

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: P144827

Luminaire Tested: **LDRL-SL2-F01-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144827
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-7060
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2480.2 lumens
Efficiency: N/A
Efficacy: 95.8 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

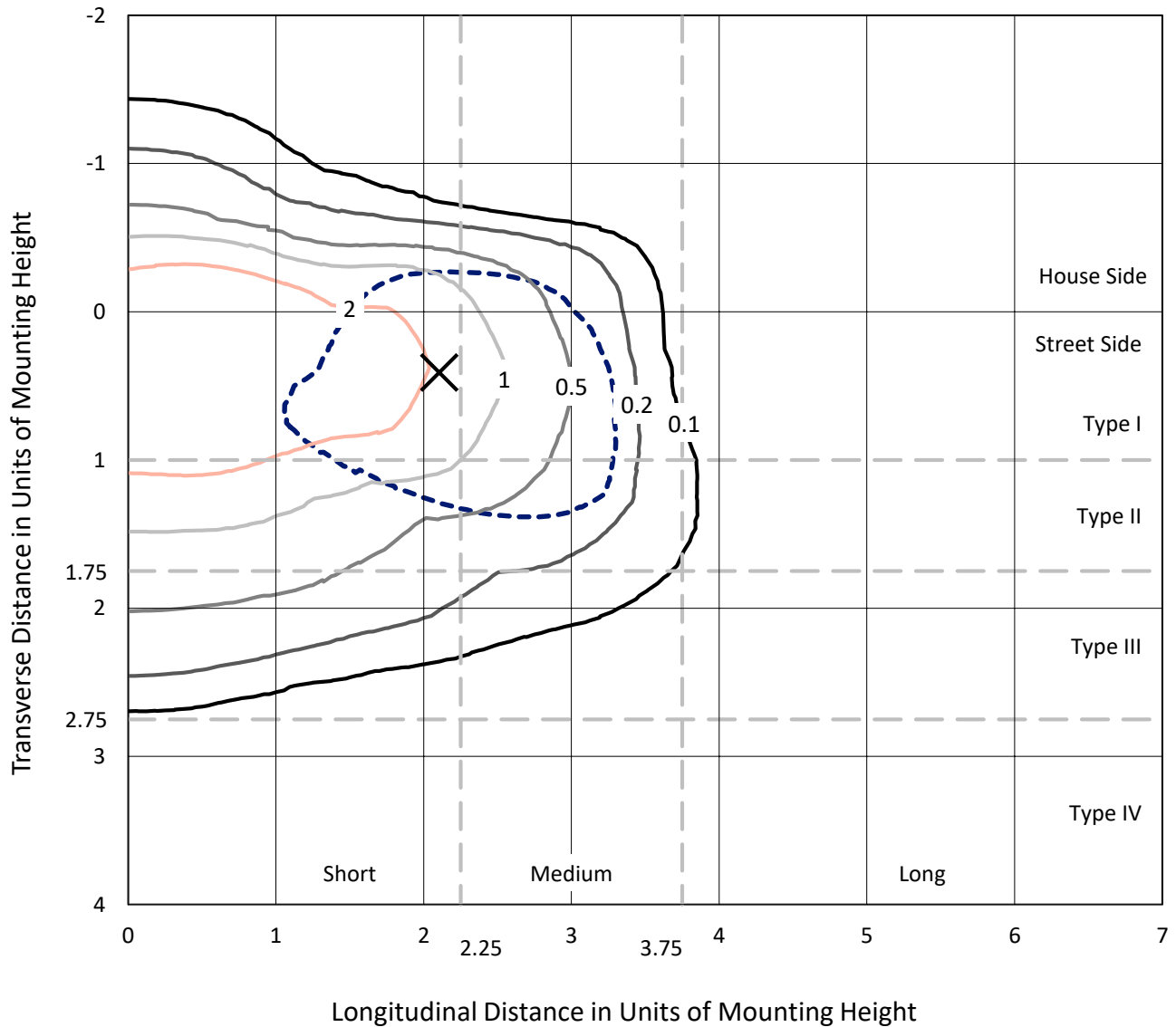
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

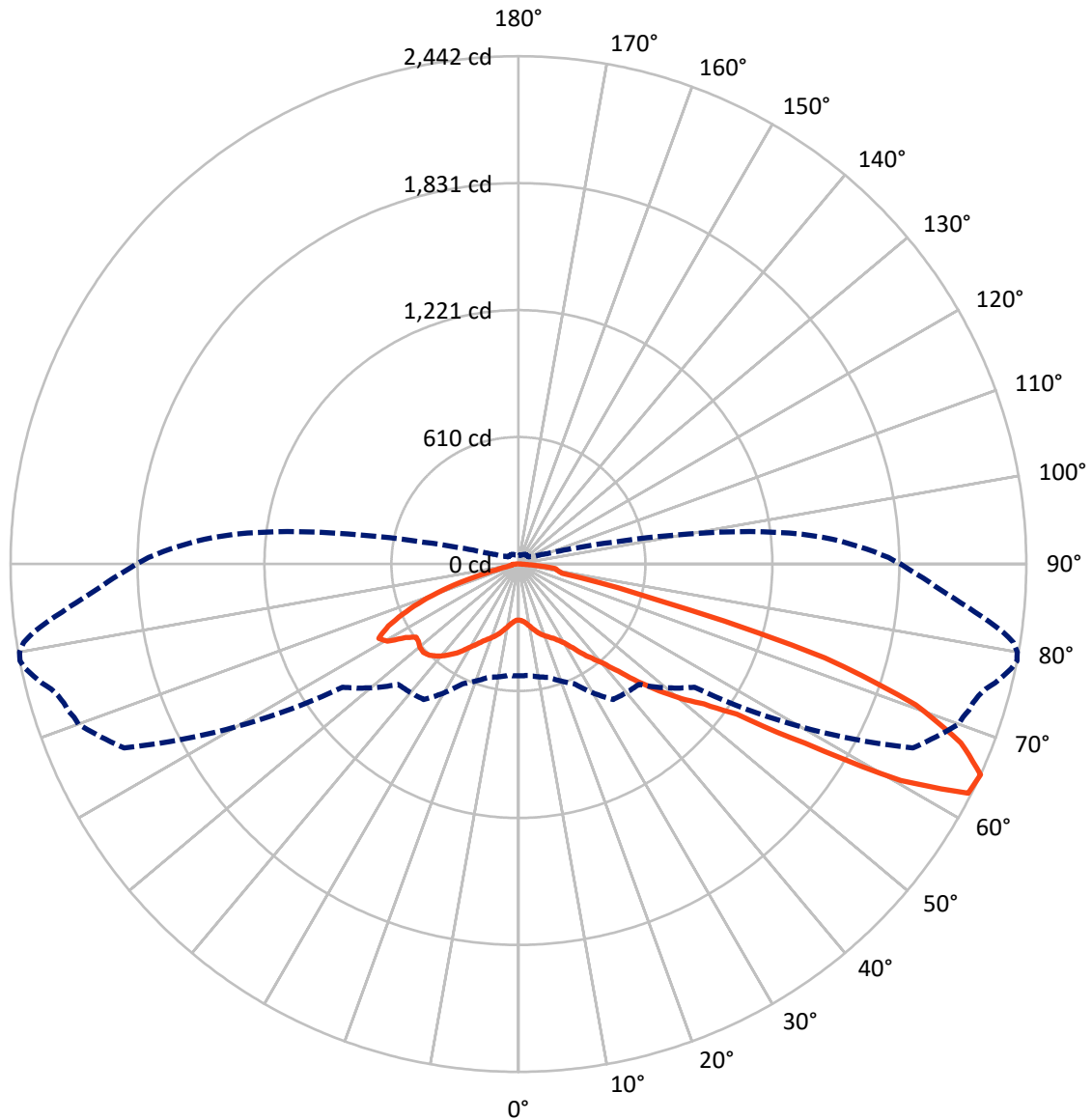
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 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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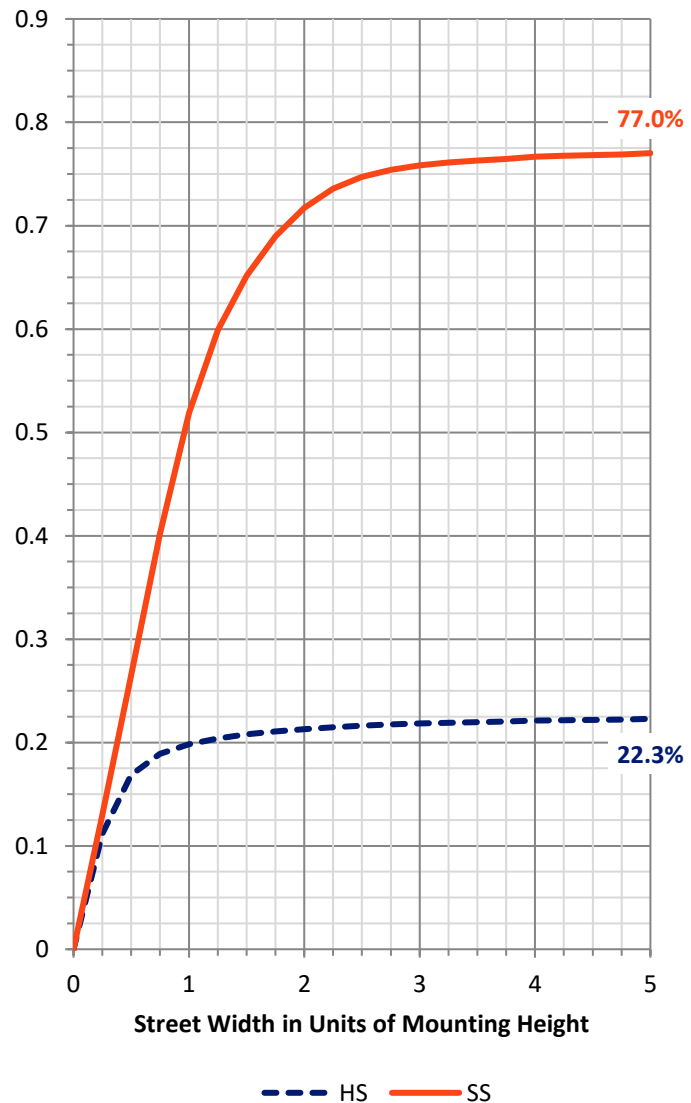
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	563.0	0.0	563.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	1917.2	0.0	1917.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	2480.2	0.0	2480.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	1.1
10°-20°	87.1	3.5
20°-30°	150.1	6.1
30°-40°	244.8	9.9
40°-50°	408.8	16.5
50°-60°	552.7	22.3
60°-70°	686.6	27.7
70°-80°	274.9	11.1
80°-90°	48.3	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°	2480.2	100.0
0°-180°	2480.2	100.0



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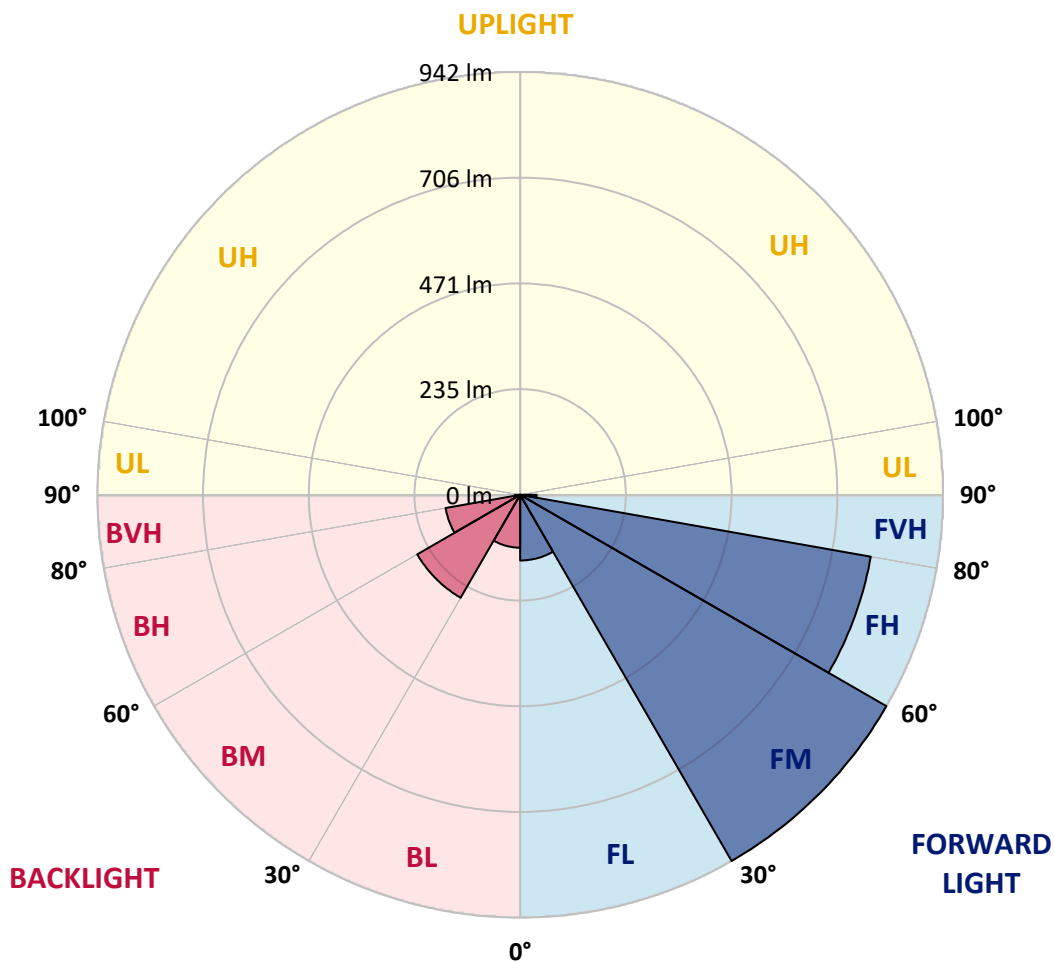
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.3	5.9			
FM (30°-60°)	941.5	38.0			
FH (60°-80°)	792.8	32.0			G1/1800
FVH (80°-90°)	36.6	1.5			G1/100
BL (0°-30°)	117.7	4.7	B1/500		
BM (30°-60°)	264.8	10.7	B1/1000		
BH (60°-80°)	168.8	6.8	B1/500		G1/500
BVH (80°-90°)	11.7	0.5			G1/100
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°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
2.5°	271.6	271.4	272.3	272.9	272.9	273.3	273.1	272.1	272.3	272.6	272.3
5°	274.6	273.9	274.8	275.8	276.5	277.3	278.2	278.3	279.0	279.0	278.9
7.5°	281.2	280.7	281.9	282.2	283.8	285.1	286.8	288.0	288.7	289.0	289.5
10°	292.6	292.2	292.6	293.3	293.9	295.5	298.3	300.9	302.4	302.4	303.1
12.5°	306.3	304.9	305.3	303.9	304.3	307.5	310.9	315.1	317.7	318.0	318.3
15°	317.0	316.3	315.8	313.9	315.3	319.5	324.8	330.9	333.1	334.9	334.8
17.5°	327.0	326.1	324.9	322.4	323.8	330.5	338.5	345.3	349.0	349.3	349.7
20°	338.8	337.8	335.6	330.4	330.0	339.5	350.2	357.5	360.9	362.4	362.9
22.5°	353.9	352.6	348.5	338.3	335.6	346.8	359.5	368.5	372.0	373.6	374.4
25°	373.2	370.5	364.1	348.1	342.6	354.2	369.5	380.3	385.2	386.8	387.8
27.5°	390.7	388.6	380.8	362.0	352.4	364.2	381.7	395.6	402.4	404.2	405.7
30°	411.0	408.1	401.9	381.9	369.0	379.5	401.7	419.3	427.6	427.8	431.2
32.5°	458.8	456.9	451.2	429.1	407.4	408.1	428.8	453.0	461.3	462.7	465.7
35°	529.6	528.9	528.7	516.5	500.5	483.8	485.4	503.8	509.4	511.6	512.7
37.5°	576.2	582.1	596.5	605.3	601.3	604.8	586.2	563.6	560.4	558.1	559.1
40°	616.3	621.6	650.7	691.4	716.1	733.6	717.1	648.0	622.3	614.8	611.9
42.5°	640.1	646.0	687.7	752.7	815.7	857.1	861.5	765.4	700.0	699.2	688.3
45°	652.9	658.9	708.7	796.3	885.4	959.9	998.5	909.9	813.9	806.8	791.7
47.5°	650.4	656.0	707.8	812.3	926.5	1028.2	1105.4	1056.0	945.2	928.1	907.2
50°	619.4	623.4	677.8	786.1	915.5	1056.6	1178.6	1190.0	1093.7	1070.5	1039.4
52.5°	587.4	594.6	639.7	739.5	865.5	1039.0	1222.3	1312.0	1232.5	1216.6	1176.6
55°	570.1	575.8	612.6	697.8	812.9	978.9	1240.5	1427.0	1401.1	1394.6	1366.3
57.5°	569.4	575.0	604.3	672.6	770.0	916.2	1245.7	1604.7	1680.8	1682.5	1674.3
60°	597.2	602.9	627.5	684.8	756.8	862.5	1226.9	1856.8	2024.8	2039.8	2064.7
62.5°	601.1	603.8	633.4	710.7	804.9	822.3	1149.5	2066.7	2261.4	2275.1	2288.8
65°	537.7	537.6	563.8	635.0	794.9	818.3	1033.1	2092.4	2251.9	2260.2	2277.3
67.5°	401.0	397.6	412.5	477.6	630.7	819.3	895.2	1898.1	2076.4	2092.1	2097.9
70°	206.7	211.9	222.1	261.9	400.5	659.5	769.0	1601.5	1822.7	1828.7	1849.2
72.5°	84.9	82.7	89.6	110.1	200.4	435.9	636.2	1263.8	1505.4	1501.4	1505.1
75°	47.3	47.9	50.0	57.4	97.4	218.9	546.5	894.7	1023.8	953.6	932.5
77.5°	37.9	38.3	38.5	39.8	53.2	116.7	419.5	589.2	514.9	478.1	464.0
80°	27.8	29.6	31.7	32.0	36.6	66.2	230.1	496.0	434.5	404.1	379.0
82.5°	22.4	23.2	27.6	28.3	29.1	39.5	104.2	465.9	432.9	401.7	367.1
85°	13.4	14.9	22.5	22.7	23.0	24.1	57.6	189.7	236.0	208.6	190.9
87.5°	4.7	6.1	11.2	9.3	11.9	9.8	25.2	63.5	78.3	74.4	65.9
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
2.5°	272.1	272.1	272.4	272.3	272.3	272.3	272.3	271.9	271.9	271.4	271.7
5°	278.9	278.7	278.9	279.0	278.9	279.2	279.0	278.9	279.0	278.9	279.0
7.5°	289.7	288.9	290.0	289.4	289.2	290.2	289.7	290.2	290.4	290.2	290.0
10°	303.4	303.9	303.9	303.9	303.6	304.6	304.8	305.1	305.3	306.0	306.0
12.5°	319.2	319.3	320.0	319.9	320.2	321.4	322.2	322.4	322.6	323.1	322.4
15°	336.1	336.5	336.5	338.0	337.5	339.2	339.7	339.7	339.8	341.9	342.0
17.5°	351.2	351.2	352.6	352.6	353.9	354.2	355.8	355.9	356.6	358.5	358.7
20°	363.9	364.6	365.4	366.4	367.0	368.0	369.0	370.0	370.8	372.4	372.5
22.5°	375.9	376.6	378.0	378.6	379.8	380.5	381.4	382.5	383.9	385.9	386.4
25°	389.8	390.5	392.0	393.0	394.4	395.4	396.9	398.5	399.3	401.3	402.9
27.5°	407.4	409.5	411.5	412.0	413.0	415.4	417.4	419.5	421.3	422.4	424.2
30°	433.2	433.2	437.4	437.4	439.3	441.5	442.9	445.1	448.4	449.5	451.8
32.5°	467.8	468.6	470.1	474.7	478.1	479.1	480.1	483.3	485.4	487.9	490.8
35°	517.1	517.9	518.7	523.2	527.1	528.1	529.1	531.1	534.5	538.9	537.6
37.5°	561.3	561.8	564.5	569.4	571.6	574.3	575.2	578.9	580.8	584.8	585.0
40°	614.5	613.3	614.8	620.4	623.8	623.6	626.3	633.1	634.5	636.3	641.1
42.5°	688.7	684.3	689.0	690.9	696.0	699.2	704.6	709.2	712.4	719.5	722.9
45°	784.6	780.0	783.9	784.7	795.2	798.5	806.6	812.7	819.6	827.8	830.1
47.5°	893.8	885.4	880.6	885.9	898.4	903.7	911.6	917.4	924.7	928.9	927.5
50°	1020.4	1000.1	990.6	987.9	996.8	1004.3	1016.7	1019.4	1022.8	1022.6	1022.8
52.5°	1161.5	1140.3	1120.5	1106.8	1105.4	1115.4	1118.5	1119.2	1118.1	1110.5	1105.8
55°	1345.8	1344.3	1323.5	1295.0	1293.1	1292.0	1274.2	1272.0	1267.9	1256.2	1240.1
57.5°	1680.3	1697.2	1683.5	1682.8	1667.9	1658.1	1625.4	1609.1	1592.0	1560.3	1535.1
60°	2066.9	2091.4	2105.0	2110.9	2140.1	2140.1	2113.3	2090.2	2062.5	2014.2	1967.1
62.5°	2299.6	2321.2	2341.1	2372.5	2409.6	2426.0	2427.4	2406.9	2371.8	2316.8	2250.2
65°	2284.9	2300.8	2325.1	2362.0	2392.6	2422.1	2441.9	2435.7	2408.9	2353.9	2281.3
67.5°	2118.0	2141.2	2172.6	2206.6	2235.1	2262.9	2294.9	2297.3	2290.2	2237.8	2172.2
70°	1860.5	1890.3	1910.2	1953.0	1965.9	1994.0	2026.2	2041.6	2030.1	1989.8	1951.3
72.5°	1511.5	1535.1	1538.5	1519.8	1526.3	1533.2	1541.0	1504.9	1491.0	1437.1	1412.4
75°	916.5	885.5	859.4	833.5	756.1	728.7	686.5	603.3	593.8	536.7	497.1
77.5°	435.9	422.9	399.3	359.8	307.3	257.0	213.3	173.3	158.4	130.4	111.1
80°	364.9	349.3	328.2	298.8	262.1	225.5	190.9	161.3	131.5	107.1	85.6
82.5°	334.8	307.7	277.8	252.6	226.7	201.8	178.6	151.8	136.0	109.8	89.6
85°	169.2	148.2	120.1	101.1	85.4	69.5	60.1	51.3	45.7	36.4	31.7
87.5°	56.8	46.4	34.6	29.3	26.4	22.7	20.8	19.8	19.3	17.1	15.2
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
2.5°	271.7	271.7	271.7	271.7	271.6	271.6	271.6	271.6	271.6	271.6	271.7
5°	278.7	278.7	278.9	279.4	278.3	278.7	279.0	278.5	279.0	278.5	279.2
7.5°	289.9	290.4	290.0	290.7	290.4	291.4	290.7	290.2	290.5	290.5	290.7
10°	305.6	306.3	305.8	306.1	306.1	306.8	306.0	306.1	306.3	306.0	306.1
12.5°	323.1	323.4	323.2	324.3	323.8	324.3	323.8	324.4	324.8	325.1	325.1
15°	342.0	342.4	343.4	343.2	344.3	343.9	344.1	343.2	344.9	343.9	344.3
17.5°	359.5	359.3	360.7	361.2	361.4	361.5	362.0	361.4	361.5	362.0	361.7
20°	373.1	374.2	374.6	375.9	376.9	377.3	377.1	377.6	378.3	377.6	377.6
22.5°	387.5	389.1	389.7	390.5	391.5	391.7	392.7	393.2	393.6	393.4	393.6
25°	404.7	405.9	407.1	408.8	410.0	410.2	411.0	411.7	411.8	411.7	412.7
27.5°	425.9	427.4	429.0	431.0	432.3	432.7	434.5	434.5	435.6	436.1	436.4
30°	453.2	453.7	457.6	459.6	459.1	461.5	464.0	463.9	465.0	465.4	466.2
32.5°	492.8	492.8	496.2	498.8	501.5	500.6	504.5	503.8	505.7	506.7	506.2
35°	540.9	542.6	545.2	546.7	549.6	551.1	553.8	555.3	556.2	556.0	554.2
37.5°	590.6	593.3	594.3	598.0	600.9	603.5	603.8	602.1	602.8	599.4	598.4
40°	647.3	651.2	653.6	659.2	658.9	662.1	662.4	657.5	656.7	652.2	647.7
42.5°	726.6	732.0	733.9	738.1	734.8	736.3	727.8	725.8	719.0	711.9	701.5
45°	833.5	830.8	832.0	830.8	821.8	815.2	808.3	798.3	788.3	774.6	759.8
47.5°	927.5	928.9	920.1	914.5	899.9	890.6	877.9	860.5	848.3	829.8	810.3
50°	1018.9	1003.8	991.4	978.5	965.7	948.6	929.4	914.0	896.2	873.2	849.3
52.5°	1093.1	1073.6	1058.7	1040.4	1022.9	1004.0	984.0	961.6	938.2	915.2	885.7
55°	1224.5	1196.2	1177.1	1145.1	1125.3	1098.7	1083.1	1054.1	1021.6	991.1	959.7
57.5°	1506.6	1464.3	1442.4	1424.3	1393.4	1349.7	1321.9	1274.3	1227.9	1195.4	1143.2
60°	1931.5	1888.5	1852.2	1809.4	1762.1	1702.8	1676.4	1620.3	1553.9	1500.2	1431.2
62.5°	2196.3	2136.8	2078.0	2017.9	1970.5	1924.0	1869.3	1812.7	1747.0	1674.0	1598.6
65°	2207.0	2135.6	2065.3	2004.0	1948.4	1888.1	1836.8	1779.4	1710.2	1635.0	1556.8
67.5°	2096.2	2016.4	1941.0	1873.7	1810.2	1754.3	1700.6	1646.5	1572.5	1509.5	1429.4
70°	1875.4	1802.6	1734.3	1657.7	1609.1	1546.3	1493.9	1437.0	1384.0	1325.0	1249.9
72.5°	1377.5	1322.6	1244.7	1212.2	1186.1	1119.5	1080.5	1075.8	1041.9	971.3	915.2
75°	512.3	436.1	413.0	426.8	403.9	411.5	408.6	392.4	393.0	381.0	366.8
77.5°	100.3	93.2	87.6	89.1	82.8	80.1	85.9	84.2	81.1	82.0	80.6
80°	68.3	57.8	52.3	50.3	47.8	46.6	46.3	45.7	44.7	44.2	42.7
82.5°	67.3	50.0	39.5	33.9	31.9	30.8	30.0	29.8	29.5	29.3	29.8
85°	26.8	21.7	19.8	18.1	17.6	17.1	17.1	16.9	16.8	17.1	17.8
87.5°	13.0	11.0	10.0	9.1	8.8	8.6	8.6	8.8	9.0	9.7	11.0
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
2.5°	271.4	271.6	271.2	271.4	271.2	270.9	270.7	271.2	271.1	270.9	270.9
5°	278.3	279.0	278.7	278.3	278.3	278.2	278.2	278.2	278.0	278.2	277.7
7.5°	290.4	290.2	290.2	289.9	289.5	289.9	289.7	289.2	289.4	289.0	288.5
10°	305.8	305.3	306.1	306.1	305.5	305.3	304.9	304.4	304.4	303.9	303.9
12.5°	324.1	323.6	324.8	323.9	322.9	322.7	321.7	321.4	321.9	321.7	321.4
15°	342.7	342.9	343.4	343.2	342.0	342.0	340.7	340.9	339.8	339.5	338.7
17.5°	360.9	361.0	360.5	360.5	359.7	359.2	357.6	357.8	357.1	355.8	354.8
20°	377.1	376.9	375.8	376.8	375.1	374.7	373.4	372.0	372.4	371.0	369.0
22.5°	393.0	392.7	392.4	391.9	391.0	390.7	389.1	389.0	387.3	385.2	383.6
25°	411.5	411.3	410.8	411.0	409.3	409.5	406.8	406.1	405.1	402.9	401.5
27.5°	435.4	435.4	434.0	433.5	433.0	432.3	430.0	428.3	425.7	423.2	420.5
30°	464.7	464.4	464.0	462.7	460.8	459.8	455.6	452.8	449.5	444.7	440.6
32.5°	506.6	503.7	501.3	498.2	495.2	492.0	485.4	480.8	475.4	467.8	461.3
35°	553.1	548.2	545.7	539.4	533.7	527.2	519.3	509.9	502.5	492.5	482.0
37.5°	591.6	587.9	581.1	574.0	565.8	553.6	544.7	534.7	521.6	510.6	497.9
40°	639.0	630.6	620.9	609.0	597.9	584.1	571.8	557.4	541.5	525.5	508.9
42.5°	688.8	675.8	659.9	646.1	629.2	611.2	595.2	575.7	555.3	534.0	511.8
45°	739.7	723.6	702.4	682.9	659.4	636.8	613.8	587.2	559.4	530.9	503.0
47.5°	786.3	762.7	738.6	712.4	685.3	656.3	623.6	588.7	552.1	514.7	479.8
50°	822.8	793.4	763.0	732.7	699.5	661.9	620.7	575.2	530.1	485.2	445.1
52.5°	855.2	822.2	784.9	747.3	706.3	660.0	608.5	554.8	499.9	450.3	405.2
55°	917.9	876.4	827.3	778.8	727.0	668.7	604.5	538.7	475.5	421.5	373.6
57.5°	1088.2	1032.1	956.0	888.8	823.0	738.1	647.7	566.7	486.2	422.4	369.0
60°	1356.3	1265.0	1177.9	1075.4	969.1	852.7	731.4	622.3	524.2	444.0	379.8
62.5°	1511.9	1415.5	1303.5	1179.3	1041.4	899.6	760.3	632.9	525.4	438.1	367.0
65°	1469.8	1372.9	1249.8	1122.7	976.0	831.0	692.7	570.4	466.1	385.4	317.3
67.5°	1345.2	1243.8	1128.1	987.2	846.9	712.6	586.5	471.3	379.0	303.8	243.6
70°	1163.7	1073.6	962.1	832.2	696.1	575.3	469.1	365.3	287.2	218.2	170.8
72.5°	863.7	783.9	714.3	605.7	506.0	411.3	324.8	254.1	186.9	141.3	108.8
75°	362.5	335.6	324.3	284.4	247.3	202.8	152.6	121.6	98.6	83.9	66.6
77.5°	87.9	87.9	82.7	77.4	71.2	64.4	56.9	50.8	47.8	45.1	42.9
80°	42.7	42.4	41.0	40.8	39.6	38.1	37.3	36.1	35.6	34.9	34.6
82.5°	30.0	29.8	29.3	30.0	29.8	30.5	30.8	31.0	31.0	31.2	31.3
85°	19.0	19.7	21.0	22.7	24.2	26.1	27.8	29.1	30.2	31.0	31.7
87.5°	12.0	13.7	14.7	17.3	19.8	22.7	25.9	27.3	28.5	28.6	27.6
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
2.5°	270.9	270.7	271.1	270.7	270.7	270.6	270.0	269.5	269.0	268.9	268.4
5°	277.5	277.5	277.8	277.2	277.3	276.7	275.1	273.4	271.9	270.6	269.0
7.5°	288.7	288.2	288.3	288.2	287.8	286.5	283.1	278.9	274.8	270.6	267.2
10°	303.6	302.6	302.6	302.2	301.7	299.9	292.7	284.3	275.8	268.2	262.6
12.5°	320.2	320.4	319.0	318.2	317.3	313.4	302.7	289.2	275.8	263.6	254.6
15°	337.5	337.3	335.8	335.3	333.4	327.6	311.6	291.7	272.6	254.6	241.2
17.5°	353.1	352.4	350.9	349.8	347.8	340.2	317.5	290.5	264.1	240.6	223.8
20°	367.3	366.4	365.1	363.2	361.2	350.2	319.7	284.4	250.7	223.8	206.9
22.5°	382.0	380.2	378.6	376.1	373.9	359.2	318.2	273.6	235.5	205.2	187.0
25°	398.5	396.3	393.0	390.0	386.6	366.4	313.9	260.1	217.2	185.0	166.7
27.5°	416.3	413.0	408.8	404.9	399.5	371.9	306.6	245.0	197.2	165.0	146.0
30°	435.1	429.1	423.9	417.9	411.0	374.4	296.1	226.3	175.2	144.7	125.7
32.5°	453.4	445.4	437.6	429.0	419.5	373.4	281.2	204.3	153.2	125.7	109.8
35°	472.0	460.5	449.6	437.9	426.4	368.3	260.7	179.9	132.3	110.0	98.4
37.5°	484.7	470.3	455.9	441.8	427.9	357.3	233.5	152.6	113.5	98.6	90.3
40°	491.1	473.5	455.9	438.4	421.3	339.0	201.6	127.7	100.1	90.1	84.2
42.5°	489.3	467.4	445.6	424.9	403.9	309.9	167.0	107.2	90.8	83.5	78.3
45°	473.9	447.8	422.9	401.0	374.7	272.4	137.2	94.5	83.7	78.1	73.2
47.5°	444.9	415.7	385.2	360.5	336.0	229.0	114.2	86.6	77.4	72.8	67.9
50°	408.0	374.2	343.7	317.0	292.9	188.6	98.4	79.8	72.3	68.4	63.2
52.5°	367.3	331.0	303.3	275.1	251.6	157.4	87.4	72.3	67.4	63.4	59.1
55°	333.6	300.0	271.7	243.4	219.7	137.7	78.3	66.6	62.9	58.6	55.2
57.5°	324.6	286.3	255.5	228.7	204.3	125.7	71.7	61.3	58.8	55.6	51.8
60°	328.3	286.1	251.6	222.3	196.7	116.0	66.7	57.8	55.7	52.9	49.0
62.5°	314.9	270.4	235.5	204.3	180.1	103.9	63.2	56.1	54.7	50.8	46.4
65°	268.4	227.5	194.0	167.0	146.2	87.4	60.3	57.6	56.2	49.5	44.7
67.5°	204.3	170.3	143.3	123.2	108.1	72.3	59.6	62.7	60.0	50.1	44.2
70°	141.3	115.5	98.3	86.1	76.6	61.0	61.8	68.3	64.4	52.3	47.1
72.5°	89.6	74.9	66.4	61.8	57.3	51.5	61.3	67.6	62.3	52.7	47.1
75°	57.4	51.3	48.5	46.8	45.4	44.9	54.0	55.6	50.1	45.7	43.9
77.5°	40.7	39.6	39.1	39.0	39.1	40.3	44.7	41.8	36.4	36.6	37.6
80°	34.4	34.4	34.1	34.2	34.6	35.1	35.7	30.8	28.0	30.2	33.5
82.5°	31.5	32.0	32.4	32.7	33.2	32.5	30.3	23.4	22.5	29.3	32.9
85°	32.0	32.0	32.2	32.5	32.7	29.3	25.2	17.6	17.3	32.9	31.0
87.5°	27.4	27.1	25.9	25.1	23.9	20.2	16.8	9.8	10.2	20.3	21.7
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):

	175°	180°
0°	269.5	269.5
2.5°	268.2	268.2
5°	268.2	268.2
7.5°	266.0	265.3
10°	259.5	258.7
12.5°	249.7	248.9
15°	234.6	233.6
17.5°	215.8	214.1
20°	196.2	193.8
22.5°	176.5	174.7
25°	156.4	154.7
27.5°	136.5	134.9
30°	118.3	117.6
32.5°	104.7	104.0
35°	94.7	94.4
37.5°	87.9	87.6
40°	82.0	81.7
42.5°	76.6	76.1
45°	71.2	71.3
47.5°	65.7	65.6
50°	61.0	61.0
52.5°	57.1	56.9
55°	53.5	53.4
57.5°	50.0	49.8
60°	46.9	46.4
62.5°	44.0	43.7
65°	42.2	42.0
67.5°	40.8	40.3
70°	40.5	39.1
72.5°	39.5	37.8
75°	37.1	36.3
77.5°	32.7	31.7
80°	25.2	23.4
82.5°	21.2	18.3
85°	15.6	14.4
87.5°	11.4	9.0
90°	0.0	0.0

(END OF REPORT)