

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: P163257

Luminaire Tested: **LDRL-SL2-E04-E-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163257
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-E04-E-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7114.2 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

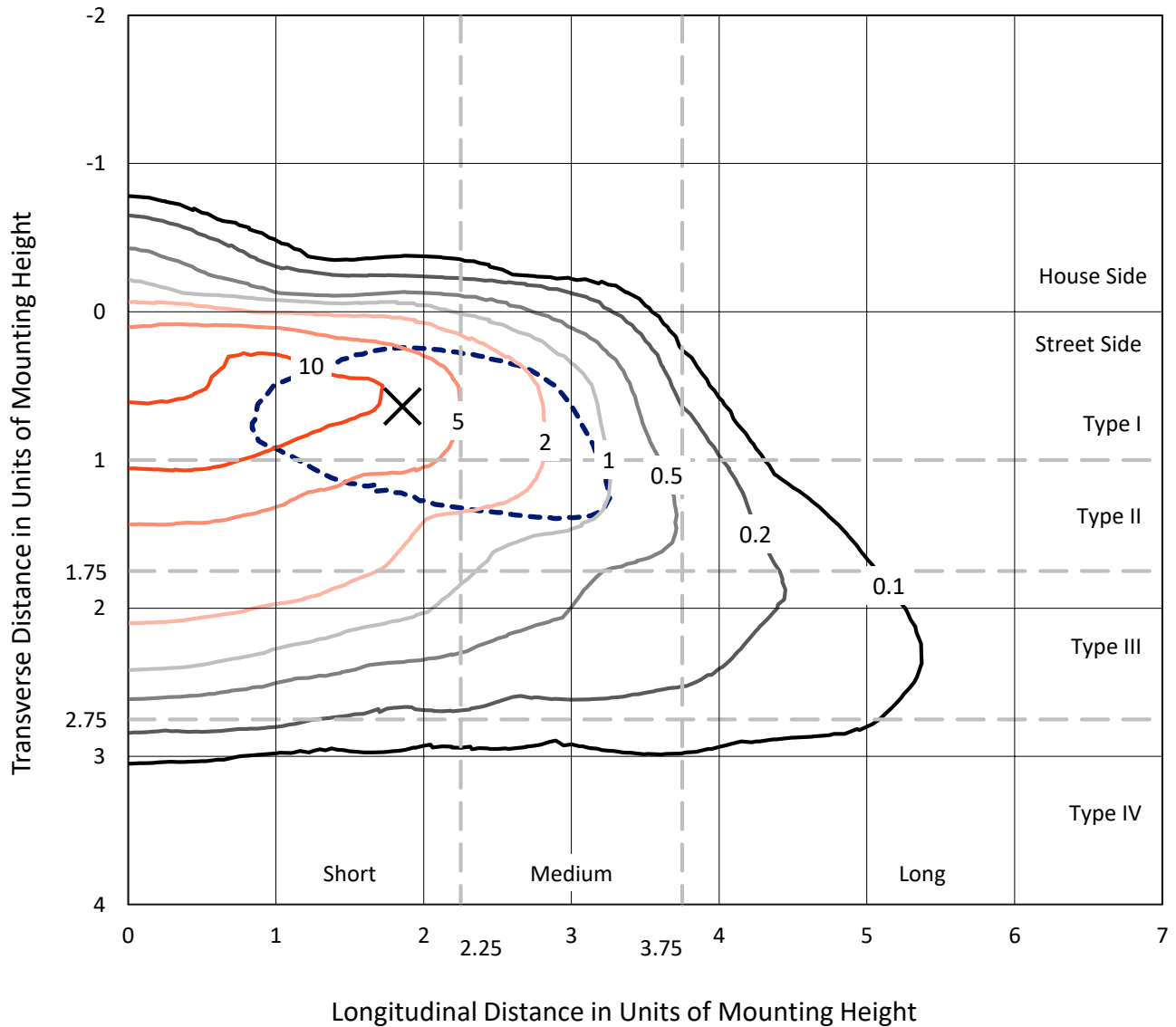
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

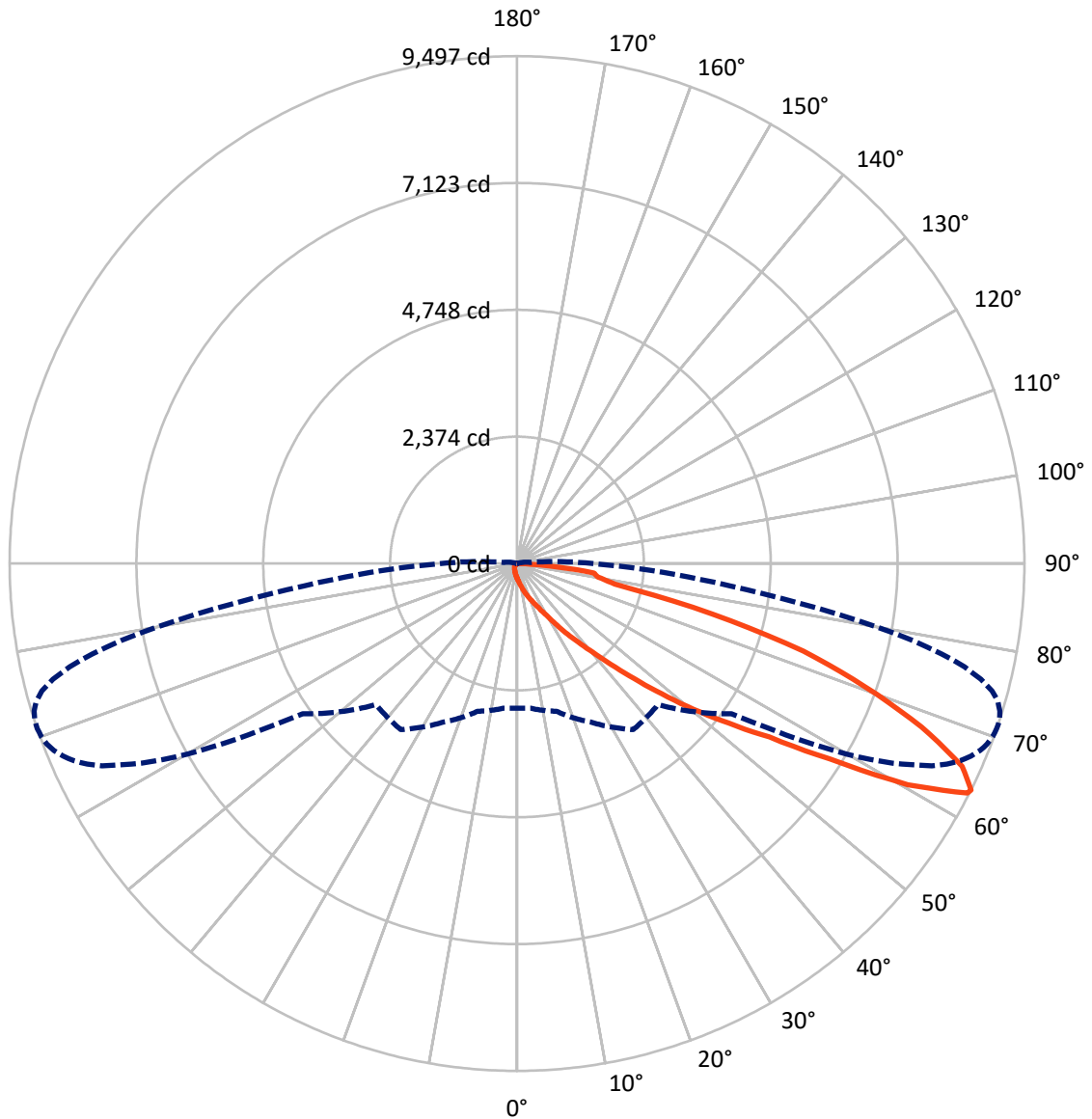
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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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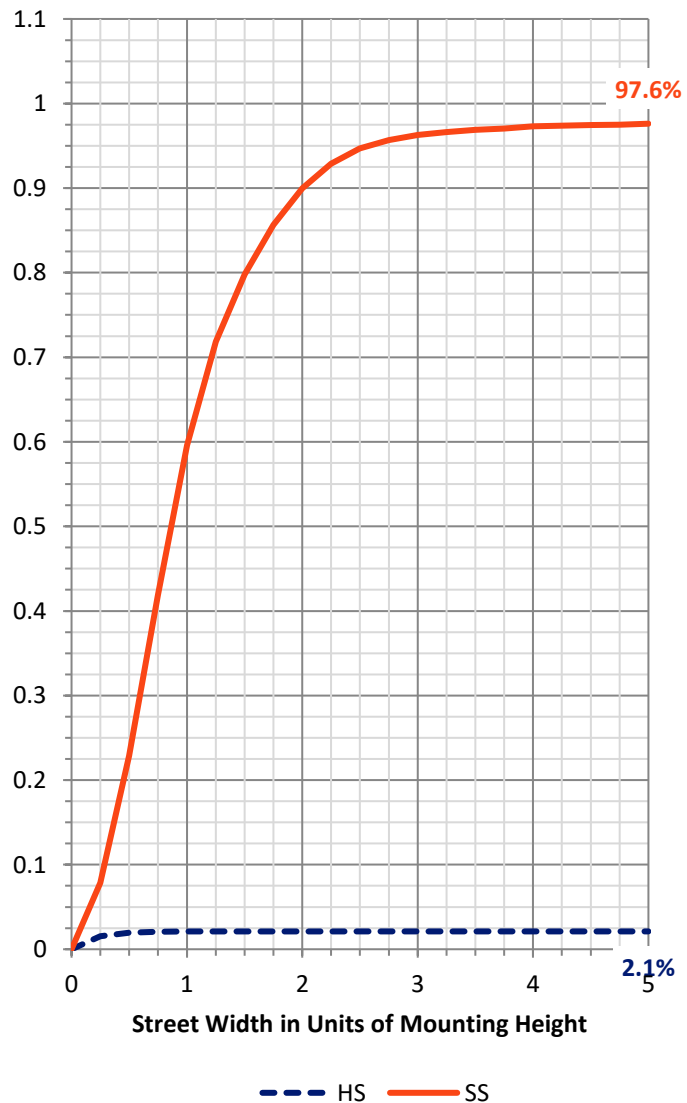
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	151.0	0.0	151.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6963.2	0.0	6963.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	7114.2	0.0	7114.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	0.4
10°-20°	117.0	1.6
20°-30°	237.6	3.3
30°-40°	580.5	8.2
40°-50°	1298.2	18.2
50°-60°	1825.4	25.7
60°-70°	2146.6	30.2
70°-80°	775.1	10.9
80°-90°	103.7	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°	7114.2	100.0
0°-180°	7114.2	100.0



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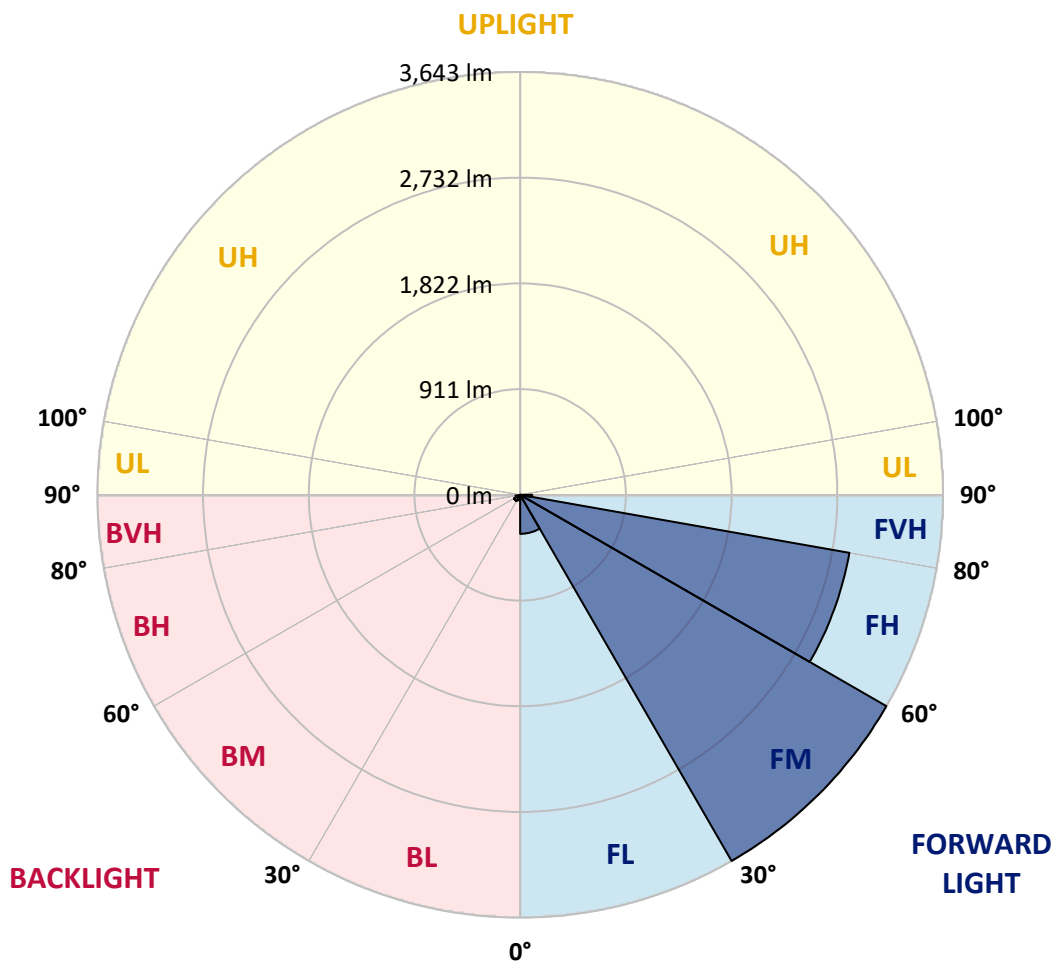
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.2	4.7			
FM (30°-60°)	3643.3	51.2			
FH (60°-80°)	2880.3	40.5			G2/5000
FVH (80°-90°)	103.4	1.5			G2/225
BL (0°-30°)	48.6	0.7	B0/110		
BM (30°-60°)	60.8	0.9	B0/220		
BH (60°-80°)	41.4	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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	357.0	360.8	358.2	351.8	344.0	333.7	324.6	324.6	323.4	319.4	320.7
5°	468.2	469.4	464.3	448.8	434.6	412.6	388.0	385.4	382.8	379.0	377.7
7.5°	576.8	582.0	576.8	560.0	531.5	497.9	459.1	455.3	447.5	447.5	442.3
10°	688.1	688.1	682.9	663.4	637.6	589.8	540.6	534.2	525.1	522.5	514.7
12.5°	767.0	767.0	764.3	754.0	733.3	690.6	631.1	624.6	613.0	609.1	600.1
15°	798.0	798.0	799.3	808.3	809.6	790.2	728.2	723.0	711.4	701.0	697.1
17.5°	817.4	816.1	816.1	829.0	852.3	865.2	825.1	820.0	807.0	801.8	789.0
20°	860.1	857.4	849.7	849.7	871.7	917.0	917.0	915.7	901.4	897.6	891.1
22.5°	923.4	920.9	897.6	878.2	888.5	945.4	998.5	995.8	990.7	985.5	981.6
25°	1026.9	1017.8	977.8	920.9	911.8	972.6	1060.6	1067.0	1070.9	1070.9	1073.4
27.5°	1183.4	1171.8	1100.6	994.6	954.5	1016.6	1129.0	1142.0	1153.7	1156.2	1167.8
30°	1400.6	1380.0	1277.8	1122.6	1030.8	1081.2	1229.9	1244.2	1261.0	1266.2	1284.2
32.5°	1757.6	1746.0	1647.7	1414.9	1218.3	1208.0	1370.9	1389.0	1411.0	1420.1	1442.1
35°	2300.8	2303.4	2223.2	2013.7	1742.1	1599.8	1623.1	1638.6	1646.4	1673.5	1685.2
37.5°	2669.4	2675.8	2694.0	2611.2	2417.2	2272.4	2090.0	2106.8	2066.7	2070.6	2071.9
40°	2871.2	2891.8	2997.9	3078.1	3062.6	2978.5	2832.4	2841.4	2766.4	2749.6	2668.1
42.5°	3005.7	3032.8	3202.2	3450.6	3577.4	3653.6	3620.0	3616.2	3557.9	3535.9	3467.4
45°	3089.8	3114.3	3327.7	3693.8	3986.0	4208.5	4300.3	4310.6	4261.5	4239.5	4182.6
47.5°	3085.8	3114.3	3343.2	3784.2	4215.0	4570.6	4829.3	4842.2	4871.9	4852.6	4856.4
50°	2915.1	2942.3	3172.5	3630.3	4147.7	4736.2	5209.5	5250.9	5298.7	5331.0	5346.6
52.5°	2708.2	2727.6	2931.9	3366.5	3860.6	4667.6	5434.6	5505.7	5576.8	5637.6	5680.2
55°	2631.9	2653.9	2814.2	3175.1	3630.3	4380.5	5539.3	5644.1	5745.0	5844.5	5926.0
57.5°	2672.0	2692.7	2807.8	3084.6	3493.3	4077.8	5569.0	5732.0	5897.5	6059.2	6219.6
60°	2819.4	2841.4	2939.7	3168.6	3457.0	3903.2	5452.6	5723.0	5998.4	6280.4	6545.5
62.5°	2761.2	2770.3	2915.1	3316.1	3715.7	3754.5	5029.8	5407.4	5827.7	6262.2	6690.3
63°	2705.6	2716.0	2863.4	3276.0	3794.6	3732.6	4899.1	5297.4	5741.0	6209.2	6674.8
65°	2453.4	2454.7	2567.3	2893.1	3706.6	3771.4	4317.1	4697.4	5206.9	5768.2	6356.6
67.5°	1831.4	1822.3	1931.0	2179.3	2910.0	3772.6	3705.4	3918.7	4273.1	4771.0	5298.7
70°	649.3	635.0	810.9	1155.0	1813.2	3085.8	3184.2	3198.4	3296.6	3565.7	3896.8
72.5°	210.8	214.7	258.6	422.9	835.5	2077.0	2882.8	2838.8	2813.0	2811.7	2855.7
75°	84.1	85.4	103.4	187.5	375.0	1001.0	2524.6	2549.1	2558.2	2571.1	2585.4
77.5°	40.1	44.0	58.2	104.7	186.2	495.4	1806.8	2015.0	2134.0	2225.8	2281.4
80°	14.2	16.8	32.3	64.6	86.6	227.6	951.9	1148.5	1323.0	1548.1	1742.1
82.5°	0.0	0.0	6.5	45.3	47.8	91.8	390.6	457.8	523.8	679.0	871.7
85°	0.0	0.0	0.0	13.0	14.2	15.5	131.9	159.0	178.5	208.2	240.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	7.8	19.4	29.8
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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	318.2	316.9	316.9	314.2	313.0	310.4	309.1	305.2	303.9	303.9	303.9
5°	376.3	371.2	368.6	362.2	358.2	357.0	350.5	347.9	344.0	345.3	338.9
7.5°	441.0	432.0	428.1	419.0	416.5	407.4	404.8	398.3	394.5	386.7	384.1
10°	512.2	500.5	494.1	479.8	475.9	469.4	461.7	453.9	447.5	439.8	435.8
12.5°	593.6	583.3	578.1	558.7	549.7	540.6	530.2	519.9	509.6	503.1	494.1
15°	689.4	672.6	667.4	649.3	633.8	622.1	607.8	595.0	587.2	574.2	565.2
17.5°	783.8	767.0	763.0	735.9	719.1	711.4	695.8	679.0	664.8	651.8	637.6
20°	878.2	866.6	856.2	830.3	812.2	799.3	778.6	761.8	750.2	732.0	713.9
22.5°	972.6	961.0	953.2	926.0	909.2	891.1	873.0	854.9	838.1	816.1	795.4
25°	1069.6	1061.8	1057.9	1033.4	1017.8	1001.0	983.0	962.2	941.5	917.0	895.0
27.5°	1170.5	1173.0	1165.3	1160.1	1143.3	1131.7	1103.2	1089.0	1073.4	1043.7	1016.6
30°	1298.5	1306.2	1303.7	1307.5	1297.2	1289.4	1267.4	1249.4	1231.3	1202.8	1171.8
32.5°	1460.2	1470.5	1475.7	1489.9	1484.7	1482.2	1475.7	1449.8	1436.9	1387.8	1374.8
35°	1709.8	1704.6	1726.6	1738.2	1733.0	1730.5	1722.7	1708.5	1693.0	1658.0	1625.7
37.5°	2034.4	2039.6	2047.4	2024.1	2008.6	2007.2	1983.9	1969.8	1947.8	1909.0	1870.2
40°	2629.3	2597.0	2560.8	2462.5	2419.8	2395.2	2326.7	2307.3	2269.8	2216.7	2176.6
42.5°	3402.7	3370.4	3261.8	3097.5	3009.5	2888.0	2832.4	2763.8	2710.8	2624.2	2577.6
45°	4171.0	4077.8	4064.9	3873.5	3764.9	3604.5	3504.9	3389.8	3269.5	3155.7	3073.0
47.5°	4818.9	4798.2	4734.9	4618.5	4517.6	4383.0	4255.0	4077.8	3953.7	3792.0	3643.3
50°	5337.5	5336.2	5313.0	5245.7	5161.7	5053.0	4940.5	4790.5	4649.5	4451.6	4292.6
52.5°	5725.5	5746.2	5754.0	5733.3	5701.0	5605.3	5548.3	5422.9	5303.9	5135.8	4963.8
55°	6010.1	6086.4	6125.2	6169.1	6160.1	6126.5	6123.8	6042.4	5988.1	5854.9	5733.3
57.5°	6361.8	6487.3	6607.6	6821.0	6828.7	6903.8	6942.6	6981.4	6991.7	6938.6	6898.6
60°	6809.4	7065.4	7293.0	7739.2	7855.6	8039.3	8158.2	8287.6	8397.5	8406.6	8404.0
62.5°	7124.9	7519.4	7886.6	8548.9	8775.2	8987.3	9146.3	9271.8	9348.1	9425.7	9461.9
63°	7133.9	7565.9	7956.5	8639.4	8877.4	9079.1	9230.4	9346.8	9427.0	9473.6	9496.9
65°	6915.4	7439.2	7904.8	8585.0	8808.8	9011.8	9090.7	9167.0	9205.8	9223.9	9155.4
67.5°	5861.4	6373.5	6916.6	7677.1	7868.6	8111.7	8176.4	8215.2	8233.3	8229.4	8171.2
70°	4383.0	4812.5	5416.4	6285.5	6539.0	6777.0	6924.4	6987.8	7008.5	7002.0	6915.4
72.5°	3060.0	3312.2	3810.2	4777.5	5122.9	5428.1	5610.4	5704.8	5724.2	5685.4	5605.3
75°	2569.8	2582.8	2695.3	3224.2	3547.6	3873.5	4079.1	4138.6	4099.8	3982.2	3777.8
77.5°	2294.3	2322.8	2322.8	2401.7	2465.0	2555.6	2575.0	2430.2	2262.0	2044.7	1868.9
80°	1924.5	2024.1	2093.9	2152.1	2158.6	2140.5	2092.6	2011.1	1881.8	1716.2	1532.6
82.5°	1169.2	1365.8	1445.9	1746.0	1893.4	1993.0	1985.3	1876.6	1778.3	1606.3	1449.8
85°	294.9	318.2	345.3	448.8	503.1	614.3	684.2	716.5	728.2	668.6	605.3
87.5°	28.5	19.4	32.3	24.6	34.9	25.8	34.9	32.3	40.1	42.6	46.6
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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	301.4	300.1	298.7	297.4	296.2	294.9	292.3	292.3	289.7	288.4	287.1
5°	335.0	332.4	331.1	328.5	324.6	322.0	318.2	313.0	309.1	307.8	305.2
7.5°	377.7	371.2	368.6	364.7	359.5	351.8	346.6	342.7	336.2	332.4	324.6
10°	425.5	419.0	411.3	403.5	395.8	386.7	380.2	375.0	364.7	359.5	350.5
12.5°	486.3	474.6	465.6	455.3	444.9	434.6	426.8	411.3	402.2	390.6	382.8
15°	548.4	538.0	527.7	514.7	499.2	482.4	474.6	460.4	448.8	430.6	420.3
17.5°	623.4	604.0	588.5	573.0	558.7	543.2	527.7	505.7	488.9	473.4	452.6
20°	697.1	673.8	657.0	636.3	615.6	591.0	573.0	557.4	534.2	513.4	491.4
22.5°	776.0	752.7	725.5	704.9	676.4	657.0	632.4	606.6	583.3	556.2	529.0
25°	871.7	847.1	816.1	789.0	756.6	729.4	699.7	669.9	641.5	610.5	575.5
27.5°	989.4	963.5	929.9	897.6	854.9	821.3	792.8	752.7	716.5	677.7	637.6
30°	1138.2	1109.7	1068.3	1021.8	979.0	941.5	901.4	848.4	808.3	761.8	710.0
32.5°	1332.1	1298.5	1242.9	1198.9	1145.9	1096.7	1041.1	988.1	931.2	870.4	810.9
35°	1576.6	1545.5	1480.9	1416.2	1358.0	1299.8	1229.9	1169.2	1089.0	1015.3	939.0
37.5°	1830.1	1774.4	1715.0	1645.1	1572.6	1502.8	1417.4	1333.4	1241.6	1161.4	1065.7
40°	2119.8	2052.5	2003.4	1928.3	1826.2	1726.6	1647.7	1543.0	1427.8	1320.5	1208.0
42.5°	2516.8	2441.8	2353.8	2240.0	2166.3	2049.9	1947.8	1823.6	1672.2	1552.0	1416.2
45°	2975.9	2873.8	2788.4	2678.5	2589.2	2444.4	2325.4	2159.8	2008.6	1850.7	1685.2
47.5°	3499.8	3373.0	3248.8	3140.2	2997.9	2855.7	2704.3	2528.5	2334.5	2161.1	1964.6
50°	4101.1	3921.4	3749.4	3609.7	3414.4	3250.1	3085.8	2888.0	2673.3	2474.2	2250.4
52.5°	4769.8	4561.5	4333.9	4119.2	3892.9	3682.1	3484.2	3256.6	3017.3	2774.2	2524.6
55°	5576.8	5420.3	5152.6	4879.7	4577.0	4295.1	4040.3	3758.4	3467.4	3147.9	2885.4
57.5°	6840.4	6764.1	6540.3	6267.4	5873.0	5530.2	5098.2	4753.0	4331.4	3891.6	3552.7
60°	8552.7	8458.3	8332.9	8111.7	7798.7	7333.1	6857.2	6320.5	5679.0	5069.8	4491.7
62.5°	9465.8	9432.2	9330.0	9177.4	8885.1	8517.8	8038.0	7448.2	6724.0	5984.2	5247.0
63°	9493.0	9450.3	9362.3	9207.1	8949.8	8594.1	8123.4	7550.4	6841.7	6087.7	5335.0
65°	9125.7	9108.9	9019.6	8850.2	8674.3	8402.7	8038.0	7545.2	6950.3	6237.7	5488.9
67.5°	8093.6	8043.1	7906.1	7854.3	7731.4	7542.6	7264.6	6925.8	6500.2	5940.2	5293.5
70°	6845.5	6770.6	6598.5	6506.7	6356.6	6237.7	6068.2	5826.4	5563.8	5173.3	4690.9
72.5°	5522.5	5367.3	5209.5	4970.2	4760.7	4548.6	4361.0	4190.3	3901.9	3744.2	3378.2
75°	3586.4	3304.4	3034.2	2672.0	2346.1	2057.7	1777.0	1634.7	1338.6	1218.3	1046.3
77.5°	1702.0	1544.2	1332.1	1167.8	958.3	782.5	638.9	479.8	376.3	294.9	225.0
80°	1373.5	1240.3	1112.2	963.5	805.8	642.8	492.7	368.6	261.3	181.0	128.0
82.5°	1224.8	1079.9	922.2	820.0	712.6	583.3	478.6	390.6	288.4	210.8	143.5
85°	475.9	401.0	309.1	252.2	196.6	161.7	146.2	100.9	78.9	62.1	47.8
87.5°	41.4	33.6	27.1	18.1	19.4	10.3	11.6	7.8	6.5	6.5	5.2
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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	285.8	284.6	283.2	280.6	280.6	278.1	276.8	275.4	269.0	254.8	243.1
5°	300.1	297.4	294.9	291.0	288.4	284.6	281.9	278.1	263.8	236.6	213.4
7.5°	320.7	315.6	311.7	303.9	300.1	294.9	291.0	284.6	261.3	219.8	187.5
10°	345.3	336.2	329.8	320.7	313.0	306.5	300.1	291.0	258.6	201.8	164.2
12.5°	375.0	364.7	351.8	341.4	331.1	322.0	313.0	301.4	254.8	186.2	146.2
15°	404.8	389.3	380.2	366.0	351.8	338.9	325.9	315.6	256.1	169.4	130.6
17.5°	438.4	422.9	403.5	388.0	372.5	355.7	340.2	319.4	249.6	156.5	119.0
20°	470.8	448.8	430.6	411.3	389.3	368.6	349.2	331.1	244.4	143.5	108.6
22.5°	505.7	479.8	456.6	432.0	404.8	381.5	358.2	335.0	235.4	131.9	99.6
25°	548.4	518.6	485.0	455.3	426.8	398.3	368.6	340.2	226.3	121.6	93.1
27.5°	600.1	561.3	527.7	490.2	450.1	413.8	381.5	350.5	217.3	113.8	86.6
30°	666.1	620.8	573.0	525.1	482.4	441.0	395.8	357.0	208.2	106.1	80.2
32.5°	754.0	697.1	638.9	583.3	526.4	473.4	425.5	375.0	203.0	99.6	73.7
35°	870.4	796.7	725.5	655.7	587.2	522.5	460.4	403.5	203.0	91.8	65.9
37.5°	980.3	895.0	804.5	717.8	636.3	561.3	487.6	419.0	192.7	85.4	59.5
40°	1099.4	997.1	891.1	789.0	690.6	597.5	513.4	434.6	183.7	77.6	53.0
42.5°	1281.7	1152.3	1014.0	895.0	777.3	662.2	557.4	464.3	172.0	69.8	46.6
45°	1521.0	1356.7	1193.8	1048.9	898.9	757.9	633.8	518.6	169.4	63.4	40.1
47.5°	1777.0	1583.0	1391.6	1206.6	1030.8	866.6	717.8	579.4	169.4	56.9	34.9
50°	2031.8	1788.6	1584.3	1369.6	1171.8	977.8	800.6	642.8	170.7	51.8	28.5
52.5°	2262.0	2002.1	1773.1	1524.8	1306.2	1081.2	888.5	704.9	168.2	45.3	23.3
55°	2581.4	2276.2	2011.1	1737.0	1480.9	1227.4	1008.8	798.0	169.4	40.1	19.4
57.5°	3169.9	2811.7	2492.2	2132.7	1837.8	1510.6	1245.4	989.4	185.0	33.6	14.2
60°	4014.5	3548.9	3100.1	2661.7	2286.6	1897.3	1553.3	1251.9	217.3	27.1	10.3
62.5°	4582.2	3973.0	3437.7	2953.9	2518.1	2110.7	1735.6	1392.9	239.3	22.0	6.5
63°	4640.4	4010.6	3472.6	2973.4	2528.5	2121.0	1743.4	1403.3	240.6	20.7	6.5
65°	4750.4	4075.3	3492.0	2977.2	2518.1	2106.8	1738.2	1401.9	243.1	16.8	5.2
67.5°	4624.9	3975.7	3379.4	2866.0	2427.6	2022.7	1673.5	1350.2	241.8	11.6	3.8
70°	4136.0	3598.0	3074.2	2595.7	2197.4	1831.4	1523.5	1231.3	222.5	7.8	2.6
72.5°	3036.7	2670.7	2264.6	1919.3	1655.4	1374.8	1173.0	924.7	172.0	5.2	1.3
75°	900.2	820.0	689.4	607.8	536.7	443.6	394.5	307.8	87.9	2.6	0.0
77.5°	179.8	163.0	146.2	133.2	125.4	107.4	102.2	84.1	36.2	1.3	0.0
80°	94.4	77.6	65.9	58.2	50.4	41.4	34.9	28.5	6.5	0.0	0.0
82.5°	90.6	60.8	44.0	36.2	31.0	24.6	19.4	14.2	3.8	0.0	0.0
85°	33.6	25.8	19.4	15.5	13.0	11.6	9.0	7.8	0.0	0.0	0.0
87.5°	5.2	3.8	3.8	2.6	2.6	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°	272.9	272.9	272.9	272.9	272.9	272.9	272.9
2.5°	231.5	221.1	216.0	209.5	209.5	208.2	210.8
5°	192.7	178.5	168.2	160.4	161.7	157.8	159.0
7.5°	163.0	148.7	139.7	134.5	133.2	131.9	131.9
10°	141.0	128.0	120.2	116.4	115.1	115.1	115.1
12.5°	125.4	112.5	106.1	103.4	103.4	102.2	102.2
15°	112.5	102.2	95.7	93.1	93.1	91.8	93.1
17.5°	102.2	91.8	86.6	84.1	84.1	82.8	82.8
20°	93.1	84.1	78.9	75.0	75.0	73.7	75.0
22.5°	85.4	76.3	69.8	67.3	65.9	64.6	65.9
25°	77.6	68.6	62.1	58.2	56.9	56.9	55.6
27.5°	71.1	62.1	54.3	50.4	49.1	49.1	47.8
30°	64.6	54.3	46.6	42.6	41.4	41.4	41.4
32.5°	58.2	46.6	40.1	36.2	34.9	34.9	34.9
35°	51.8	40.1	33.6	29.8	28.5	28.5	28.5
37.5°	44.0	33.6	25.8	23.3	22.0	20.7	20.7
40°	37.5	25.8	19.4	16.8	14.2	14.2	14.2
42.5°	31.0	20.7	14.2	10.3	9.0	7.8	9.0
45°	25.8	15.5	9.0	5.2	3.8	3.8	3.8
47.5°	20.7	10.3	3.8	1.3	1.3	1.3	1.3
50°	15.5	6.5	1.3	0.0	0.0	1.3	1.3
52.5°	11.6	3.8	0.0	0.0	0.0	0.0	0.0
55°	6.5	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.6	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)