609.6	550.1	494.7	444.7	392.0	212.2	104.1	77.0
35°	909.7	832.7	758.2	685.3	613.7	546.0	481.2	421.7	212.2	96.0	68.9
37.5°	1024.5	935.3	840.8	750.1	665.0	586.6	509.6	437.9	201.4	89.2	62.2
40°	1148.9	1042.1	931.3	824.5	721.8	624.5	536.6	454.2	192.0	81.1	55.4
42.5°	1339.5	1204.3	1059.7	935.3	812.3	692.0	582.6	485.3	179.8	73.0	48.7
45°	1589.6	1417.9	1247.6	1096.2	939.4	792.1	662.3	542.0	177.1	66.2	41.9
47.5°	1857.2	1654.4	1454.4	1261.1	1077.3	905.6	750.1	605.6	177.1	59.4	36.5
50°	2123.5	1869.3	1655.8	1431.4	1224.6	1021.9	836.7	671.8	178.4	54.1	29.8
52.5°	2364.0	2092.4	1853.1	1593.6	1365.2	1130.0	928.6	736.7	175.7	47.3	24.3
55°	2697.9	2378.9	2101.8	1815.3	1547.7	1282.7	1054.3	834.0	177.1	41.9	20.2
57.5°	3312.9	2938.5	2604.6	2228.9	1920.7	1578.7	1301.6	1034.0	193.3	35.1	14.9
60°	4195.5	3708.9	3239.9	2781.7	2389.7	1982.9	1623.3	1308.4	227.1	28.3	10.8
62.5°	4788.9	4152.2	3592.7	3087.2	2631.7	2205.9	1813.9	1455.7	250.1	23.0	6.8
63°	4849.7	4191.4	3629.2	3107.5	2642.5	2216.7	1822.0	1466.6	251.4	21.7	6.8
65°	4964.7	4259.1	3649.5	3111.5	2631.7	2201.8	1816.6	1465.2	254.1	17.6	5.4
67.5°	4833.5	4155.0	3531.9	2995.3	2537.1	2114.0	1749.0	1411.1	252.7	12.1	4.0
70°	4322.5	3760.3	3212.9	2712.8	2296.5	1914.0	1592.2	1286.8	232.5	8.1	2.7
72.5°	3173.7	2791.2	2366.8	2005.8	1730.1	1436.8	1225.9	966.4	179.8	5.4	1.3
75°	940.8	857.0	720.5	635.3	560.9	463.6	412.3	321.7	91.9	2.7	0.0
77.5°	187.9	170.3	152.8	139.2	131.1	112.2	106.8	87.9	37.9	1.3	0.0
80°	98.7	81.1	68.9	60.8	52.7	43.2	36.5	29.8	6.8	0.0	0.0
82.5°	94.6	63.5	46.0	37.9	32.4	25.7	20.2	14.9	4.0	0.0	0.0
85°	35.1	27.0	20.2	16.2	13.5	12.1	9.4	8.1	0.0	0.0	0.0
87.5°	5.4	4.0	4.0	2.7	2.7	1.3	1.3	1.3	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°	285.2	285.2	285.2	285.2	285.2	285.2	285.2
2.5°	242.0	231.1	225.7	219.0	219.0	217.6	220.3
5°	201.4	186.5	175.7	167.6	169.0	164.9	166.2
7.5°	170.3	155.4	146.0	140.5	139.2	137.9	137.9
10°	147.3	133.8	125.7	121.7	120.3	120.3	120.3
12.5°	131.1	117.6	110.9	108.1	108.1	106.8	106.8
15°	117.6	106.8	100.0	97.3	97.3	96.0	97.3
17.5°	106.8	96.0	90.5	87.9	87.9	86.5	86.5
20°	97.3	87.9	82.4	78.4	78.4	77.0	78.4
22.5°	89.2	79.8	73.0	70.3	68.9	67.6	68.9
25°	81.1	71.7	64.9	60.8	59.4	59.4	58.1
27.5°	74.3	64.9	56.8	52.7	51.3	51.3	50.0
30°	67.6	56.8	48.7	44.6	43.2	43.2	43.2
32.5°	60.8	48.7	41.9	37.9	36.5	36.5	36.5
35°	54.1	41.9	35.1	31.1	29.8	29.8	29.8
37.5°	46.0	35.1	27.0	24.3	23.0	21.7	21.7
40°	39.2	27.0	20.2	17.6	14.9	14.9	14.9
42.5°	32.4	21.7	14.9	10.8	9.4	8.1	9.4
45°	27.0	16.2	9.4	5.4	4.0	4.0	4.0
47.5°	21.7	10.8	4.0	1.3	1.3	1.3	1.3
50°	16.2	6.8	1.3	0.0	0.0	1.3	1.3
52.5°	12.1	4.0	0.0	0.0	0.0	0.0	0.0
55°	6.8	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	4.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	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)