

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: P163265

Luminaire Tested: **LDRL-SL2-E05-E-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163265
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-E05-E-8030-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7505.4 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

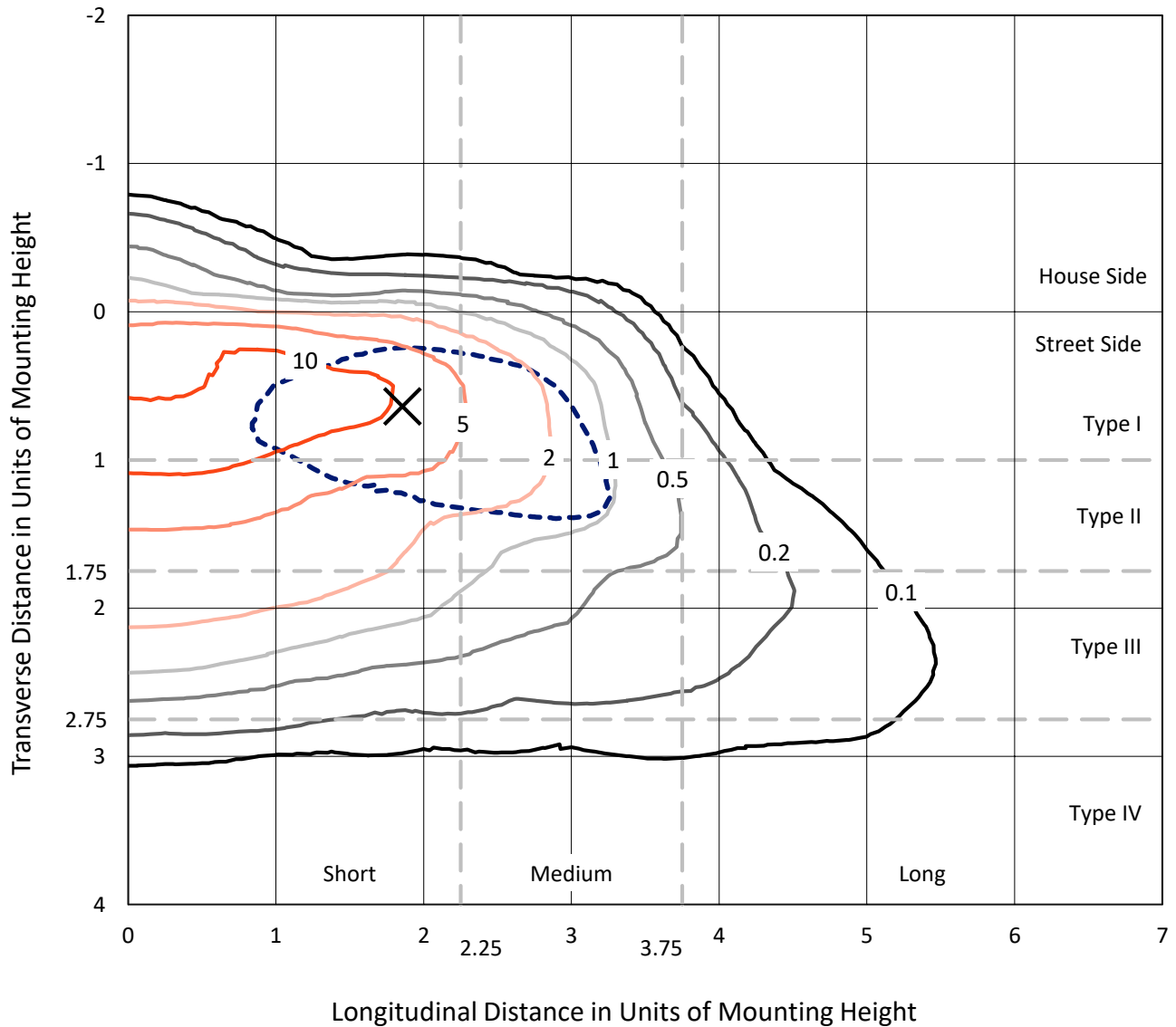
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

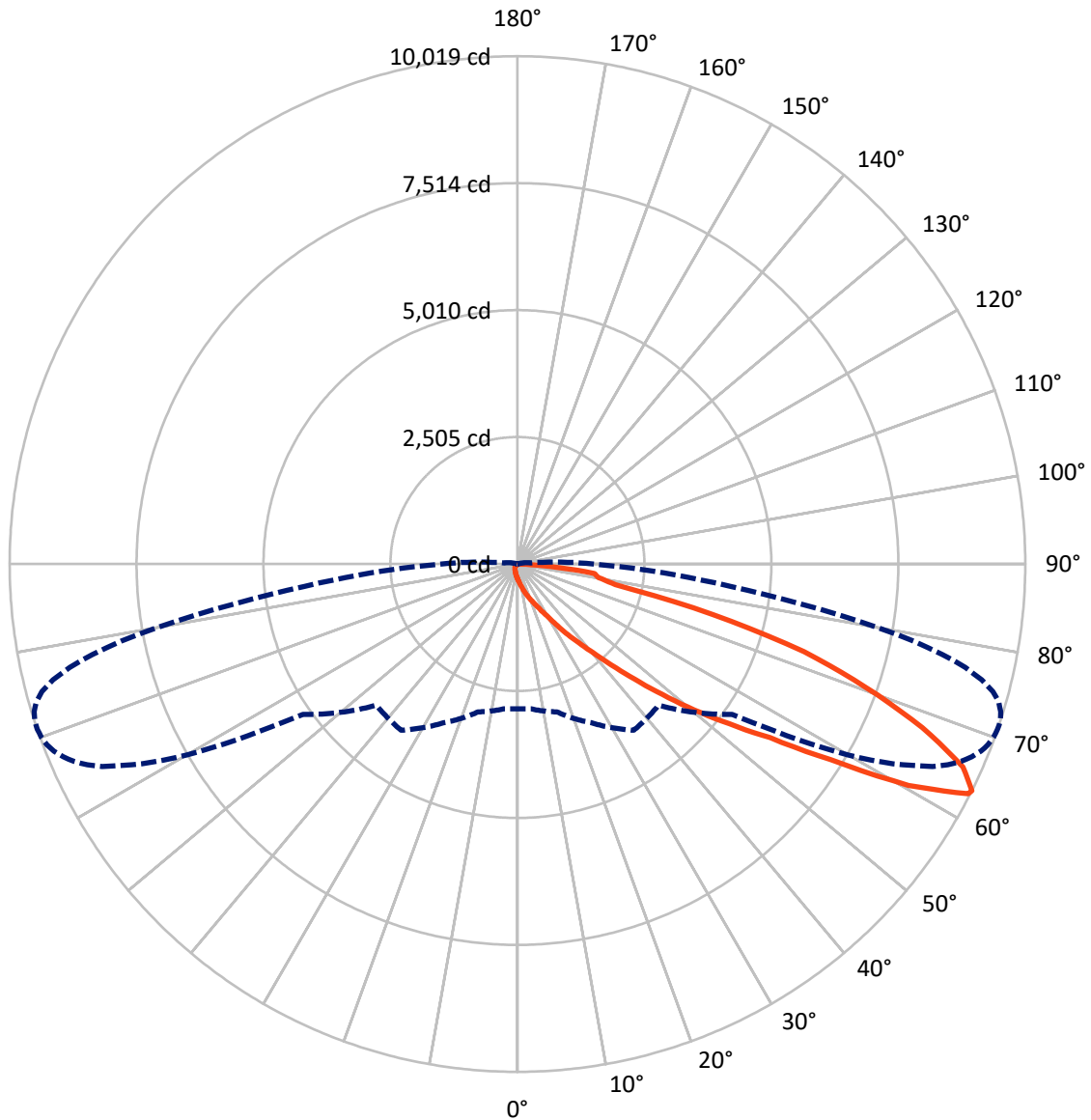
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 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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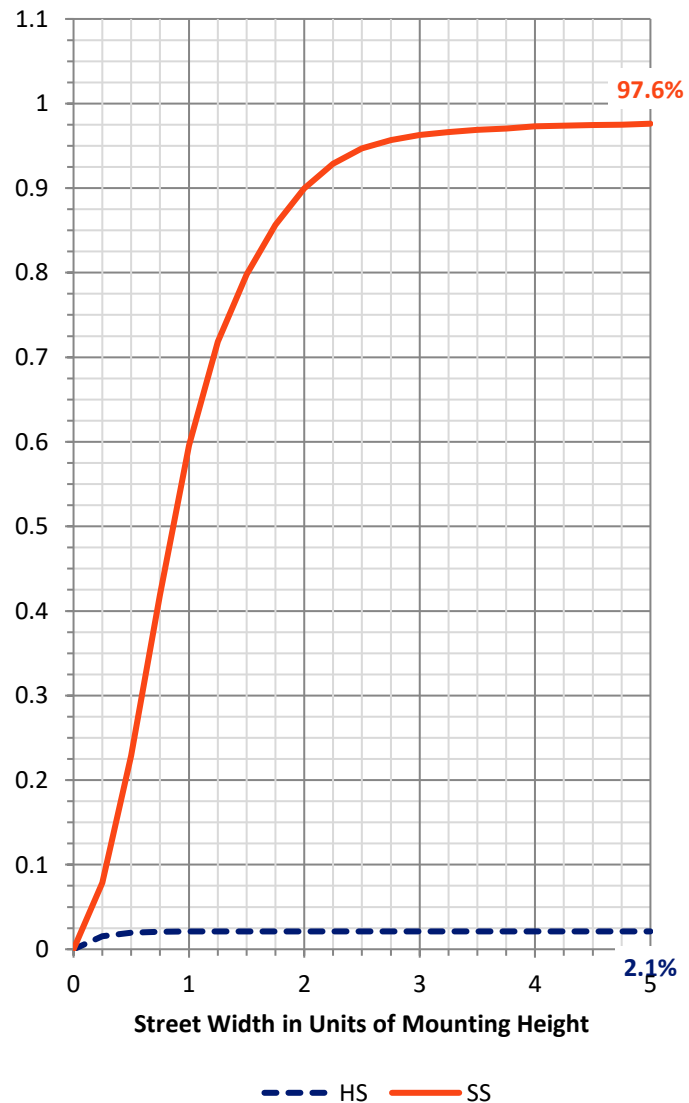
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	159.4	0.0	159.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7346.1	0.0	7346.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	7505.4	0.0	7505.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	0.4
10°-20°	123.4	1.6
20°-30°	250.7	3.3
30°-40°	612.4	8.2
40°-50°	1369.6	18.2
50°-60°	1925.8	25.7
60°-70°	2264.6	30.2
70°-80°	817.7	10.9
80°-90°	109.4	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°	7505.4	100.0
0°-180°	7505.4	100.0



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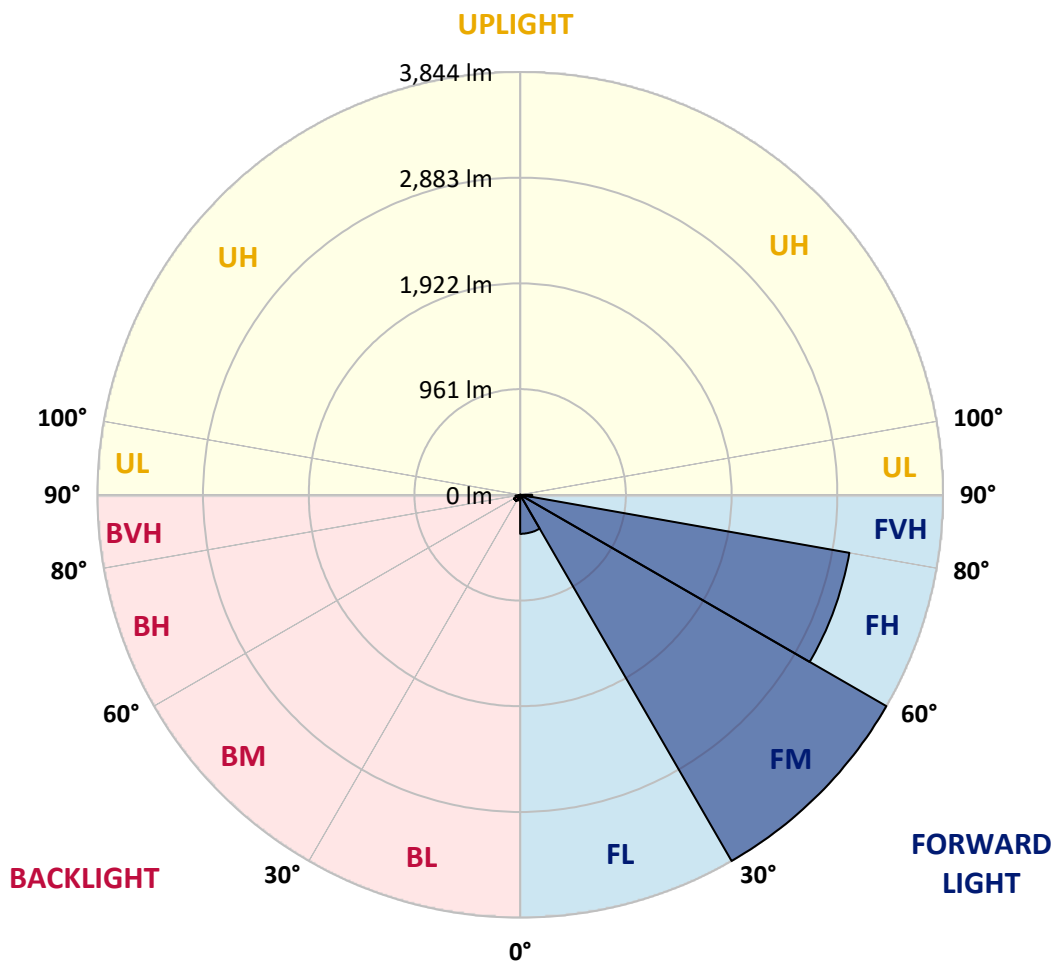
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.7	4.7			
FM	(30°-60°)	3843.6	51.2			
FH	(60°-80°)	3038.6	40.5			G2/5000
FVH	(80°-90°)	109.1	1.5			G2/225
BL	(0°-30°)	51.2	0.7	B0/110		
BM	(30°-60°)	64.2	0.9	B0/220		
BH	(60°-80°)	43.7	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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	376.6	380.6	377.9	371.1	362.9	352.0	342.5	342.5	341.1	337.0	338.4
5°	493.9	495.3	489.9	473.5	458.5	435.2	409.3	406.6	403.8	399.8	398.4
7.5°	608.5	614.0	608.5	590.8	560.7	525.3	484.4	480.3	472.1	472.1	466.6
10°	725.9	725.9	720.4	699.9	672.7	622.2	570.4	563.5	554.0	551.2	543.0
12.5°	809.1	809.1	806.3	795.5	773.6	728.6	665.8	659.0	646.8	642.6	633.1
15°	841.9	841.9	843.2	852.8	854.1	833.7	768.2	762.7	750.5	739.5	735.5
17.5°	862.3	861.0	861.0	874.6	899.2	912.8	870.5	865.1	851.4	845.9	832.3
20°	907.4	904.6	896.4	896.4	919.6	967.4	967.4	966.0	951.0	947.0	940.1
22.5°	974.2	971.5	947.0	926.4	937.3	997.4	1053.4	1050.6	1045.2	1039.7	1035.6
25°	1083.3	1073.8	1031.5	971.5	961.9	1026.0	1118.9	1125.6	1129.8	1129.8	1132.5
27.5°	1248.4	1236.2	1161.2	1049.2	1007.0	1072.5	1191.1	1204.8	1217.1	1219.8	1232.1
30°	1477.7	1455.9	1348.1	1184.4	1087.5	1140.7	1297.6	1312.6	1330.3	1335.8	1354.9
32.5°	1854.2	1842.0	1738.3	1492.7	1285.3	1274.4	1446.3	1465.4	1488.6	1498.2	1521.4
35°	2427.3	2430.1	2345.5	2124.4	1837.9	1687.8	1712.4	1728.7	1736.9	1765.5	1777.9
37.5°	2816.2	2823.0	2842.1	2754.8	2550.1	2397.4	2204.9	2222.7	2180.4	2184.5	2185.9
40°	3029.1	3050.9	3162.8	3247.3	3231.0	3142.3	2988.1	2997.7	2918.5	2900.8	2814.8
42.5°	3171.0	3199.6	3378.3	3640.3	3774.1	3854.5	3819.1	3815.0	3753.6	3730.4	3658.0
45°	3259.7	3285.6	3510.7	3896.9	4205.2	4439.9	4536.8	4547.7	4495.9	4472.6	4412.6
47.5°	3255.5	3285.6	3527.0	3992.3	4446.7	4821.9	5094.8	5108.4	5139.8	5119.4	5123.4
50°	3075.4	3104.1	3346.9	3829.9	4375.8	4996.6	5496.0	5539.6	5590.1	5624.2	5640.6
52.5°	2857.2	2877.6	3093.1	3551.6	4072.8	4924.3	5733.4	5808.4	5883.5	5947.6	5992.6
55°	2776.6	2799.9	2969.0	3349.7	3829.9	4621.4	5843.9	5954.4	6060.9	6165.9	6251.9
57.5°	2818.9	2840.8	2962.2	3254.2	3685.4	4302.1	5875.3	6047.2	6221.8	6392.4	6561.6
60°	2974.5	2997.7	3101.3	3342.9	3647.1	4117.8	5752.5	6037.7	6328.2	6625.8	6905.4
62.5°	2913.0	2922.7	3075.4	3498.4	3920.0	3960.9	5306.3	5704.7	6148.1	6606.6	7058.2
63°	2854.4	2865.3	3020.9	3456.1	4003.3	3937.8	5168.5	5588.7	6056.7	6550.6	7041.8
65°	2588.4	2589.7	2708.5	3052.2	3910.5	3978.7	4554.5	4955.7	5493.2	6085.4	6706.2
67.5°	1932.1	1922.5	2037.1	2299.1	3070.0	3980.1	3909.1	4134.2	4508.1	5033.4	5590.1
70°	685.0	670.0	855.5	1218.5	1912.9	3255.5	3359.3	3374.3	3477.9	3761.8	4111.1
72.5°	222.4	226.5	272.9	446.1	881.5	2191.3	3041.3	2994.9	2967.6	2966.3	3012.7
75°	88.7	90.1	109.1	197.8	395.7	1056.1	2663.4	2689.3	2698.8	2712.5	2727.5
77.5°	42.3	46.4	61.4	110.5	196.5	522.6	1906.2	2125.8	2251.3	2348.2	2406.9
80°	15.0	17.7	34.1	68.2	91.4	240.1	1004.3	1211.6	1395.8	1633.2	1837.9
82.5°	0.0	0.0	6.8	47.8	50.5	96.9	412.0	483.0	552.6	716.3	919.6
85°	0.0	0.0	0.0	13.7	15.0	16.4	139.2	167.8	188.3	219.7	253.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	8.2	20.4	31.4
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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	335.7	334.3	334.3	331.5	330.2	327.5	326.1	322.0	320.6	320.6	320.6
5°	397.0	391.6	388.8	382.1	377.9	376.6	369.8	367.1	362.9	364.3	357.5
7.5°	465.3	455.8	451.6	442.1	439.4	429.8	427.1	420.2	416.2	408.0	405.2
10°	540.3	528.0	521.2	506.2	502.1	495.3	487.1	478.9	472.1	463.9	459.8
12.5°	626.2	615.4	609.9	589.4	579.9	570.4	559.4	548.5	537.6	530.8	521.2
15°	727.3	709.5	704.1	685.0	668.6	656.3	641.3	627.7	619.5	605.8	596.3
17.5°	826.9	809.1	805.0	776.4	758.7	750.5	734.1	716.3	701.4	687.7	672.7
20°	926.4	914.2	903.2	876.0	856.9	843.2	821.4	803.6	791.4	772.3	753.2
22.5°	1026.0	1013.8	1005.6	976.9	959.2	940.1	921.0	901.9	884.2	861.0	839.1
25°	1128.4	1120.2	1116.1	1090.2	1073.8	1056.1	1037.0	1015.2	993.3	967.4	944.2
27.5°	1234.8	1237.5	1229.4	1223.9	1206.1	1193.9	1163.9	1148.8	1132.5	1101.1	1072.5
30°	1369.9	1378.1	1375.4	1379.4	1368.5	1360.3	1337.1	1318.1	1299.0	1268.9	1236.2
32.5°	1540.5	1551.3	1556.8	1571.8	1566.4	1563.7	1556.8	1529.6	1515.9	1464.1	1450.4
35°	1803.8	1798.3	1821.5	1833.8	1828.3	1825.6	1817.5	1802.4	1786.1	1749.2	1715.1
37.5°	2146.3	2151.8	2159.9	2135.4	2119.0	2117.6	2093.0	2078.1	2054.9	2013.9	1973.0
40°	2773.9	2739.8	2701.6	2597.9	2552.9	2526.9	2454.7	2434.2	2394.6	2338.6	2296.3
42.5°	3589.8	3555.7	3441.1	3267.8	3175.0	3046.8	2988.1	2915.8	2859.9	2768.5	2719.3
45°	4400.3	4302.1	4288.4	4086.5	3971.9	3802.7	3697.6	3576.2	3449.3	3329.2	3241.9
47.5°	5083.9	5062.1	4995.2	4872.4	4766.0	4624.1	4489.0	4302.1	4171.1	4000.5	3843.6
50°	5631.0	5629.7	5605.1	5534.1	5445.5	5330.9	5212.2	5053.9	4905.2	4696.4	4528.6
52.5°	6040.4	6062.2	6070.4	6048.5	6014.4	5913.5	5853.4	5721.1	5595.6	5418.2	5236.7
55°	6340.6	6421.1	6462.0	6508.4	6498.8	6463.4	6460.6	6374.7	6317.4	6176.8	6048.5
57.5°	6711.7	6844.0	6970.9	7196.0	7204.2	7283.4	7324.3	7365.3	7376.1	7320.2	7277.9
60°	7183.8	7454.0	7694.1	8164.8	8287.6	8481.3	8606.9	8743.3	8859.3	8868.8	8866.1
62.5°	7516.7	7932.8	8320.3	9019.0	9257.7	9481.5	9649.3	9781.7	9862.1	9944.0	9982.2
63°	7526.2	7982.0	8394.0	9114.4	9365.5	9578.4	9738.0	9860.8	9945.4	9994.5	10019.1
65°	7295.6	7848.3	8339.5	9057.1	9293.2	9507.4	9590.6	9671.1	9712.1	9731.1	9658.9
67.5°	6183.7	6724.0	7297.0	8099.3	8301.2	8557.7	8626.0	8666.9	8686.0	8681.9	8620.5
70°	4624.1	5077.1	5714.2	6631.2	6898.6	7149.6	7305.2	7372.1	7393.9	7387.0	7295.6
72.5°	3228.3	3494.3	4019.7	5040.2	5404.6	5726.6	5918.9	6018.5	6039.0	5998.1	5913.5
75°	2711.2	2724.8	2843.5	3401.5	3742.7	4086.5	4303.4	4366.2	4325.3	4201.1	3985.5
77.5°	2420.5	2450.5	2450.5	2533.7	2600.6	2696.1	2716.6	2563.8	2386.4	2157.2	1971.6
80°	2030.3	2135.4	2209.1	2270.4	2277.3	2258.2	2207.6	2121.7	1985.2	1810.6	1616.8
82.5°	1233.5	1440.9	1525.4	1842.0	1997.6	2102.6	2094.4	1979.8	1876.1	1694.6	1529.6
85°	311.1	335.7	364.3	473.5	530.8	648.1	721.8	755.9	768.2	705.4	638.6
87.5°	30.0	20.4	34.1	25.9	36.8	27.3	36.8	34.1	42.3	45.0	49.1
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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	317.9	316.6	315.1	313.8	312.4	311.1	308.4	308.4	305.6	304.3	302.9
5°	353.4	350.7	349.3	346.5	342.5	339.7	335.7	330.2	326.1	324.8	322.0
7.5°	398.4	391.6	388.8	384.8	379.3	371.1	365.7	361.6	354.7	350.7	342.5
10°	448.9	442.1	433.9	425.7	417.5	408.0	401.1	395.7	384.8	379.3	369.8
12.5°	513.1	500.7	491.2	480.3	469.3	458.5	450.3	433.9	424.4	412.0	403.8
15°	578.6	567.6	556.7	543.0	526.7	508.9	500.7	485.7	473.5	454.3	443.4
17.5°	657.6	637.2	620.8	604.5	589.4	573.1	556.7	533.5	515.8	499.4	477.5
20°	735.5	710.9	693.2	671.3	649.5	623.5	604.5	588.1	563.5	541.7	518.5
22.5°	818.7	794.1	765.4	743.6	713.6	693.2	667.2	639.9	615.4	586.7	558.0
25°	919.6	893.7	861.0	832.3	798.2	769.6	738.2	706.8	676.8	644.0	607.2
27.5°	1043.8	1016.5	981.1	947.0	901.9	866.4	836.4	794.1	755.9	714.9	672.7
30°	1200.7	1170.7	1127.1	1077.9	1032.9	993.3	951.0	895.1	852.8	803.6	749.0
32.5°	1405.3	1369.9	1311.2	1264.8	1208.9	1157.0	1098.4	1042.4	982.4	918.3	855.5
35°	1663.3	1630.5	1562.3	1494.0	1432.7	1371.2	1297.6	1233.5	1148.8	1071.1	990.6
37.5°	1930.7	1872.0	1809.3	1735.6	1659.1	1585.4	1495.4	1406.8	1309.9	1225.3	1124.3
40°	2236.3	2165.3	2113.5	2034.4	1926.6	1821.5	1738.3	1627.8	1506.4	1393.1	1274.4
42.5°	2655.2	2576.0	2483.3	2363.2	2285.4	2162.6	2054.9	1923.9	1764.2	1637.3	1494.0
45°	3139.6	3031.8	2941.7	2825.8	2731.6	2578.8	2453.2	2278.6	2119.0	1952.5	1777.9
47.5°	3692.2	3558.4	3427.4	3312.8	3162.8	3012.7	2853.0	2667.5	2462.8	2280.0	2072.6
50°	4326.6	4137.0	3955.5	3808.2	3602.2	3428.8	3255.5	3046.8	2820.3	2610.2	2374.1
52.5°	5032.0	4812.4	4572.2	4345.7	4106.9	3884.6	3675.8	3435.6	3183.2	2926.7	2663.4
55°	5883.5	5718.4	5435.9	5148.0	4828.7	4531.3	4262.5	3965.1	3658.0	3321.0	3044.0
57.5°	7216.5	7136.0	6900.0	6612.1	6195.9	5834.3	5378.6	5014.3	4569.5	4105.6	3748.1
60°	9023.0	8923.4	8791.1	8557.7	8227.6	7736.4	7234.3	6668.0	5991.2	5348.6	4738.7
62.5°	9986.4	9950.8	9843.0	9682.0	9373.7	8986.2	8480.0	7857.8	7093.7	6313.2	5535.5
63°	10015.0	9970.0	9877.1	9713.4	9441.9	9066.7	8570.1	7965.6	7217.9	6422.4	5628.3
65°	9627.5	9609.8	9515.6	9336.8	9151.3	8864.8	8480.0	7960.1	7332.5	6580.7	5790.7
67.5°	8538.7	8485.4	8340.8	8286.2	8156.6	7957.4	7664.0	7306.6	6857.7	6266.9	5584.6
70°	7221.9	7142.9	6961.3	6864.5	6706.2	6580.7	6401.9	6146.8	5869.8	5457.8	4948.8
72.5°	5826.2	5662.4	5496.0	5243.5	5022.5	4798.8	4600.8	4420.7	4116.5	3950.0	3563.9
75°	3783.6	3486.1	3201.0	2818.9	2475.1	2170.8	1874.8	1724.6	1412.2	1285.3	1103.9
77.5°	1795.6	1629.2	1405.3	1232.1	1011.0	825.5	674.0	506.2	397.0	311.1	237.4
80°	1449.0	1308.5	1173.4	1016.5	850.1	678.1	519.8	388.8	275.6	191.0	135.0
82.5°	1292.2	1139.3	972.9	865.1	751.8	615.4	504.9	412.0	304.3	222.4	151.4
85°	502.1	423.0	326.1	266.0	207.4	170.6	154.2	106.4	83.2	65.5	50.5
87.5°	43.6	35.4	28.6	19.1	20.4	10.9	12.2	8.2	6.8	6.8	5.5
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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	301.6	300.2	298.8	296.1	296.1	293.4	292.0	290.6	283.8	268.8	256.5
5°	316.6	313.8	311.1	307.0	304.3	300.2	297.4	293.4	278.3	249.7	225.1
7.5°	338.4	333.0	328.8	320.6	316.6	311.1	307.0	300.2	275.6	231.9	197.8
10°	364.3	354.7	347.9	338.4	330.2	323.3	316.6	307.0	272.9	212.9	173.3
12.5°	395.7	384.8	371.1	360.2	349.3	339.7	330.2	317.9	268.8	196.5	154.2
15°	427.1	410.7	401.1	386.1	371.1	357.5	343.8	333.0	270.2	178.8	137.8
17.5°	462.5	446.1	425.7	409.3	393.0	375.2	358.9	337.0	263.3	165.1	125.5
20°	496.7	473.5	454.3	433.9	410.7	388.8	368.4	349.3	257.8	151.4	114.6
22.5°	533.5	506.2	481.7	455.8	427.1	402.5	377.9	353.4	248.3	139.2	105.1
25°	578.6	547.2	511.6	480.3	450.3	420.2	388.8	358.9	238.8	128.3	98.2
27.5°	633.1	592.1	556.7	517.1	474.8	436.6	402.5	369.8	229.2	120.1	91.4
30°	702.7	654.9	604.5	554.0	508.9	465.3	417.5	376.6	219.7	111.9	84.6
32.5°	795.5	735.5	674.0	615.4	555.3	499.4	448.9	395.7	214.2	105.1	77.7
35°	918.3	840.5	765.4	691.7	619.5	551.2	485.7	425.7	214.2	96.9	69.5
37.5°	1034.2	944.2	848.7	757.2	671.3	592.1	514.4	442.1	203.3	90.1	62.8
40°	1159.8	1052.0	940.1	832.3	728.6	630.4	541.7	458.5	193.8	81.9	56.0
42.5°	1352.2	1215.7	1069.8	944.2	820.0	698.6	588.1	489.9	181.5	73.7	49.1
45°	1604.6	1431.3	1259.4	1106.6	948.3	799.6	668.6	547.2	178.8	66.8	42.3
47.5°	1874.8	1670.1	1468.1	1273.0	1087.5	914.2	757.2	611.3	178.8	60.0	36.8
50°	2143.6	1887.0	1671.4	1444.9	1236.2	1031.5	844.6	678.1	180.1	54.6	30.0
52.5°	2386.4	2112.2	1870.6	1608.6	1378.1	1140.7	937.3	743.6	177.4	47.8	24.6
55°	2723.4	2401.4	2121.7	1832.5	1562.3	1294.9	1064.3	841.9	178.8	42.3	20.4
57.5°	3344.2	2966.3	2629.3	2250.0	1938.9	1593.6	1313.9	1043.8	195.1	35.4	15.0
60°	4235.2	3744.0	3270.5	2808.0	2412.3	2001.6	1638.7	1320.8	229.2	28.6	10.9
62.5°	4834.2	4191.5	3626.7	3116.4	2656.5	2226.8	1831.0	1469.5	252.4	23.2	6.8
63°	4895.6	4231.1	3663.5	3136.9	2667.5	2237.7	1839.2	1480.4	253.8	21.9	6.8
65°	5011.6	4299.4	3684.0	3140.9	2656.5	2222.7	1833.8	1479.0	256.5	17.7	5.5
67.5°	4879.2	4194.3	3565.3	3023.6	2561.1	2133.9	1765.5	1424.5	255.1	12.2	4.1
70°	4363.4	3795.8	3243.3	2738.4	2318.2	1932.1	1607.3	1299.0	234.7	8.2	2.7
72.5°	3203.7	2817.6	2389.2	2024.8	1746.5	1450.4	1237.5	975.6	181.5	5.5	1.4
75°	949.7	865.1	727.3	641.3	566.2	468.0	416.2	324.8	92.8	2.7	0.0
77.5°	189.6	171.9	154.2	140.5	132.3	113.3	107.8	88.7	38.2	1.4	0.0
80°	99.6	81.9	69.5	61.4	53.2	43.6	36.8	30.0	6.8	0.0	0.0
82.5°	95.5	64.1	46.4	38.2	32.7	25.9	20.4	15.0	4.1	0.0	0.0
85°	35.4	27.3	20.4	16.4	13.7	12.2	9.5	8.2	0.0	0.0	0.0
87.5°	5.5	4.1	4.1	2.7	2.7	1.4	1.4	1.4	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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	244.3	233.3	227.9	221.0	221.0	219.7	222.4
5°	203.3	188.3	177.4	169.2	170.6	166.4	167.8
7.5°	171.9	156.9	147.4	141.9	140.5	139.2	139.2
10°	148.7	135.0	126.9	122.8	121.5	121.5	121.5
12.5°	132.3	118.7	111.9	109.1	109.1	107.8	107.8
15°	118.7	107.8	100.9	98.2	98.2	96.9	98.2
17.5°	107.8	96.9	91.4	88.7	88.7	87.4	87.4
20°	98.2	88.7	83.2	79.2	79.2	77.7	79.2
22.5°	90.1	80.5	73.7	71.0	69.5	68.2	69.5
25°	81.9	72.3	65.5	61.4	60.0	60.0	58.7
27.5°	75.0	65.5	57.3	53.2	51.8	51.8	50.5
30°	68.2	57.3	49.1	45.0	43.6	43.6	43.6
32.5°	61.4	49.1	42.3	38.2	36.8	36.8	36.8
35°	54.6	42.3	35.4	31.4	30.0	30.0	30.0
37.5°	46.4	35.4	27.3	24.6	23.2	21.9	21.9
40°	39.6	27.3	20.4	17.7	15.0	15.0	15.0
42.5°	32.7	21.9	15.0	10.9	9.5	8.2	9.5
45°	27.3	16.4	9.5	5.5	4.1	4.1	4.1
47.5°	21.9	10.9	4.1	1.4	1.4	1.4	1.4
50°	16.4	6.8	1.4	0.0	0.0	1.4	1.4
52.5°	12.2	4.1	0.0	0.0	0.0	0.0	0.0
55°	6.8	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.1	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°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)