

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: P163261

Luminaire Tested: **LDRL-SL2-F04-E-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163261
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-F04-E-7030-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: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5364.1 lumens
Efficiency: N/A
Efficacy: 52.5 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): 102.2
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

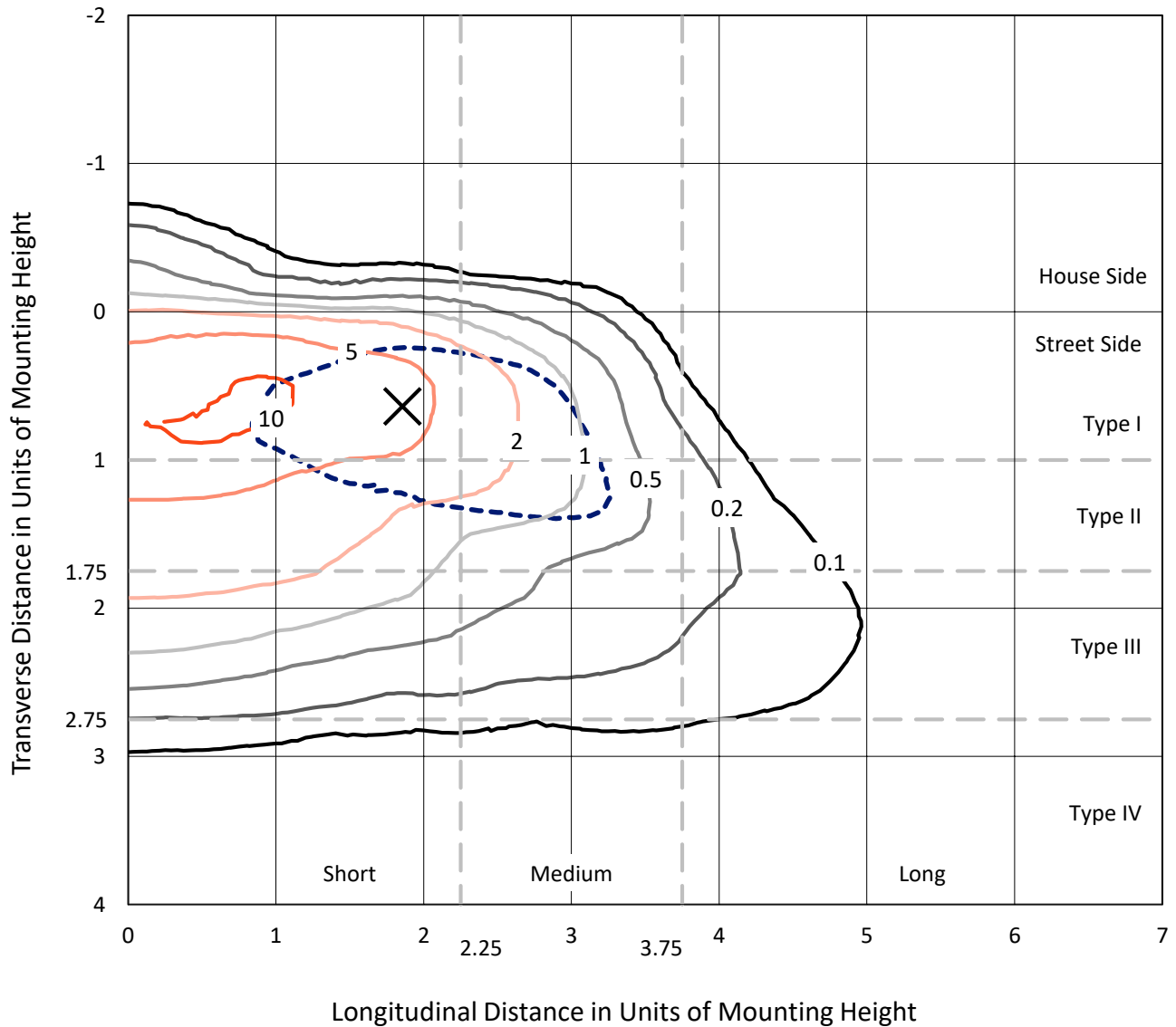


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Iso-Footcandle Lines of Horizontal Illumination

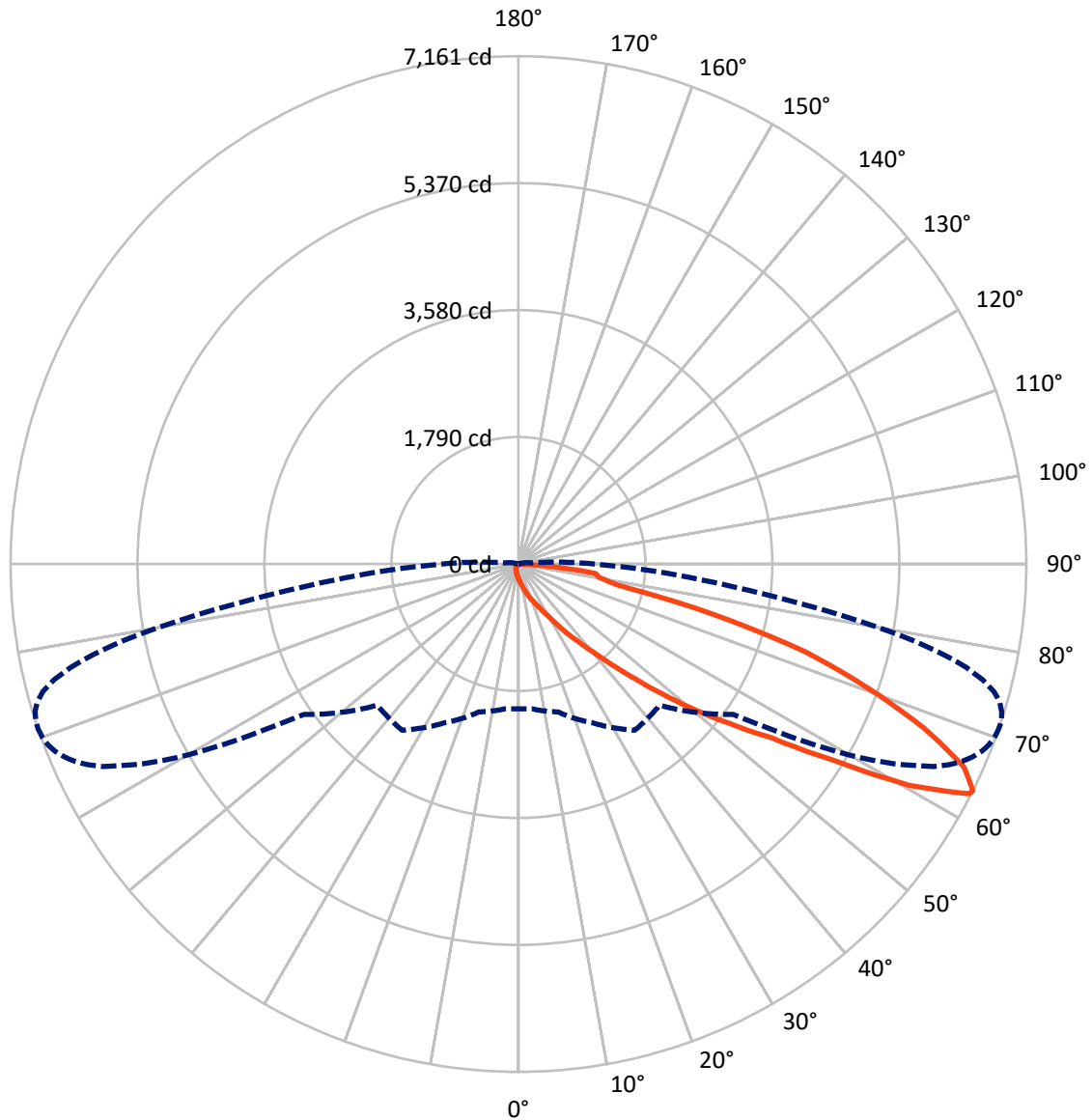
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 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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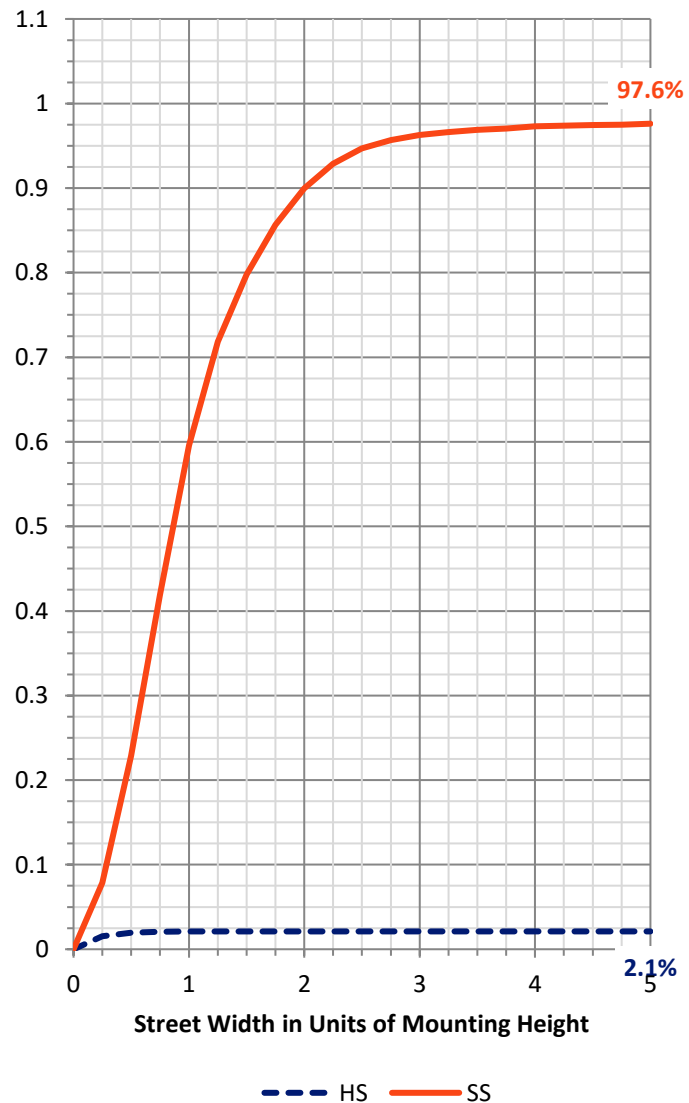
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	113.9	0.0	113.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5250.2	0.0	5250.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	5364.1	0.0	5364.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	0.4
10°-20°	88.2	1.6
20°-30°	179.1	3.3
30°-40°	437.7	8.2
40°-50°	978.8	18.2
50°-60°	1376.4	25.7
60°-70°	1618.5	30.2
70°-80°	584.4	10.9
80°-90°	78.2	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°	5364.1	100.0
0°-180°	5364.1	100.0



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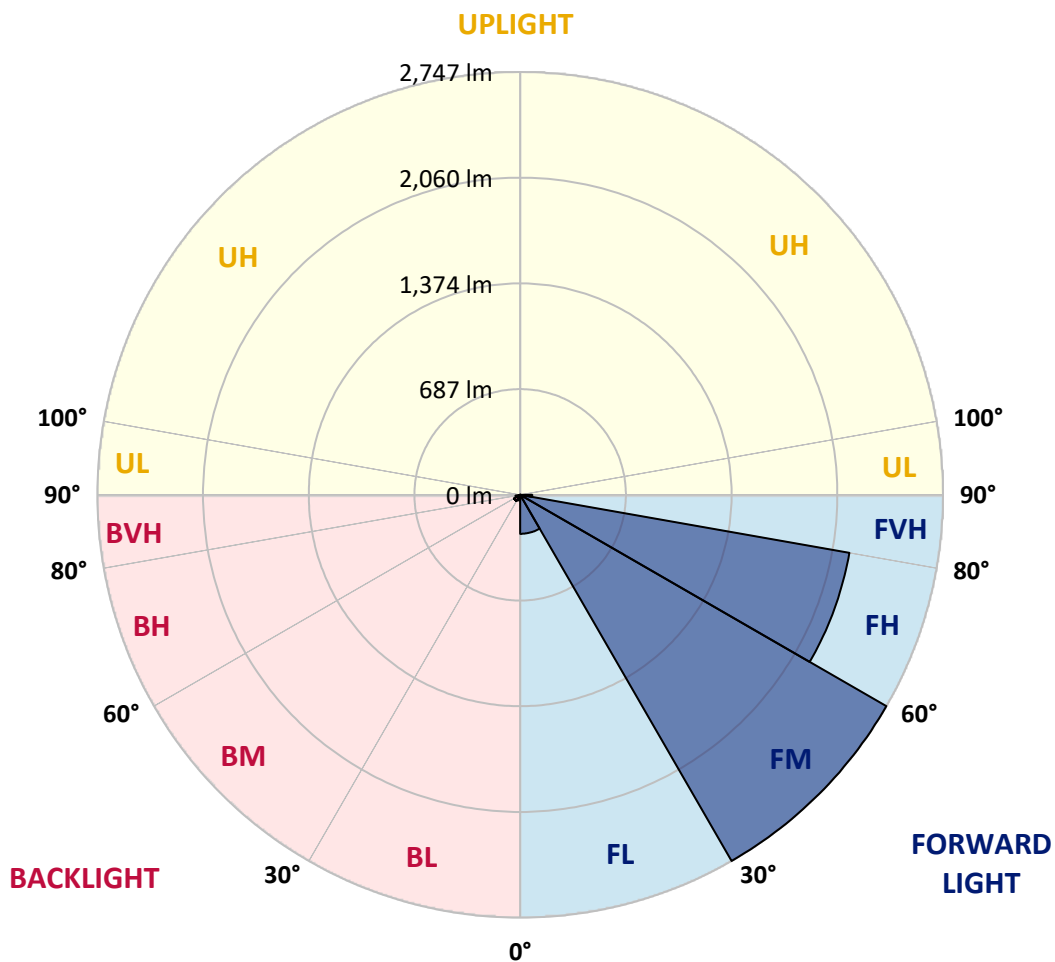
CATALOG NUMBER: LDRL-SL2-F04-E-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.5	4.7			
FM (30°-60°)	2747.0	51.2			
FH (60°-80°)	2171.7	40.5			G2/5000
FVH (80°-90°)	78.0	1.5			G1/100
BL (0°-30°)	36.6	0.7	B0/110		
BM (30°-60°)	45.9	0.9	B0/220		
BH (60°-80°)	31.2	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°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7
2.5°	269.1	272.0	270.1	265.2	259.4	251.6	244.8	244.8	243.8	240.9	241.8
5°	353.0	354.0	350.1	338.4	327.7	311.1	292.5	290.6	288.6	285.7	284.8
7.5°	434.9	438.8	434.9	422.2	400.8	375.4	346.2	343.3	337.4	337.4	333.5
10°	518.8	518.8	514.9	500.2	480.7	444.7	407.6	402.8	395.9	393.9	388.1
12.5°	578.3	578.3	576.3	568.5	552.9	520.7	475.9	471.0	462.2	459.3	452.5
15°	601.7	601.7	602.7	609.5	610.4	595.8	549.0	545.1	536.4	528.5	525.6
17.5°	616.3	615.3	615.3	625.1	642.6	652.4	622.1	618.3	608.5	604.6	594.9
20°	648.5	646.5	640.7	640.7	657.2	691.4	691.4	690.4	679.7	676.8	671.9
22.5°	696.3	694.3	676.8	662.1	669.9	712.9	752.8	750.9	747.0	743.1	740.1
25°	774.3	767.4	737.2	694.3	687.5	733.3	799.7	804.5	807.4	807.4	809.4
27.5°	892.2	883.5	829.9	749.9	719.7	766.5	851.3	861.1	869.9	871.8	880.5
30°	1056.1	1040.5	963.5	846.5	777.2	815.2	927.4	938.1	950.8	954.7	968.3
32.5°	1325.2	1316.5	1242.3	1066.8	918.6	910.8	1033.6	1047.3	1063.9	1070.7	1087.3
35°	1734.8	1736.8	1676.3	1518.3	1313.5	1206.3	1223.8	1235.5	1241.4	1261.8	1270.6
37.5°	2012.7	2017.6	2031.3	1968.8	1822.6	1713.4	1575.8	1588.5	1558.3	1561.2	1562.2
40°	2164.9	2180.4	2260.4	2320.9	2309.2	2245.8	2135.6	2142.4	2085.8	2073.2	2011.7
42.5°	2266.3	2286.7	2414.5	2601.7	2697.3	2754.8	2729.5	2726.6	2682.6	2666.1	2614.4
45°	2329.7	2348.2	2509.0	2785.1	3005.4	3173.2	3242.4	3250.2	3213.2	3196.6	3153.6
47.5°	2326.7	2348.2	2520.8	2853.3	3178.1	3446.2	3641.2	3651.0	3673.4	3658.8	3661.7
50°	2198.0	2218.5	2392.0	2737.2	3127.3	3571.0	3927.9	3959.1	3995.2	4019.6	4031.3
52.5°	2042.0	2056.6	2210.6	2538.3	2910.8	3519.3	4097.6	4151.2	4204.9	4250.7	4282.9
55°	1984.5	2001.0	2121.9	2394.0	2737.2	3302.9	4176.6	4255.6	4331.7	4406.7	4468.2
57.5°	2014.7	2030.3	2117.0	2325.7	2633.9	3074.7	4199.0	4321.9	4446.7	4568.6	4689.5
60°	2125.8	2142.4	2216.5	2389.1	2606.6	2943.0	4111.3	4315.1	4522.8	4735.4	4935.3
62.5°	2081.9	2088.8	2198.0	2500.3	2801.6	2830.9	3792.4	4077.1	4394.0	4721.7	5044.5
63°	2040.0	2047.8	2159.0	2470.1	2861.1	2814.3	3693.9	3994.2	4328.7	4681.7	5032.8
65°	1849.9	1850.8	1935.7	2181.4	2794.8	2843.6	3255.1	3541.8	3926.0	4349.2	4792.9
67.5°	1380.8	1374.0	1455.9	1643.2	2194.1	2844.5	2793.8	2954.7	3221.9	3597.3	3995.2
70°	489.6	478.8	611.4	870.8	1367.1	2326.7	2400.8	2411.6	2485.6	2688.5	2938.2
72.5°	158.9	161.9	195.0	318.8	630.0	1566.1	2173.6	2140.4	2121.0	2120.0	2153.2
75°	63.4	64.4	78.0	141.4	282.8	754.8	1903.5	1922.0	1928.8	1938.6	1949.3
77.5°	30.2	33.2	43.9	79.0	140.4	373.5	1362.3	1519.3	1609.0	1678.3	1720.2
80°	10.7	12.7	24.4	48.7	65.3	171.6	717.7	865.9	997.6	1167.2	1313.5
82.5°	0.0	0.0	4.9	34.1	36.1	69.2	294.5	345.2	394.9	511.9	657.2
85°	0.0	0.0	0.0	9.8	10.7	11.7	99.5	119.9	134.6	157.0	181.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9	5.9	14.6	22.4
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7
2.5°	239.9	238.9	238.9	236.9	236.0	234.0	233.1	230.1	229.2	229.2	229.2
5°	283.7	279.9	277.9	273.1	270.1	269.1	264.3	262.3	259.4	260.3	255.5
7.5°	332.5	325.7	322.8	316.0	314.0	307.1	305.2	300.3	297.4	291.6	289.6
10°	386.2	377.4	372.5	361.8	358.8	354.0	348.1	342.3	337.4	331.6	328.6
12.5°	447.6	439.8	435.9	421.3	414.5	407.6	399.8	392.0	384.2	379.3	372.5
15°	519.8	507.1	503.2	489.6	477.9	469.0	458.3	448.6	442.7	433.0	426.2
17.5°	590.9	578.3	575.3	554.9	542.2	536.4	524.7	511.9	501.3	491.5	480.7
20°	662.1	653.4	645.5	626.1	612.4	602.7	587.0	574.4	565.6	551.9	538.3
22.5°	733.3	724.6	718.7	698.2	685.5	671.9	658.2	644.6	631.9	615.3	599.7
25°	806.5	800.6	797.7	779.1	767.4	754.8	741.1	725.5	709.9	691.4	674.8
27.5°	882.5	884.5	878.6	874.7	862.0	853.3	831.8	821.1	809.4	786.9	766.5
30°	979.0	984.9	983.0	985.9	978.1	972.2	955.6	942.0	928.4	906.9	883.5
32.5°	1101.0	1108.7	1112.7	1123.4	1119.5	1117.5	1112.7	1093.2	1083.4	1046.4	1036.6
35°	1289.1	1285.2	1301.8	1310.6	1306.7	1304.8	1298.9	1288.2	1276.5	1250.1	1225.8
37.5°	1533.9	1537.8	1543.7	1526.1	1514.4	1513.4	1495.9	1485.2	1468.6	1439.3	1410.1
40°	1982.5	1958.1	1930.8	1856.7	1824.5	1806.0	1754.3	1739.7	1711.4	1671.4	1641.2
42.5°	2565.6	2541.3	2459.3	2335.5	2269.2	2177.5	2135.6	2083.9	2043.9	1978.6	1943.5
45°	3144.9	3074.7	3064.9	2920.6	2838.7	2717.8	2642.7	2555.9	2465.2	2379.4	2317.0
47.5°	3633.4	3617.8	3570.1	3482.3	3406.2	3304.8	3208.3	3074.7	2981.0	2859.1	2747.0
50°	4024.5	4023.5	4005.9	3955.2	3891.9	3810.0	3725.1	3612.0	3505.7	3356.5	3236.6
52.5°	4317.0	4332.6	4338.5	4322.9	4298.5	4226.3	4183.4	4088.8	3999.1	3872.3	3742.6
55°	4531.6	4589.1	4618.4	4651.5	4644.7	4619.3	4617.3	4555.9	4515.0	4414.5	4322.9
57.5°	4796.8	4891.4	4982.1	5143.0	5148.8	5205.4	5234.6	5263.9	5271.7	5231.7	5201.5
60°	5134.2	5327.3	5498.9	5835.3	5923.1	6061.6	6151.3	6248.8	6331.7	6338.5	6336.6
62.5°	5372.1	5669.5	5946.5	6445.8	6616.4	6776.4	6896.3	6990.9	7048.4	7106.9	7134.2
63°	5378.9	5704.7	5999.1	6514.0	6693.5	6845.6	6959.7	7047.4	7107.9	7143.0	7160.6
65°	5214.1	5609.1	5960.2	6473.1	6641.8	6794.9	6854.3	6911.9	6941.1	6954.8	6903.1
67.5°	4419.4	4805.6	5215.1	5788.5	5932.8	6116.2	6165.0	6194.2	6207.8	6204.9	6161.0
70°	3304.8	3628.6	4083.9	4739.2	4930.4	5109.8	5221.0	5268.8	5284.3	5279.5	5214.1
72.5°	2307.2	2497.3	2872.8	3602.2	3862.6	4092.7	4230.2	4301.4	4316.0	4286.8	4226.3
75°	1937.6	1947.4	2032.2	2431.1	2674.9	2920.6	3075.6	3120.5	3091.3	3002.5	2848.4
77.5°	1729.9	1751.4	1751.4	1810.9	1858.6	1926.9	1941.6	1832.3	1705.5	1541.7	1409.1
80°	1451.0	1526.1	1578.8	1622.7	1627.5	1613.9	1577.8	1516.4	1418.8	1294.0	1155.5
82.5°	881.6	1029.8	1090.2	1316.5	1427.6	1502.7	1496.9	1415.0	1340.8	1211.2	1093.2
85°	222.3	239.9	260.3	338.4	379.3	463.2	515.9	540.2	549.0	504.2	456.4
87.5°	21.5	14.6	24.4	18.5	26.3	19.5	26.3	24.4	30.2	32.2	35.1
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7
2.5°	227.2	226.3	225.2	224.3	223.3	222.3	220.4	220.4	218.4	217.5	216.5
5°	252.6	250.6	249.7	247.7	244.8	242.8	239.9	236.0	233.1	232.1	230.1
7.5°	284.8	279.9	277.9	275.0	271.1	265.2	261.4	258.4	253.5	250.6	244.8
10°	320.8	316.0	310.1	304.3	298.4	291.6	286.7	282.8	275.0	271.1	264.3
12.5°	366.7	357.9	351.1	343.3	335.4	327.7	321.8	310.1	303.3	294.5	288.6
15°	413.5	405.6	397.9	388.1	376.4	363.7	357.9	347.1	338.4	324.7	316.9
17.5°	470.0	455.4	443.7	432.0	421.3	409.6	397.9	381.3	368.6	356.9	341.3
20°	525.6	508.1	495.4	479.8	464.2	445.6	432.0	420.3	402.8	387.1	370.5
22.5°	585.1	567.5	547.0	531.5	510.0	495.4	476.8	457.3	439.8	419.3	398.8
25°	657.2	638.7	615.3	594.9	570.4	550.0	527.6	505.1	483.7	460.3	433.9
27.5°	746.0	726.5	701.2	676.8	644.6	619.2	597.8	567.5	540.2	511.0	480.7
30°	858.2	836.7	805.5	770.4	738.2	709.9	679.7	639.7	609.5	574.4	535.3
32.5°	1004.4	979.0	937.1	903.9	864.0	826.9	785.0	745.0	702.1	656.3	611.4
35°	1188.7	1165.3	1116.6	1067.8	1023.9	980.0	927.4	881.6	821.1	765.5	708.0
37.5°	1379.9	1337.9	1293.1	1240.4	1185.8	1133.1	1068.7	1005.4	936.2	875.7	803.5
40°	1598.3	1547.6	1510.5	1453.9	1376.9	1301.8	1242.3	1163.4	1076.6	995.6	910.8
42.5°	1897.7	1841.1	1774.8	1688.9	1633.4	1545.6	1468.6	1375.0	1260.9	1170.2	1067.8
45°	2243.8	2166.8	2102.4	2019.6	1952.2	1843.1	1753.3	1628.5	1514.4	1395.4	1270.6
47.5°	2638.8	2543.2	2449.6	2367.7	2260.4	2153.2	2039.0	1906.5	1760.2	1629.5	1481.3
50°	3092.2	2956.7	2827.0	2721.7	2574.4	2450.5	2326.7	2177.5	2015.6	1865.5	1696.8
52.5°	3596.4	3439.4	3267.7	3105.8	2935.2	2776.3	2627.1	2455.4	2275.0	2091.7	1903.5
55°	4204.9	4086.9	3885.0	3679.2	3451.1	3238.5	3046.4	2833.8	2614.4	2373.5	2175.5
57.5°	5157.6	5100.1	4931.4	4725.6	4428.2	4169.8	3844.0	3583.7	3265.8	2934.2	2678.7
60°	6448.7	6377.5	6282.9	6116.2	5880.2	5529.1	5170.3	4765.6	4281.9	3822.6	3386.7
62.5°	7137.2	7111.8	7034.8	6919.7	6699.3	6422.4	6060.6	5615.9	5069.9	4512.0	3956.2
63°	7157.6	7125.5	7059.1	6942.1	6748.1	6479.9	6125.0	5693.0	5158.6	4590.1	4022.5
65°	6880.7	6868.0	6800.7	6673.0	6540.4	6335.6	6060.6	5689.0	5240.5	4703.2	4138.6
67.5°	6102.5	6064.5	5961.1	5922.1	5829.5	5687.1	5477.4	5222.0	4901.1	4478.9	3991.3
70°	5161.5	5105.0	4975.2	4906.0	4792.9	4703.2	4575.4	4393.1	4195.1	3900.6	3536.9
72.5°	4163.9	4046.9	3927.9	3747.5	3589.6	3429.6	3288.2	3159.5	2942.0	2823.1	2547.1
75°	2704.1	2491.5	2287.7	2014.7	1768.9	1551.5	1339.9	1232.6	1009.3	918.6	788.9
77.5°	1283.3	1164.3	1004.4	880.5	722.6	590.0	481.7	361.8	283.7	222.3	169.7
80°	1035.6	935.2	838.6	726.5	607.5	484.7	371.5	277.9	197.0	136.5	96.5
82.5°	923.5	814.3	695.3	618.3	537.3	439.8	360.8	294.5	217.5	158.9	108.2
85°	358.8	302.3	233.1	190.1	148.2	121.9	110.2	76.1	59.5	46.8	36.1
87.5°	31.2	25.3	20.4	13.6	14.6	7.8	8.7	5.9	4.9	4.9	3.9
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°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7
2.5°	215.5	214.6	213.5	211.6	211.6	209.7	208.7	207.7	202.9	192.1	183.3
5°	226.3	224.3	222.3	219.4	217.5	214.6	212.6	209.7	198.9	178.4	160.9
7.5°	241.8	238.0	235.0	229.2	226.3	222.3	219.4	214.6	197.0	165.8	141.4
10°	260.3	253.5	248.6	241.8	236.0	231.1	226.3	219.4	195.0	152.1	123.8
12.5°	282.8	275.0	265.2	257.4	249.7	242.8	236.0	227.2	192.1	140.4	110.2
15°	305.2	293.5	286.7	276.0	265.2	255.5	245.7	238.0	193.1	127.8	98.5
17.5°	330.6	318.8	304.3	292.5	280.8	268.2	256.5	240.9	188.2	118.0	89.7
20°	355.0	338.4	324.7	310.1	293.5	277.9	263.3	249.7	184.3	108.2	81.9
22.5°	381.3	361.8	344.2	325.7	305.2	287.7	270.1	252.6	177.5	99.5	75.1
25°	413.5	391.1	365.7	343.3	321.8	300.3	277.9	256.5	170.6	91.7	70.2
27.5°	452.5	423.2	397.9	369.6	339.4	312.0	287.7	264.3	163.8	85.8	65.3
30°	502.2	468.1	432.0	395.9	363.7	332.5	298.4	269.1	157.0	80.0	60.4
32.5°	568.5	525.6	481.7	439.8	396.9	356.9	320.8	282.8	153.1	75.1	55.6
35°	656.3	600.7	547.0	494.4	442.7	393.9	347.1	304.3	153.1	69.2	49.7
37.5°	739.2	674.8	606.6	541.2	479.8	423.2	367.6	316.0	145.3	64.4	44.9
40°	828.9	751.8	671.9	594.9	520.7	450.5	387.1	327.7	138.5	58.5	40.0
42.5°	966.4	868.8	764.5	674.8	586.1	499.3	420.3	350.1	129.7	52.7	35.1
45°	1146.8	1023.0	900.1	790.8	677.7	571.5	477.9	391.1	127.8	47.8	30.2
47.5°	1339.9	1193.6	1049.3	909.8	777.2	653.4	541.2	436.9	127.8	42.9	26.3
50°	1532.0	1348.6	1194.6	1032.7	883.5	737.2	603.6	484.7	128.7	39.0	21.5
52.5°	1705.5	1509.6	1336.9	1149.7	984.9	815.2	669.9	531.5	126.8	34.1	17.6
55°	1946.4	1716.3	1516.4	1309.7	1116.6	925.4	760.6	601.7	127.8	30.2	14.6
57.5°	2390.1	2120.0	1879.1	1608.1	1385.7	1139.0	939.1	746.0	139.5	25.3	10.7
60°	3026.9	2675.8	2337.4	2006.9	1724.1	1430.5	1171.2	943.9	163.8	20.4	7.8
62.5°	3455.0	2995.6	2592.0	2227.2	1898.6	1591.5	1308.6	1050.2	180.4	16.6	4.9
63°	3498.8	3023.9	2618.3	2241.9	1906.5	1599.3	1314.5	1058.1	181.4	15.6	4.9
65°	3581.8	3072.7	2632.9	2244.8	1898.6	1588.5	1310.6	1057.0	183.3	12.7	3.9
67.5°	3487.1	2997.6	2548.1	2160.9	1830.4	1525.1	1261.8	1018.1	182.3	8.7	2.9
70°	3118.5	2712.9	2318.0	1957.1	1656.8	1380.8	1148.7	928.4	167.7	5.9	1.9
72.5°	2289.7	2013.7	1707.5	1447.1	1248.2	1036.6	884.5	697.2	129.7	3.9	1.0
75°	678.7	618.3	519.8	458.3	404.7	334.5	297.4	232.1	66.3	1.9	0.0
77.5°	135.5	122.9	110.2	100.4	94.6	80.9	77.0	63.4	27.3	1.0	0.0
80°	71.2	58.5	49.7	43.9	38.0	31.2	26.3	21.5	4.9	0.0	0.0
82.5°	68.3	45.8	33.2	27.3	23.4	18.5	14.6	10.7	2.9	0.0	0.0
85°	25.3	19.5	14.6	11.7	9.8	8.7	6.8	5.9	0.0	0.0	0.0
87.5°	3.9	2.9	2.9	1.9	1.9	1.0	1.0	1.0	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°	205.7	205.7	205.7	205.7	205.7	205.7	205.7
2.5°	174.6	166.7	162.9	158.0	158.0	157.0	158.9
5°	145.3	134.6	126.8	120.9	121.9	119.0	119.9
7.5°	122.9	112.1	105.3	101.4	100.4	99.5	99.5
10°	106.3	96.5	90.7	87.8	86.8	86.8	86.8
12.5°	94.6	84.8	80.0	78.0	78.0	77.0	77.0
15°	84.8	77.0	72.1	70.2	70.2	69.2	70.2
17.5°	77.0	69.2	65.3	63.4	63.4	62.4	62.4
20°	70.2	63.4	59.5	56.6	56.6	55.6	56.6
22.5°	64.4	57.5	52.7	50.7	49.7	48.7	49.7
25°	58.5	51.7	46.8	43.9	42.9	42.9	41.9
27.5°	53.6	46.8	41.0	38.0	37.0	37.0	36.1
30°	48.7	41.0	35.1	32.2	31.2	31.2	31.2
32.5°	43.9	35.1	30.2	27.3	26.3	26.3	26.3
35°	39.0	30.2	25.3	22.4	21.5	21.5	21.5
37.5°	33.2	25.3	19.5	17.6	16.6	15.6	15.6
40°	28.3	19.5	14.6	12.7	10.7	10.7	10.7
42.5°	23.4	15.6	10.7	7.8	6.8	5.9	6.8
45°	19.5	11.7	6.8	3.9	2.9	2.9	2.9
47.5°	15.6	7.8	2.9	1.0	1.0	1.0	1.0
50°	11.7	4.9	1.0	0.0	0.0	1.0	1.0
52.5°	8.7	2.9	0.0	0.0	0.0	0.0	0.0
55°	4.9	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	2.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	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)