

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: P144823

Luminaire Tested: **LDRL-SL2-F01-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144823
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-F01-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2040 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

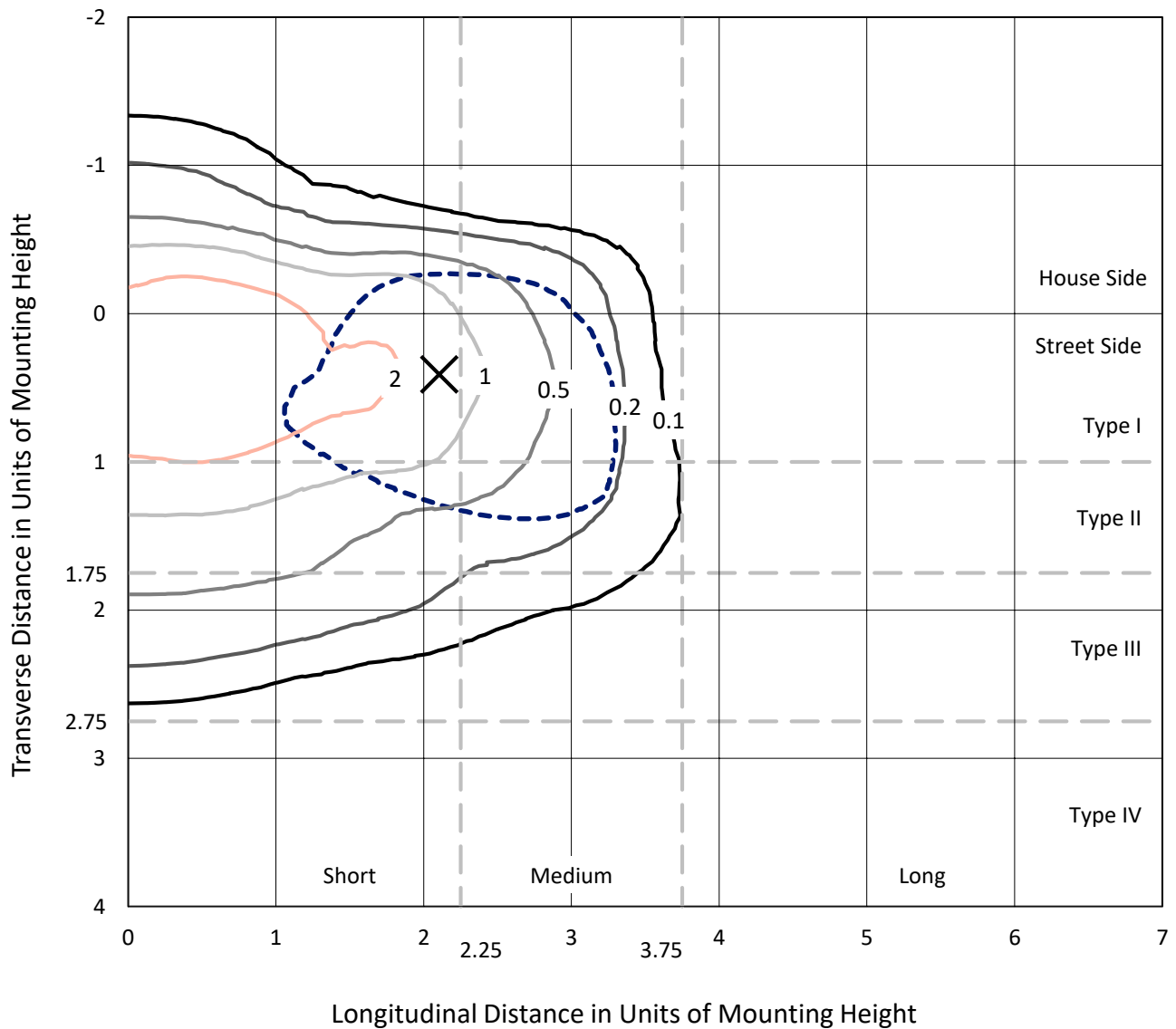
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

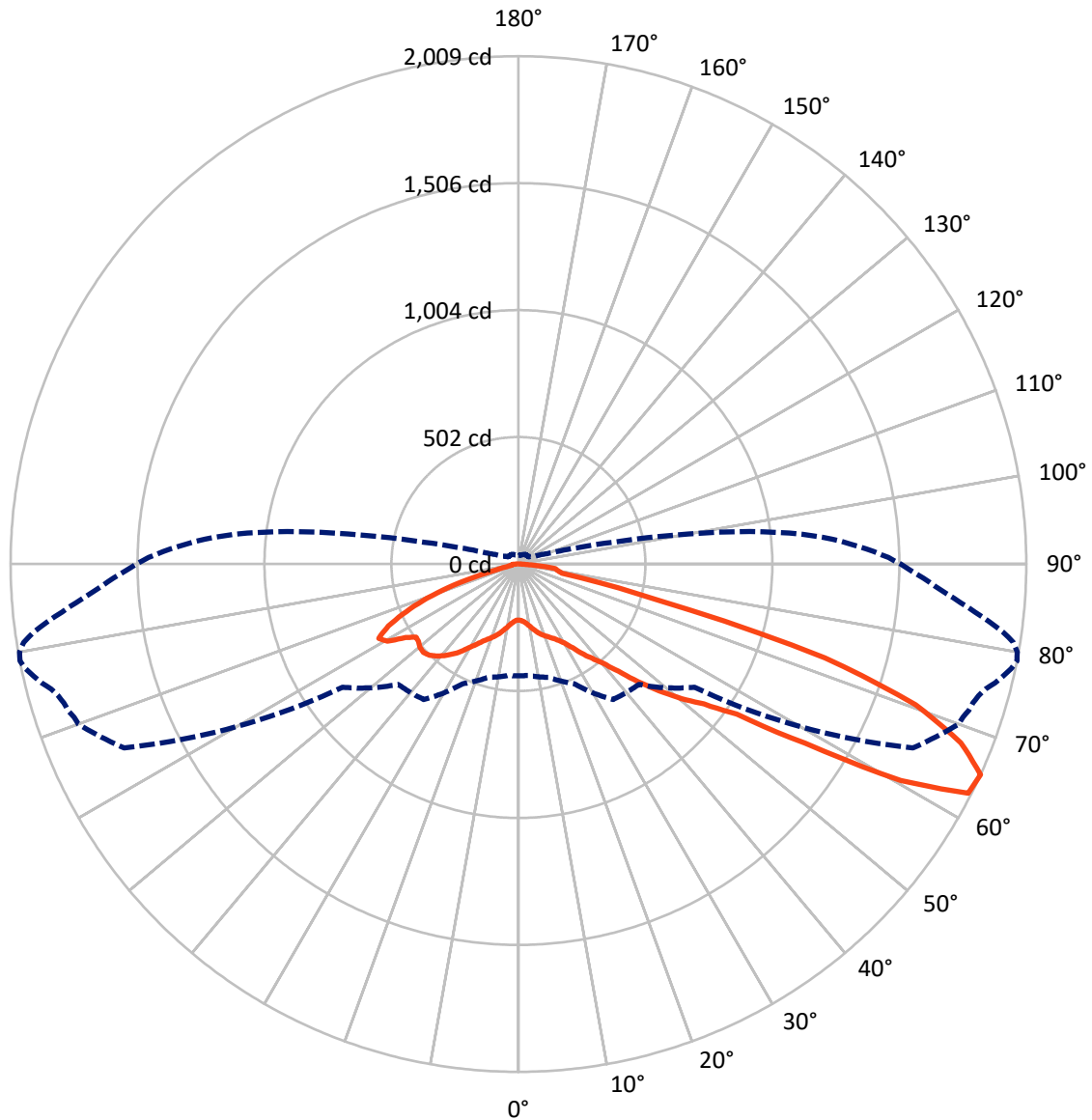
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	463.1	0.0	463.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	1577.0	0.0	1577.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	2040.0	0.0	2040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	1.1
10°-20°	71.6	3.5
20°-30°	123.5	6.1
30°-40°	201.4	9.9
40°-50°	336.2	16.5
50°-60°	454.6	22.3
60°-70°	564.8	27.7
70°-80°	226.1	11.1
80°-90°	39.7	1.9
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°	2040.0	100.0
0°-180°	2040.0	100.0



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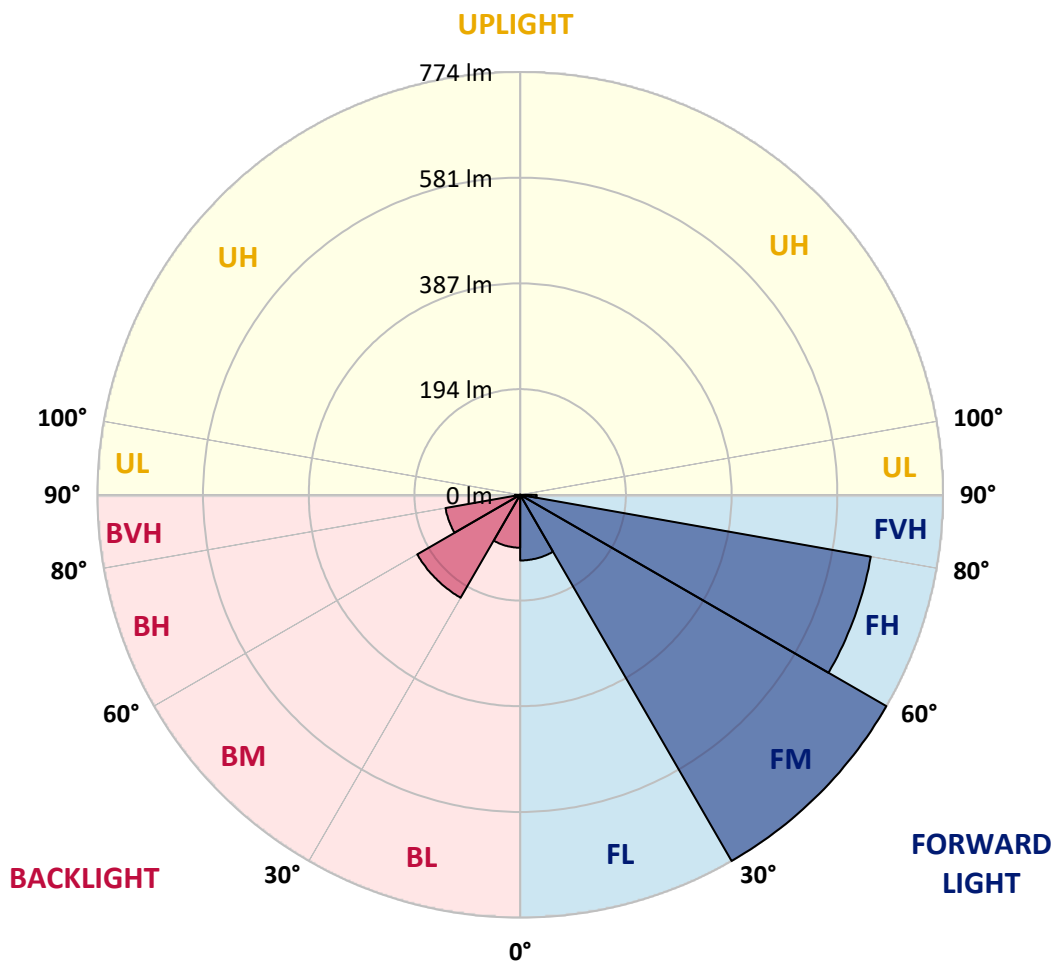
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.3	5.9			
FM (30°-60°)	774.4	38.0			
FH (60°-80°)	652.1	32.0			G0/660
FVH (80°-90°)	30.1	1.5			G1/100
BL (0°-30°)	96.8	4.7	B0/110		
BM (30°-60°)	217.8	10.7	B0/220		
BH (60°-80°)	138.8	6.8	B1/500		G1/500
BVH (80°-90°)	9.6	0.5			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	223.4	223.2	223.9	224.5	224.5	224.8	224.6	223.8	223.9	224.2	223.9
5°	225.9	225.3	226.0	226.9	227.4	228.1	228.8	228.9	229.5	229.5	229.4
7.5°	231.3	230.9	231.9	232.2	233.4	234.5	235.9	236.9	237.4	237.7	238.1
10°	240.7	240.4	240.7	241.2	241.8	243.0	245.4	247.5	248.7	248.7	249.3
12.5°	251.9	250.8	251.1	250.0	250.3	252.9	255.7	259.2	261.3	261.6	261.8
15°	260.7	260.2	259.7	258.2	259.3	262.8	267.1	272.1	274.0	275.5	275.3
17.5°	268.9	268.2	267.3	265.2	266.3	271.9	278.4	284.0	287.1	287.3	287.6
20°	278.7	277.9	276.0	271.7	271.4	279.3	288.0	294.0	296.8	298.1	298.5
22.5°	291.1	290.0	286.6	278.3	276.0	285.2	295.7	303.1	306.0	307.3	308.0
25°	307.0	304.8	299.5	286.4	281.8	291.4	303.9	312.8	316.9	318.1	319.0
27.5°	321.3	319.7	313.3	297.8	289.8	299.6	313.9	325.4	330.9	332.5	333.7
30°	338.1	335.7	330.5	314.1	303.5	312.1	330.4	344.9	351.7	351.9	354.6
32.5°	377.4	375.8	371.1	353.0	335.1	335.7	352.7	372.6	379.4	380.6	383.1
35°	435.6	435.0	434.9	424.9	411.6	398.0	399.2	414.4	419.0	420.8	421.7
37.5°	473.9	478.8	490.6	497.9	494.5	497.5	482.1	463.6	461.0	459.0	459.8
40°	506.9	511.3	535.2	568.7	589.0	603.4	589.9	533.0	511.8	505.7	503.3
42.5°	526.5	531.3	565.6	619.1	671.0	705.0	708.6	629.6	575.8	575.1	566.2
45°	537.0	541.9	582.9	654.9	728.2	789.5	821.3	748.4	669.4	663.6	651.2
47.5°	535.0	539.6	582.2	668.2	762.1	845.7	909.2	868.6	777.4	763.3	746.2
50°	509.5	512.8	557.5	646.6	753.0	869.1	969.4	978.8	899.6	880.5	854.9
52.5°	483.1	489.1	526.2	608.3	711.9	854.6	1005.4	1079.1	1013.8	1000.7	967.8
55°	468.9	473.6	503.9	574.0	668.6	805.1	1020.3	1173.7	1152.4	1147.1	1123.8
57.5°	468.3	472.9	497.1	553.2	633.3	753.6	1024.6	1319.9	1382.5	1383.9	1377.2
60°	491.2	495.9	516.1	563.2	622.5	709.4	1009.2	1527.2	1665.5	1677.7	1698.2
62.5°	494.4	496.6	521.0	584.6	662.0	676.4	945.5	1699.9	1860.0	1871.3	1882.6
65°	442.3	442.1	463.7	522.3	653.8	673.0	849.7	1721.1	1852.2	1859.0	1873.1
67.5°	329.8	327.0	339.3	392.8	518.8	673.9	736.3	1561.2	1707.8	1720.8	1725.5
70°	170.0	174.3	182.7	215.4	329.4	542.5	632.5	1317.2	1499.2	1504.1	1521.0
72.5°	69.8	68.0	73.7	90.6	164.8	358.5	523.2	1039.5	1238.2	1234.9	1238.0
75°	38.9	39.4	41.1	47.2	80.1	180.0	449.5	735.9	842.1	784.4	767.0
77.5°	31.2	31.5	31.6	32.7	43.8	96.0	345.0	484.6	423.5	393.2	381.7
80°	22.9	24.4	26.1	26.3	30.1	54.5	189.2	408.0	357.4	332.3	311.7
82.5°	18.4	19.1	22.7	23.3	24.0	32.5	85.7	383.2	356.0	330.4	302.0
85°	11.0	12.3	18.5	18.7	19.0	19.8	47.4	156.1	194.1	171.5	157.0
87.5°	3.9	5.0	9.2	7.7	9.8	8.1	20.8	52.3	64.4	61.2	54.2
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	223.8	223.8	224.1	223.9	223.9	223.9	223.9	223.7	223.7	223.2	223.5
5°	229.4	229.2	229.4	229.5	229.4	229.6	229.5	229.4	229.5	229.4	229.5
7.5°	238.3	237.6	238.6	238.0	237.9	238.7	238.3	238.7	238.8	238.7	238.6
10°	249.6	250.0	250.0	250.0	249.7	250.5	250.7	251.0	251.1	251.7	251.7
12.5°	262.5	262.7	263.2	263.1	263.4	264.3	265.0	265.2	265.3	265.7	265.2
15°	276.5	276.7	276.7	278.0	277.6	279.0	279.4	279.4	279.5	281.2	281.3
17.5°	288.9	288.9	290.0	290.0	291.1	291.4	292.6	292.8	293.3	294.9	295.0
20°	299.3	299.9	300.6	301.4	301.8	302.7	303.5	304.3	305.0	306.3	306.4
22.5°	309.2	309.8	310.9	311.4	312.4	313.0	313.7	314.6	315.8	317.4	317.9
25°	320.6	321.2	322.4	323.3	324.4	325.2	326.5	327.7	328.4	330.1	331.4
27.5°	335.1	336.8	338.5	338.9	339.7	341.7	343.4	345.0	346.6	347.4	348.9
30°	356.3	356.3	359.8	359.8	361.3	363.1	364.3	366.1	368.9	369.7	371.6
32.5°	384.7	385.4	386.7	390.5	393.2	394.1	394.9	397.6	399.2	401.3	403.7
35°	425.3	426.0	426.7	430.3	433.5	434.3	435.2	436.9	439.6	443.3	442.1
37.5°	461.7	462.1	464.3	468.3	470.2	472.4	473.1	476.1	477.7	481.0	481.2
40°	505.4	504.4	505.7	510.3	513.1	512.9	515.2	520.7	521.9	523.4	527.3
42.5°	566.4	562.8	566.7	568.3	572.4	575.1	579.5	583.3	586.0	591.8	594.6
45°	645.3	641.6	644.8	645.5	654.1	656.7	663.4	668.4	674.2	680.8	682.8
47.5°	735.2	728.2	724.3	728.6	739.0	743.3	749.8	754.6	760.6	764.0	762.9
50°	839.3	822.6	814.8	812.5	819.9	826.0	836.2	838.5	841.2	841.1	841.2
52.5°	955.4	937.9	921.6	910.4	909.2	917.5	920.0	920.5	919.7	913.4	909.5
55°	1107.0	1105.7	1088.6	1065.2	1063.6	1062.7	1048.0	1046.2	1042.9	1033.3	1020.0
57.5°	1382.0	1396.0	1384.7	1384.1	1371.9	1363.8	1336.9	1323.5	1309.4	1283.4	1262.6
60°	1700.0	1720.2	1731.4	1736.3	1760.2	1760.2	1738.2	1719.3	1696.4	1656.7	1618.0
62.5°	1891.5	1909.2	1925.6	1951.4	1981.9	1995.5	1996.6	1979.7	1950.9	1905.6	1850.8
65°	1879.4	1892.5	1912.4	1942.8	1968.0	1992.2	2008.5	2003.4	1981.4	1936.1	1876.4
67.5°	1742.1	1761.2	1787.0	1815.0	1838.4	1861.3	1887.6	1889.5	1883.7	1840.6	1786.7
70°	1530.3	1554.8	1571.1	1606.4	1617.0	1640.1	1666.6	1679.3	1669.8	1636.6	1605.0
72.5°	1243.3	1262.6	1265.4	1250.1	1255.4	1261.1	1267.5	1237.8	1226.4	1182.1	1161.7
75°	753.9	728.4	706.9	685.6	621.9	599.3	564.6	496.2	488.4	441.5	408.8
77.5°	358.5	347.8	328.4	296.0	252.8	211.4	175.4	142.6	130.3	107.3	91.4
80°	300.2	287.3	269.9	245.8	215.6	185.5	157.0	132.7	108.1	88.1	70.4
82.5°	275.3	253.1	228.5	207.8	186.4	166.0	146.9	124.9	111.9	90.3	73.7
85°	139.2	121.9	98.8	83.2	70.2	57.1	49.5	42.2	37.6	30.0	26.1
87.5°	46.7	38.2	28.4	24.1	21.7	18.7	17.1	16.3	15.9	14.1	12.5
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	223.5	223.5	223.5	223.5	223.4	223.4	223.4	223.4	223.4	223.4	223.5
5°	229.2	229.2	229.4	229.8	228.9	229.2	229.5	229.1	229.5	229.1	229.6
7.5°	238.4	238.8	238.6	239.1	238.8	239.7	239.1	238.7	239.0	239.0	239.1
10°	251.4	251.9	251.5	251.8	251.8	252.4	251.7	251.8	251.9	251.7	251.8
12.5°	265.7	266.0	265.9	266.7	266.3	266.7	266.3	266.8	267.1	267.4	267.4
15°	281.3	281.6	282.5	282.3	283.2	282.9	283.0	282.3	283.7	282.9	283.2
17.5°	295.7	295.6	296.7	297.1	297.2	297.4	297.8	297.2	297.4	297.8	297.5
20°	306.8	307.8	308.1	309.2	310.0	310.3	310.2	310.6	311.2	310.6	310.6
22.5°	318.7	320.1	320.5	321.2	322.0	322.2	323.0	323.4	323.7	323.6	323.7
25°	332.9	333.9	334.9	336.2	337.2	337.4	338.1	338.6	338.8	338.6	339.4
27.5°	350.3	351.6	352.8	354.5	355.6	355.9	357.4	357.4	358.3	358.7	359.0
30°	372.8	373.2	376.4	378.0	377.6	379.6	381.7	381.5	382.5	382.8	383.5
32.5°	405.4	405.4	408.1	410.2	412.5	411.8	415.0	414.4	416.0	416.8	416.4
35°	444.9	446.3	448.4	449.7	452.0	453.3	455.5	456.8	457.5	457.3	455.8
37.5°	485.8	488.0	488.8	491.9	494.3	496.4	496.6	495.2	495.8	493.0	492.2
40°	532.4	535.7	537.6	542.2	541.9	544.6	544.8	540.8	540.1	536.5	532.7
42.5°	597.7	602.1	603.7	607.1	604.3	605.6	598.6	597.0	591.4	585.5	577.0
45°	685.6	683.4	684.3	683.4	676.0	670.5	664.8	656.6	648.4	637.1	625.0
47.5°	762.9	764.0	756.8	752.2	740.2	732.5	722.1	707.7	697.7	682.5	666.5
50°	838.0	825.6	815.5	804.9	794.3	780.2	764.5	751.8	737.1	718.2	698.5
52.5°	899.1	883.0	870.8	855.7	841.4	825.8	809.3	790.9	771.7	752.8	728.5
55°	1007.2	983.9	968.2	941.8	925.5	903.7	890.8	867.0	840.3	815.2	789.4
57.5°	1239.2	1204.4	1186.4	1171.5	1146.1	1110.2	1087.3	1048.2	1010.0	983.2	940.3
60°	1588.7	1553.3	1523.5	1488.2	1449.3	1400.6	1378.8	1332.7	1278.1	1233.9	1177.2
62.5°	1806.5	1757.6	1709.2	1659.8	1620.7	1582.6	1537.6	1491.0	1436.9	1376.9	1314.9
65°	1815.3	1756.6	1698.8	1648.3	1602.6	1553.0	1510.8	1463.6	1406.7	1344.8	1280.5
67.5°	1724.1	1658.5	1596.5	1541.2	1488.9	1442.9	1398.8	1354.3	1293.4	1241.6	1175.7
70°	1542.6	1482.7	1426.5	1363.5	1323.5	1271.8	1228.8	1181.9	1138.3	1089.8	1028.1
72.5°	1133.0	1087.9	1023.8	997.0	975.6	920.8	888.8	884.9	857.0	798.9	752.8
75°	421.4	358.7	339.7	351.0	332.2	338.5	336.1	322.7	323.3	313.4	301.7
77.5°	82.5	76.6	72.0	73.3	68.1	65.9	70.6	69.3	66.7	67.4	66.3
80°	56.2	47.5	43.1	41.4	39.3	38.3	38.0	37.6	36.8	36.4	35.1
82.5°	55.3	41.1	32.5	27.9	26.2	25.4	24.7	24.5	24.2	24.1	24.5
85°	22.0	17.8	16.3	14.9	14.5	14.1	14.1	13.9	13.8	14.1	14.6
87.5°	10.7	9.1	8.2	7.5	7.2	7.1	7.1	7.2	7.4	7.9	9.1
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	223.2	223.4	223.1	223.2	223.1	222.8	222.7	223.1	223.0	222.8	222.8
5°	228.9	229.5	229.2	228.9	228.9	228.8	228.8	228.8	228.7	228.8	228.4
7.5°	238.8	238.7	238.7	238.4	238.1	238.4	238.3	237.9	238.0	237.7	237.3
10°	251.5	251.1	251.8	251.8	251.2	251.1	250.8	250.4	250.4	250.0	250.0
12.5°	266.6	266.2	267.1	266.4	265.6	265.5	264.6	264.3	264.8	264.6	264.3
15°	281.9	282.0	282.5	282.3	281.3	281.3	280.2	280.4	279.5	279.3	278.6
17.5°	296.8	296.9	296.5	296.5	295.8	295.4	294.2	294.3	293.7	292.6	291.8
20°	310.2	310.0	309.1	309.9	308.5	308.2	307.1	306.0	306.3	305.2	303.5
22.5°	323.3	323.0	322.7	322.3	321.6	321.3	320.1	319.9	318.5	316.9	315.5
25°	338.5	338.3	337.9	338.1	336.7	336.8	334.6	334.0	333.2	331.4	330.3
27.5°	358.1	358.1	357.0	356.6	356.2	355.6	353.7	352.3	350.2	348.1	345.9
30°	382.2	382.0	381.7	380.6	379.0	378.2	374.7	372.5	369.7	365.8	362.4
32.5°	416.6	414.3	412.3	409.8	407.3	404.7	399.2	395.5	391.0	384.7	379.4
35°	455.0	450.9	448.8	443.7	438.9	433.6	427.1	419.4	413.3	405.1	396.4
37.5°	486.6	483.5	478.0	472.1	465.4	455.4	448.0	439.8	429.0	420.0	409.5
40°	525.6	518.6	510.7	501.0	491.8	480.5	470.3	458.5	445.4	432.3	418.6
42.5°	566.6	555.9	542.8	531.5	517.5	502.8	489.5	473.5	456.8	439.2	421.0
45°	608.4	595.2	577.7	561.7	542.3	523.8	504.9	483.0	460.1	436.7	413.7
47.5°	646.7	627.3	607.6	586.0	563.7	539.8	512.9	484.2	454.1	423.3	394.6
50°	676.8	652.6	627.6	602.7	575.4	544.4	510.6	473.1	436.0	399.1	366.1
52.5°	703.4	676.3	645.6	614.7	580.9	542.9	500.5	456.4	411.2	370.4	333.3
55°	755.0	720.8	680.4	640.6	597.9	550.0	497.2	443.1	391.1	346.7	307.3
57.5°	895.0	848.9	786.3	731.0	676.9	607.1	532.7	466.1	399.9	347.4	303.5
60°	1115.6	1040.5	968.9	884.6	797.1	701.3	601.6	511.8	431.1	365.2	312.4
62.5°	1243.5	1164.2	1072.1	970.0	856.6	739.9	625.4	520.6	432.1	360.4	301.8
65°	1209.0	1129.3	1028.0	923.5	802.8	683.5	569.8	469.2	383.3	317.0	261.0
67.5°	1106.4	1023.1	927.9	812.0	696.6	586.1	482.4	387.7	311.7	249.8	200.4
70°	957.2	883.0	791.4	684.5	572.6	473.2	385.9	300.4	236.2	179.5	140.5
72.5°	710.4	644.8	587.5	498.2	416.2	338.3	267.1	209.0	153.7	116.2	89.5
75°	298.2	276.0	266.7	234.0	203.4	166.8	125.6	100.1	81.1	69.0	54.8
77.5°	72.3	72.3	68.0	63.7	58.5	53.0	46.8	41.8	39.3	37.1	35.3
80°	35.1	34.8	33.7	33.6	32.6	31.4	30.7	29.7	29.3	28.7	28.4
82.5°	24.7	24.5	24.1	24.7	24.5	25.1	25.4	25.5	25.5	25.6	25.8
85°	15.6	16.2	17.3	18.7	19.9	21.5	22.9	24.0	24.8	25.5	26.1
87.5°	9.9	11.3	12.1	14.2	16.3	18.7	21.3	22.4	23.4	23.5	22.7
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7
2.5°	222.8	222.7	223.0	222.7	222.7	222.5	222.1	221.7	221.3	221.1	220.7
5°	228.3	228.3	228.5	228.0	228.1	227.6	226.3	224.9	223.7	222.5	221.3
7.5°	237.4	237.0	237.2	237.0	236.8	235.6	232.8	229.4	226.0	222.5	219.8
10°	249.7	248.9	248.9	248.6	248.2	246.6	240.8	233.8	226.9	220.6	216.0
12.5°	263.4	263.5	262.4	261.7	261.0	257.8	249.0	237.9	226.9	216.8	209.4
15°	277.6	277.4	276.2	275.8	274.2	269.5	256.3	240.0	224.2	209.4	198.4
17.5°	290.4	289.8	288.6	287.8	286.1	279.8	261.1	239.0	217.2	197.9	184.1
20°	302.1	301.4	300.3	298.8	297.1	288.0	262.9	234.0	206.2	184.1	170.1
22.5°	314.2	312.7	311.4	309.4	307.5	295.4	261.7	225.0	193.7	168.7	153.8
25°	327.7	325.9	323.3	320.8	318.0	301.4	258.2	213.9	178.6	152.2	137.1
27.5°	342.4	339.7	336.2	333.0	328.6	305.9	252.2	201.5	162.2	135.7	120.1
30°	357.8	353.0	348.6	343.8	338.1	308.0	243.6	186.2	144.1	119.0	103.4
32.5°	372.9	366.3	359.9	352.8	345.0	307.1	231.3	168.1	126.0	103.4	90.3
35°	388.2	378.7	369.8	360.2	350.7	302.9	214.5	148.0	108.8	90.4	81.0
37.5°	398.7	386.8	375.0	363.4	352.0	293.9	192.0	125.6	93.4	81.1	74.3
40°	404.0	389.5	375.0	360.6	346.6	278.8	165.8	105.1	82.4	74.1	69.3
42.5°	402.4	384.5	366.5	349.5	332.2	254.9	137.4	88.2	74.7	68.7	64.4
45°	389.8	368.3	347.8	329.8	308.2	224.1	112.9	77.8	68.8	64.2	60.2
47.5°	365.9	342.0	316.9	296.5	276.3	188.4	93.9	71.2	63.7	59.9	55.9
50°	335.5	307.8	282.7	260.7	240.9	155.1	81.0	65.6	59.5	56.3	52.0
52.5°	302.1	272.3	249.4	226.3	206.9	129.5	71.9	59.5	55.5	52.1	48.6
55°	274.4	246.8	223.5	200.2	180.7	113.3	64.4	54.8	51.7	48.2	45.4
57.5°	267.0	235.5	210.1	188.1	168.1	103.4	58.9	50.4	48.4	45.7	42.6
60°	270.1	235.4	206.9	182.8	161.8	95.5	54.9	47.5	45.8	43.5	40.3
62.5°	259.0	222.4	193.7	168.1	148.1	85.4	52.0	46.1	45.0	41.8	38.2
65°	220.7	187.1	159.6	137.4	120.3	71.9	49.6	47.4	46.3	40.7	36.8
67.5°	168.1	140.0	117.9	101.3	88.9	59.5	49.1	51.6	49.3	41.2	36.4
70°	116.2	95.0	80.8	70.8	63.0	50.2	50.9	56.2	53.0	43.1	38.7
72.5°	73.7	61.6	54.6	50.9	47.1	42.4	50.4	55.6	51.3	43.3	38.7
75°	47.2	42.2	39.9	38.5	37.3	36.9	44.5	45.7	41.2	37.6	36.1
77.5°	33.4	32.6	32.2	32.0	32.2	33.2	36.8	34.4	30.0	30.1	30.9
80°	28.3	28.3	28.0	28.1	28.4	28.8	29.4	25.4	23.0	24.8	27.6
82.5°	25.9	26.3	26.6	26.9	27.3	26.8	24.9	19.2	18.5	24.1	27.0
85°	26.3	26.3	26.5	26.8	26.9	24.1	20.8	14.5	14.2	27.0	25.5
87.5°	22.6	22.3	21.3	20.6	19.6	16.6	13.8	8.1	8.4	16.7	17.8
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):

	175°	180°
0°	221.7	221.7
2.5°	220.6	220.6
5°	220.6	220.6
7.5°	218.8	218.2
10°	213.5	212.8
12.5°	205.4	204.7
15°	193.0	192.2
17.5°	177.5	176.1
20°	161.4	159.4
22.5°	145.2	143.7
25°	128.6	127.2
27.5°	112.3	110.9
30°	97.3	96.7
32.5°	86.1	85.6
35°	77.9	77.6
37.5°	72.3	72.0
40°	67.4	67.2
42.5°	63.0	62.6
45°	58.5	58.7
47.5°	54.1	53.9
50°	50.2	50.2
52.5°	47.0	46.8
55°	44.0	43.9
57.5°	41.1	41.0
60°	38.6	38.2
62.5°	36.2	36.0
65°	34.7	34.6
67.5°	33.6	33.2
70°	33.3	32.2
72.5°	32.5	31.1
75°	30.5	29.8
77.5°	26.9	26.1
80°	20.8	19.2
82.5°	17.4	15.0
85°	12.8	11.8
87.5°	9.3	7.4
90°	0.0	0.0

(END OF REPORT)