

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: P146345

Luminaire Tested: **LDRL-T2-F03-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146345
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-T2-F03-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7426.2 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

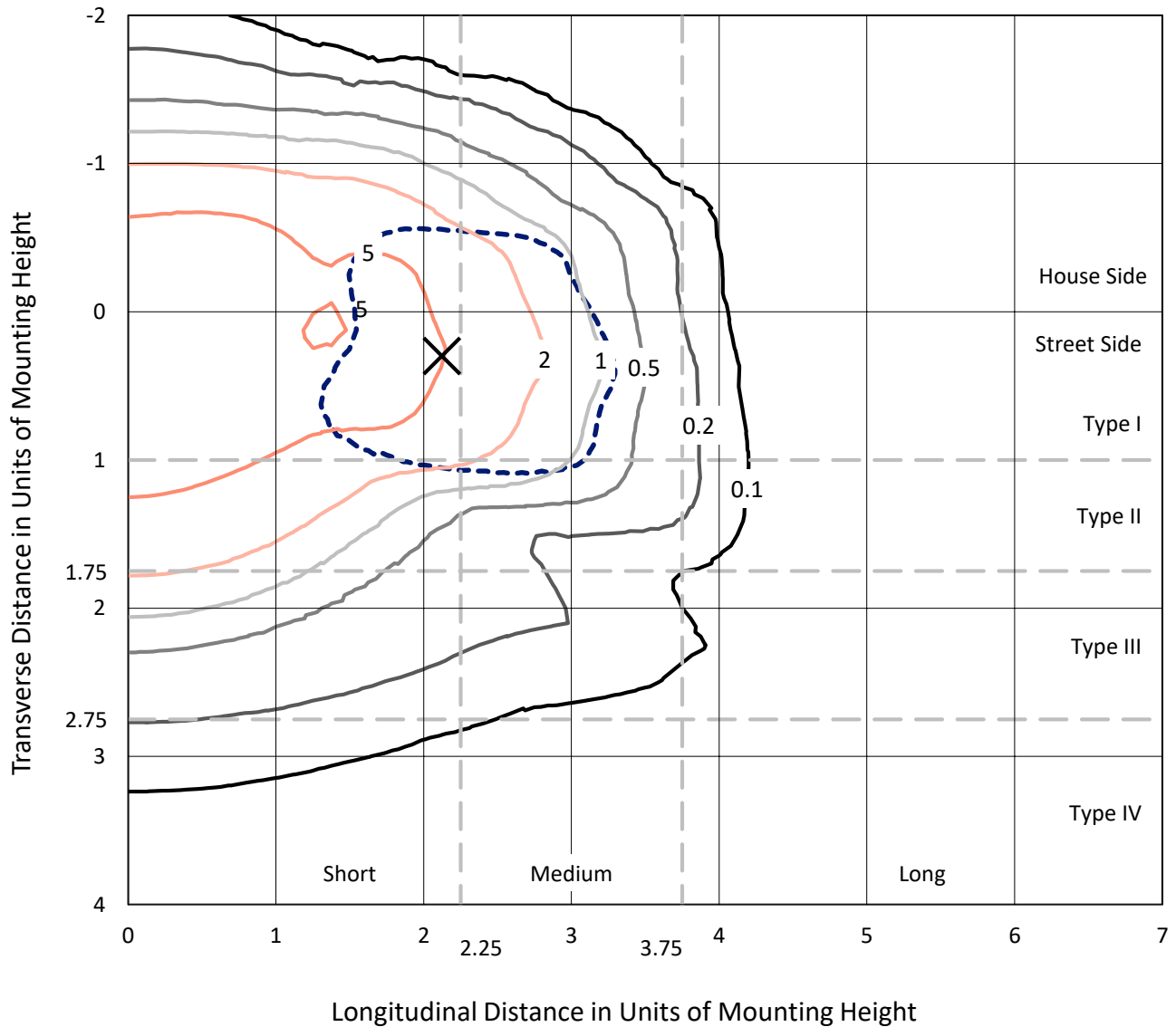
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

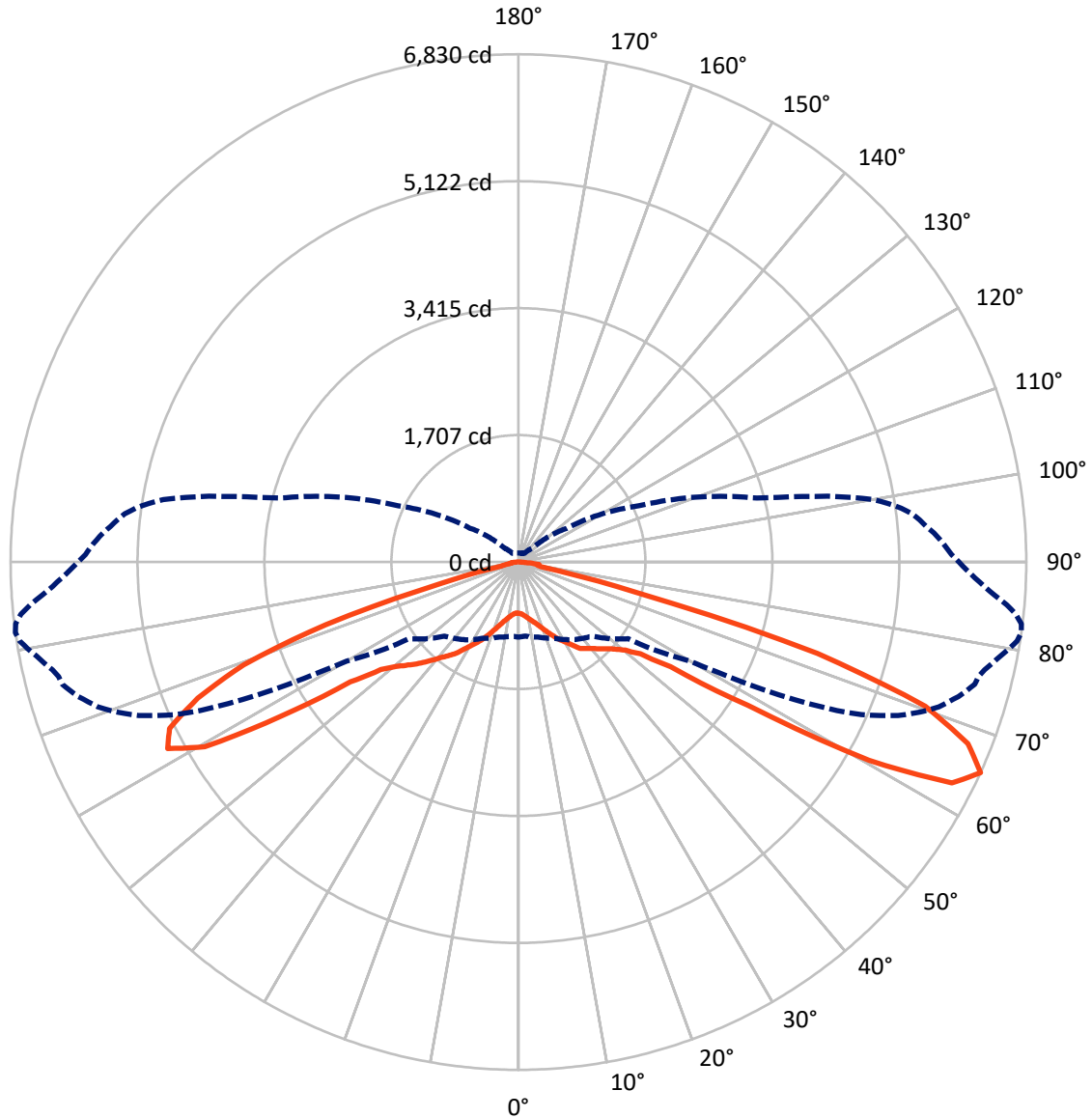
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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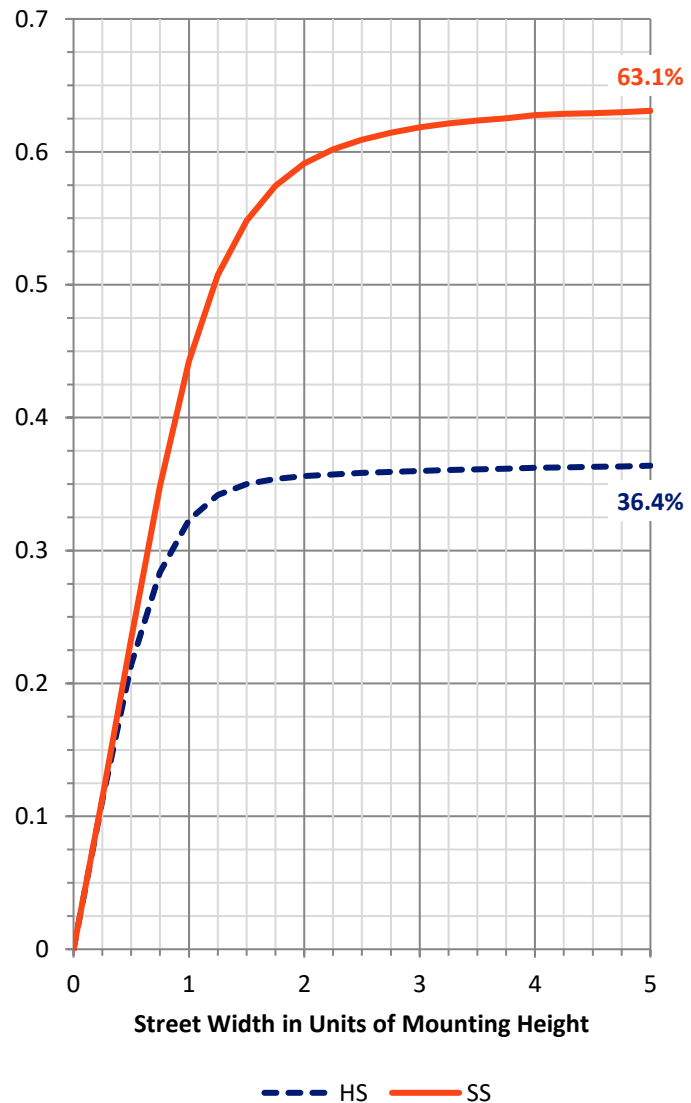
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2733.6	0.0	2733.6
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	4692.6	0.0	4692.6
	% Fixture	63.2	0.0	63.2
Total	Lumens	7426.2	0.0	7426.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	0.9
10°-20°	245.9	3.3
20°-30°	487.8	6.6
30°-40°	832.3	11.2
40°-50°	1248.1	16.8
50°-60°	1737.2	23.4
60°-70°	1995.8	26.9
70°-80°	688.7	9.3
80°-90°	120.4	1.6
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°	7426.2	100.0
0°-180°	7426.2	100.0

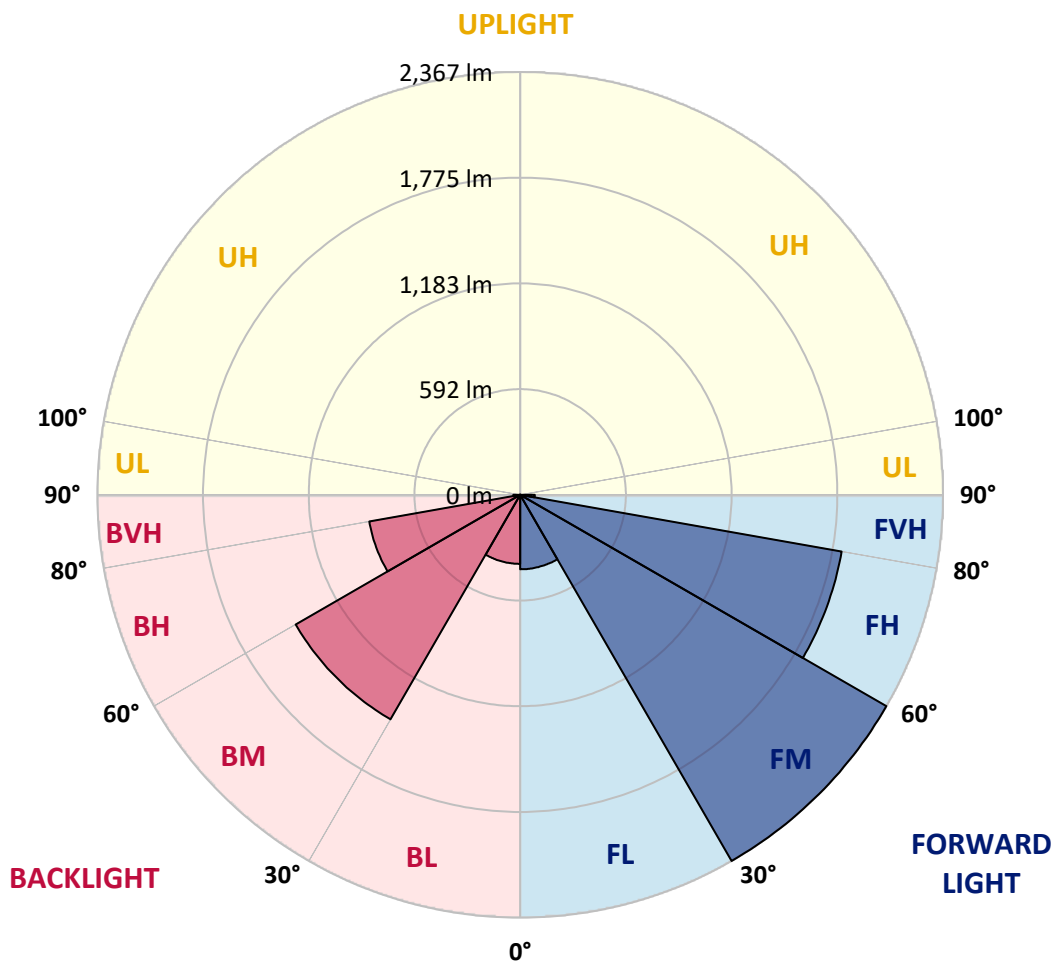


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.9	5.6			
FM (30°-60°)	2366.8	31.9			
FH (60°-80°)	1827.1	24.6			G2/5000
FVH (80°-90°)	81.8	1.1			G1/100
BL (0°-30°)	386.7	5.2	B1/500		
BM (30°-60°)	1450.8	19.5	B2/2500		
BH (60°-80°)	857.5	11.5	B2/1000		G2/1000
BVH (80°-90°)	38.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
2.5°	726.1	725.6	725.1	723.2	722.2	718.2	714.2	711.8	709.8	710.8	707.8
5°	768.2	768.2	766.3	763.8	760.8	755.4	745.4	740.5	739.5	739.5	736.0
7.5°	811.3	814.3	808.8	806.9	801.9	793.5	782.1	775.7	773.7	773.7	770.7
10°	865.8	864.3	858.4	854.4	844.5	833.1	817.8	810.3	807.4	809.8	804.9
12.5°	923.3	922.8	913.9	906.4	892.6	874.2	853.9	844.0	842.0	842.0	839.1
15°	981.7	982.2	972.3	958.4	936.6	911.9	889.1	879.7	877.2	876.2	872.7
17.5°	1026.3	1031.2	1021.3	1003.5	976.8	949.5	925.2	915.8	915.3	914.4	910.4
20°	1051.6	1052.5	1047.1	1034.2	1010.4	984.2	967.4	962.9	962.4	962.9	963.9
22.5°	1050.6	1052.0	1050.1	1045.1	1029.8	1015.4	1013.4	1015.9	1017.4	1015.9	1019.4
25°	1042.6	1044.6	1044.6	1047.1	1043.1	1048.1	1063.9	1070.9	1071.4	1072.4	1079.8
27.5°	1060.0	1062.0	1061.5	1065.9	1069.4	1086.7	1115.4	1127.8	1129.3	1132.8	1139.7
30°	1140.2	1140.7	1131.8	1131.3	1134.8	1148.6	1177.9	1192.2	1190.7	1197.7	1202.1
32.5°	1267.0	1271.0	1262.1	1252.7	1251.2	1253.1	1258.6	1268.5	1267.0	1270.5	1276.4
35°	1411.6	1412.1	1407.2	1412.6	1415.6	1402.2	1376.5	1374.0	1366.1	1367.6	1369.5
37.5°	1544.4	1547.9	1557.3	1591.9	1611.8	1579.1	1528.5	1496.8	1491.9	1489.4	1472.1
40°	1668.7	1686.1	1708.8	1753.9	1781.2	1793.0	1721.2	1657.3	1640.0	1633.1	1605.8
42.5°	1814.3	1823.3	1850.0	1901.5	1937.7	1991.7	1943.6	1873.3	1853.0	1823.3	1789.1
45°	1937.7	1943.6	1960.5	2004.0	2079.8	2170.0	2175.4	2126.4	2110.5	2080.8	2030.8
47.5°	2020.4	2019.9	2032.3	2074.9	2173.4	2311.1	2392.9	2390.9	2372.6	2362.2	2319.6
50°	2052.6	2052.1	2060.0	2107.6	2215.0	2395.3	2575.6	2637.6	2637.1	2641.0	2619.2
52.5°	2058.5	2058.0	2059.0	2097.2	2206.6	2424.6	2707.4	2853.5	2874.8	2901.6	2925.8
55°	2014.0	2018.9	2029.8	2069.9	2174.9	2412.7	2805.0	3056.1	3107.1	3161.6	3249.8
57.5°	1910.9	1920.3	1958.0	2029.8	2141.2	2383.5	2872.8	3306.7	3410.2	3542.0	3780.7
60°	1763.3	1771.7	1823.7	1918.9	2043.2	2256.2	2794.1	3411.7	3608.4	3837.2	4326.6
62.5°	1502.3	1526.1	1553.8	1621.2	1751.4	1922.8	2440.4	3234.4	3539.0	3874.8	4548.5
65°	1009.0	999.1	1045.1	1130.8	1274.0	1407.2	1798.0	2667.8	3053.1	3515.3	4348.9
67.5°	624.6	626.1	657.3	741.0	849.0	952.5	1139.7	1700.4	2042.2	2481.5	3484.0
70°	516.1	522.1	547.3	625.1	717.2	834.1	846.0	901.5	1054.5	1267.0	2152.1
72.5°	409.6	412.1	437.9	502.7	633.0	793.5	1004.5	685.0	673.1	705.3	1091.7
75°	254.1	256.1	269.0	310.6	410.6	618.2	1106.0	787.6	738.0	696.4	703.3
77.5°	131.3	135.2	142.2	161.0	215.5	345.2	870.8	998.6	942.1	885.6	775.2
80°	74.3	74.3	80.7	85.2	102.0	140.7	442.8	1080.8	1180.8	1205.1	1082.3
82.5°	33.2	37.1	50.0	53.5	58.4	64.4	146.6	649.4	901.0	1125.4	1390.8
85°	19.8	19.3	31.7	34.7	36.2	30.7	55.0	265.0	421.0	616.2	921.8
87.5°	7.9	8.4	13.4	14.4	16.8	12.4	20.8	57.0	83.7	121.4	171.4
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
2.5°	707.3	707.3	706.8	706.3	705.8	704.3	703.8	702.9	702.4	700.9	700.4
5°	735.5	734.1	733.6	732.6	732.1	730.1	730.1	728.1	726.6	724.6	724.2
7.5°	769.2	767.2	765.8	764.8	764.3	760.8	760.8	757.8	757.3	754.9	753.9
10°	803.4	801.9	799.9	798.9	798.4	796.5	794.5	792.5	791.0	789.5	787.6
12.5°	837.6	834.6	833.6	832.1	831.1	829.7	829.2	824.7	824.7	823.2	821.2
15°	870.8	870.3	866.8	866.3	865.3	865.8	862.8	863.3	861.8	859.4	858.4
17.5°	911.4	907.9	909.4	906.9	907.4	906.4	905.4	904.9	905.9	905.4	906.4
20°	961.9	960.9	962.4	958.9	962.4	962.9	961.9	964.4	963.4	964.4	961.4
22.5°	1021.8	1018.4	1018.4	1020.8	1022.3	1026.8	1024.3	1026.3	1028.3	1029.8	1027.8
25°	1082.3	1081.3	1083.3	1085.2	1088.2	1092.2	1091.2	1091.7	1095.6	1098.1	1098.6
27.5°	1143.7	1143.7	1149.6	1149.6	1153.6	1158.0	1159.5	1161.5	1164.5	1168.0	1168.0
30°	1207.1	1207.1	1212.5	1217.5	1219.5	1224.9	1227.9	1230.9	1236.3	1237.3	1241.8
32.5°	1279.4	1280.9	1286.3	1289.3	1293.8	1300.2	1301.2	1304.7	1311.1	1313.1	1316.5
35°	1373.5	1368.6	1373.5	1379.0	1381.4	1379.5	1390.3	1394.8	1399.3	1401.7	1406.2
37.5°	1470.6	1462.2	1462.7	1461.7	1455.7	1459.2	1459.2	1458.2	1461.2	1460.7	1462.7
40°	1593.4	1578.6	1574.1	1564.7	1551.8	1544.9	1537.5	1536.5	1529.0	1532.0	1526.6
42.5°	1761.8	1739.5	1727.7	1698.4	1682.6	1663.8	1645.4	1629.6	1621.2	1611.8	1604.8
45°	1993.1	1966.9	1938.2	1891.1	1863.9	1826.2	1802.0	1765.8	1741.5	1721.2	1706.9
47.5°	2283.4	2239.3	2216.0	2172.0	2124.4	2067.4	2015.4	1964.9	1923.8	1879.2	1844.1
50°	2620.7	2565.7	2547.4	2489.0	2462.2	2398.3	2342.8	2280.4	2216.0	2148.7	2084.3
52.5°	2919.4	2912.9	2920.4	2881.2	2880.3	2848.1	2786.6	2713.8	2653.9	2586.0	2501.3
55°	3277.5	3341.4	3355.3	3349.8	3379.0	3378.0	3372.1	3364.7	3317.1	3221.0	3191.8
57.5°	3909.5	3981.3	4087.3	4135.4	4241.4	4253.8	4351.8	4313.7	4386.5	4366.7	4380.1
60°	4552.9	4773.4	4974.4	5127.5	5276.1	5411.3	5576.8	5647.6	5700.6	5783.3	5870.5
62.5°	4840.7	5118.6	5358.3	5576.3	5761.0	5932.4	6074.5	6209.3	6315.3	6410.4	6483.7
65°	4724.3	5046.8	5280.6	5507.9	5680.3	5839.8	5980.9	6082.0	6187.5	6273.7	6351.4
67.5°	3933.3	4362.7	4667.8	4925.9	5142.4	5324.1	5470.8	5609.9	5684.7	5778.8	5820.9
70°	2605.4	3156.1	3587.6	3936.3	4279.5	4485.6	4659.4	4821.4	4906.6	4982.9	5029.9
72.5°	1431.0	1807.4	2268.0	2682.6	3012.5	3282.9	3485.5	3639.1	3726.7	3792.1	3724.3
75°	810.8	996.6	1221.9	1451.3	1701.4	1892.1	1945.6	2011.0	2026.3	1992.7	1905.5
77.5°	745.4	745.4	745.9	740.5	751.4	764.8	756.8	743.5	683.0	669.7	650.8
80°	969.3	863.8	750.9	616.7	502.7	424.0	399.7	401.7	421.0	458.7	500.3
82.5°	1374.0	1270.0	1107.0	902.5	718.2	563.7	462.1	415.6	415.1	452.7	506.7
85°	1002.0	1010.4	974.3	861.8	687.5	541.4	437.4	335.8	303.1	303.1	299.2
87.5°	175.3	180.8	156.0	139.7	97.6	68.8	61.9	54.5	54.0	56.0	51.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
2.5°	700.4	699.4	698.4	697.9	697.9	696.9	696.9	695.9	696.4	695.9	694.4
5°	723.2	722.7	721.2	718.7	718.2	716.2	716.7	714.7	714.7	713.7	711.3
7.5°	751.9	750.9	749.9	747.9	745.9	745.9	742.5	742.5	740.0	739.0	737.0
10°	786.1	783.1	781.6	779.6	779.1	778.6	775.2	775.2	772.2	771.7	770.2
12.5°	819.7	817.8	816.3	815.3	812.8	812.3	810.8	809.3	807.9	806.9	806.4
15°	856.4	855.4	853.9	853.9	853.9	851.4	850.0	849.0	849.0	847.5	848.5
17.5°	903.9	905.4	903.5	902.5	901.0	903.5	901.0	901.0	902.5	902.5	899.0
20°	962.9	964.9	962.9	963.4	962.4	962.9	963.4	964.4	966.4	962.9	963.4
22.5°	1028.3	1028.8	1030.3	1028.8	1031.2	1029.8	1032.7	1035.2	1034.7	1033.7	1034.2
25°	1099.6	1098.1	1098.6	1103.1	1106.5	1105.5	1106.0	1110.0	1109.0	1108.0	1108.5
27.5°	1171.9	1170.9	1172.4	1176.4	1180.3	1179.8	1178.8	1181.8	1181.8	1179.3	1180.3
30°	1243.7	1245.2	1247.7	1247.7	1249.7	1251.7	1250.2	1253.6	1254.1	1252.2	1254.6
32.5°	1319.5	1322.5	1321.5	1328.4	1328.4	1328.9	1330.4	1329.9	1334.9	1330.9	1332.4
35°	1410.7	1411.6	1417.6	1422.5	1425.5	1428.0	1428.0	1429.5	1432.0	1430.0	1432.9
37.5°	1466.1	1468.1	1470.1	1473.1	1473.1	1473.1	1475.5	1476.0	1477.5	1477.0	1478.0
40°	1527.1	1527.6	1528.0	1528.5	1530.5	1531.5	1529.0	1532.5	1530.0	1531.0	1532.5
42.5°	1600.9	1593.9	1594.9	1593.4	1596.9	1592.4	1593.4	1597.4	1595.4	1598.4	1598.4
45°	1686.5	1678.6	1671.7	1667.7	1667.7	1661.8	1662.8	1664.3	1666.7	1670.7	1677.6
47.5°	1813.3	1786.1	1772.7	1758.9	1751.9	1744.5	1747.0	1747.5	1748.5	1754.9	1772.2
50°	2020.9	1975.3	1940.1	1898.0	1882.2	1869.3	1861.9	1862.4	1862.4	1875.8	1893.1
52.5°	2422.1	2337.4	2253.7	2180.4	2117.5	2087.3	2052.1	2043.2	2043.7	2055.1	2066.9
55°	3115.0	2998.6	2910.0	2747.0	2697.5	2558.3	2485.0	2442.9	2410.2	2426.1	2443.4
57.5°	4358.3	4250.8	4180.5	3985.8	3808.5	3758.0	3637.6	3540.0	3499.9	3453.3	3456.3
60°	5883.4	5827.9	5810.0	5696.1	5632.2	5433.6	5417.8	5294.4	5178.0	5077.5	5118.6
62.5°	6540.1	6565.9	6586.7	6626.8	6642.2	6623.4	6543.6	6489.1	6393.5	6261.8	6181.0
65°	6374.2	6433.2	6521.8	6605.5	6705.6	6788.8	6829.9	6814.0	6727.9	6592.1	6422.7
67.5°	5851.2	5911.1	5987.4	6093.4	6246.4	6408.4	6521.3	6593.1	6524.8	6402.4	6230.1
70°	5027.4	5085.9	5088.4	5236.5	5401.4	5605.5	5805.6	5880.9	5803.1	5721.4	5577.2
72.5°	3765.4	3730.2	3762.9	3790.2	3884.3	4013.0	4207.2	4198.8	4079.9	4016.5	3795.1
75°	1769.8	1746.0	1711.3	1688.5	1666.7	1621.2	1643.0	1549.8	1517.6	1530.5	1339.3
77.5°	636.5	603.8	551.3	500.3	435.9	361.1	304.6	267.5	249.1	249.6	238.2
80°	533.9	549.8	542.4	491.8	419.5	341.3	255.6	193.7	165.4	153.5	146.1
82.5°	579.0	658.8	698.4	667.2	563.7	433.9	279.4	168.9	123.8	106.0	101.5
85°	321.0	321.5	311.6	297.7	264.0	181.3	120.9	80.2	64.4	57.5	55.5
87.5°	54.5	52.0	52.0	48.5	42.6	41.6	37.1	35.2	31.2	28.7	27.7
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
2.5°	692.9	692.0	691.5	691.0	691.0	690.5	690.5	689.5	688.5	688.0	687.5
5°	708.8	707.8	706.8	705.8	705.8	704.8	703.8	702.9	701.4	698.9	698.4
7.5°	735.5	733.6	733.6	730.1	730.1	728.1	726.6	726.6	724.6	720.7	720.2
10°	768.7	765.3	763.8	761.8	760.8	758.8	758.8	756.8	755.9	754.4	749.4
12.5°	804.4	801.9	800.9	798.4	797.0	797.0	796.0	792.5	795.0	791.5	789.0
15°	847.5	847.0	842.5	844.0	843.5	843.0	843.5	840.5	840.1	840.1	837.1
17.5°	901.5	897.5	898.0	898.0	899.0	899.0	895.0	897.0	897.5	896.5	895.5
20°	964.9	963.4	964.9	961.9	964.9	964.9	966.9	966.4	966.9	967.8	967.8
22.5°	1032.7	1036.7	1037.2	1038.2	1034.7	1040.7	1040.7	1041.6	1044.1	1044.1	1045.1
25°	1115.0	1113.0	1110.5	1114.0	1115.0	1118.9	1119.9	1119.9	1123.9	1123.9	1125.4
27.5°	1183.3	1185.3	1184.8	1186.8	1185.8	1191.2	1193.2	1199.2	1197.7	1200.6	1204.6
30°	1253.6	1257.6	1255.6	1256.1	1258.6	1262.1	1266.0	1272.0	1273.0	1280.9	1282.9
32.5°	1334.9	1337.8	1340.3	1341.3	1341.3	1347.3	1353.7	1355.7	1366.1	1372.0	1379.0
35°	1437.9	1438.4	1439.9	1441.4	1440.4	1446.8	1453.3	1455.2	1466.1	1467.6	1482.0
37.5°	1481.5	1482.5	1488.4	1491.4	1493.4	1501.3	1513.2	1522.1	1534.0	1545.4	1561.7
40°	1536.0	1541.9	1547.4	1551.8	1559.3	1570.1	1588.5	1597.4	1615.2	1636.5	1652.4
42.5°	1604.8	1615.7	1619.7	1628.1	1646.4	1659.8	1678.1	1697.4	1721.2	1747.0	1765.8
45°	1686.5	1696.9	1711.8	1721.2	1742.5	1763.8	1793.0	1809.9	1834.2	1863.9	1884.7
47.5°	1785.6	1800.0	1814.8	1834.2	1859.4	1881.7	1910.9	1932.7	1957.0	1981.3	2004.0
50°	1908.9	1930.2	1950.1	1970.4	2004.0	2022.9	2051.6	2074.4	2097.2	2121.4	2142.2
52.5°	2074.9	2107.1	2132.3	2146.2	2191.8	2210.6	2245.8	2261.6	2280.4	2302.2	2329.0
55°	2436.9	2487.0	2529.6	2554.3	2623.7	2648.4	2694.0	2717.3	2704.4	2732.2	2780.2
57.5°	3484.0	3545.5	3596.5	3630.2	3701.0	3735.7	3738.1	3825.3	3773.8	3824.8	3832.3
60°	5009.1	5057.7	5045.3	5045.8	5023.5	4991.3	5053.2	4959.1	4998.7	5001.2	4912.5
62.5°	6031.9	5957.6	5923.0	5865.5	5798.7	5747.1	5712.0	5636.2	5575.8	5527.7	5434.1
65°	6272.7	6143.9	6030.0	5922.5	5823.9	5755.6	5681.3	5600.0	5505.4	5425.7	5334.5
67.5°	6039.9	5859.6	5690.7	5549.0	5414.3	5324.1	5216.7	5139.4	5020.5	4915.5	4846.2
70°	5364.8	5115.1	4918.0	4827.3	4693.6	4499.9	4397.4	4300.8	4228.0	4132.9	4090.8
72.5°	3763.4	3455.3	3303.3	3309.2	3173.5	3034.8	3038.3	2979.3	2885.2	2882.2	2867.9
75°	1382.9	1258.1	1170.4	1174.4	1123.9	1069.9	1084.7	1100.6	1069.9	1132.3	1035.7
77.5°	219.9	214.0	212.0	207.5	196.6	204.6	199.1	209.5	211.0	222.4	223.4
80°	140.2	134.2	132.7	130.3	129.8	129.8	128.8	128.8	128.8	129.3	128.3
82.5°	93.6	90.1	89.7	88.2	90.6	91.1	91.6	95.6	99.1	100.1	104.0
85°	51.0	48.5	48.5	47.6	49.5	50.0	54.5	59.9	66.9	69.8	76.3
87.5°	25.8	27.2	26.7	27.7	29.2	32.7	36.2	39.6	43.6	49.0	53.5
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0
2.5°	686.5	686.0	686.0	685.0	685.0	684.5	683.5	682.5	678.1	672.6	669.2
5°	696.9	695.9	695.4	694.4	692.9	692.9	691.5	689.5	681.1	672.1	666.7
7.5°	718.2	717.7	716.2	714.2	712.3	710.3	709.3	708.3	695.4	687.0	683.0
10°	748.9	748.4	745.0	744.5	741.5	742.0	739.5	737.5	729.1	719.7	714.2
12.5°	788.0	790.0	788.0	783.6	784.6	783.1	780.6	778.1	770.7	763.3	754.9
15°	836.6	834.1	832.1	836.1	832.6	832.1	833.6	834.1	825.2	817.3	805.4
17.5°	897.0	897.0	896.0	897.0	895.0	896.5	895.5	896.5	892.6	881.7	864.3
20°	965.9	969.8	969.8	968.3	967.8	970.8	972.3	966.9	967.8	958.4	927.2
22.5°	1046.1	1049.1	1050.1	1048.6	1049.1	1053.0	1055.5	1051.6	1060.5	1045.1	997.1
25°	1128.8	1133.3	1131.3	1131.8	1135.8	1140.2	1144.7	1140.7	1158.0	1134.3	1071.4
27.5°	1210.5	1214.5	1213.5	1216.5	1222.9	1228.9	1233.8	1232.3	1261.1	1229.9	1149.6
30°	1287.8	1297.2	1299.2	1302.7	1310.6	1320.5	1328.4	1327.9	1365.1	1323.0	1213.5
32.5°	1382.9	1393.3	1397.3	1404.7	1420.1	1427.0	1436.9	1437.9	1475.0	1404.7	1267.5
35°	1492.9	1503.3	1511.7	1517.1	1534.5	1542.9	1552.8	1557.3	1582.0	1481.0	1305.2
37.5°	1578.1	1587.0	1603.3	1614.7	1630.1	1646.9	1658.3	1663.8	1677.6	1546.4	1322.5
40°	1671.2	1690.5	1706.4	1723.7	1740.5	1753.9	1764.3	1772.7	1767.3	1600.9	1315.1
42.5°	1789.1	1809.4	1830.7	1845.5	1854.5	1872.3	1877.2	1883.2	1838.6	1625.6	1281.4
45°	1911.9	1928.3	1946.1	1957.0	1968.9	1977.8	1979.3	1979.8	1891.6	1611.3	1220.5
47.5°	2030.3	2044.2	2056.5	2062.5	2068.4	2068.9	2066.5	2062.5	1919.8	1562.7	1147.1
50°	2160.1	2168.5	2173.9	2174.4	2179.9	2169.5	2162.5	2144.2	1916.9	1488.4	1069.9
52.5°	2346.8	2344.8	2337.9	2337.4	2320.1	2300.2	2287.4	2261.1	1896.6	1408.2	980.7
55°	2775.7	2756.9	2778.7	2723.2	2677.2	2646.5	2573.7	2520.7	1916.9	1333.4	878.2
57.5°	3806.5	3742.1	3749.0	3659.4	3561.3	3377.6	3269.1	3122.5	2076.4	1291.8	748.9
60°	4893.7	4787.7	4687.7	4528.7	4320.1	4086.8	3876.8	3647.5	2234.9	1240.8	611.2
62.5°	5342.5	5205.8	5031.9	4807.5	4539.6	4250.3	3960.0	3698.5	2147.7	1087.2	440.3
65°	5197.8	5034.4	4849.1	4556.4	4252.3	3916.0	3598.0	3321.6	1788.6	795.0	266.0
67.5°	4684.2	4543.5	4315.2	4038.8	3662.4	3325.0	3010.5	2754.9	1318.5	491.4	152.6
70°	3944.2	3749.5	3554.4	3288.9	2892.1	2574.2	2281.4	2055.6	836.6	242.7	112.4
72.5°	2722.3	2568.2	2412.2	2174.4	1878.2	1659.3	1407.7	1221.9	437.9	130.8	103.5
75°	1060.5	1043.6	1025.8	917.8	817.3	654.8	575.1	518.6	182.3	113.4	102.0
77.5°	232.8	246.7	254.6	241.2	229.8	205.1	196.1	175.3	121.8	116.4	101.0
80°	128.3	128.3	128.3	129.8	127.3	127.3	125.8	123.3	113.9	116.4	99.1
82.5°	105.0	106.5	108.5	109.0	108.5	109.0	108.0	107.5	111.4	116.9	94.1
85°	80.2	85.2	88.2	92.1	96.1	98.6	99.6	100.1	102.5	111.0	82.2
87.5°	57.0	60.9	67.4	68.4	72.8	78.3	80.2	83.2	81.7	84.2	38.6
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):

	145°	155°	165°	175°	180°
0°	688.0	688.0	688.0	688.0	688.0
2.5°	666.2	662.2	660.8	660.3	659.3
5°	662.2	659.8	657.8	656.3	657.3
7.5°	680.1	678.6	675.1	674.1	675.6
10°	711.8	708.3	703.3	703.8	703.3
12.5°	751.4	742.0	734.1	730.6	728.1
15°	792.0	773.7	757.3	749.9	746.9
17.5°	837.1	805.9	780.6	767.2	764.8
20°	884.6	841.5	808.8	793.0	790.5
22.5°	939.6	880.2	838.6	816.8	813.3
25°	993.1	914.8	859.4	832.6	828.2
27.5°	1041.6	941.1	871.8	840.1	835.6
30°	1082.3	961.9	882.2	846.0	841.0
32.5°	1109.0	973.3	885.6	846.5	840.5
35°	1117.4	965.9	870.8	825.7	820.7
37.5°	1099.6	935.6	831.1	780.1	776.2
40°	1059.0	879.7	768.7	715.7	710.8
42.5°	995.6	808.8	696.4	640.4	636.0
45°	925.2	733.1	619.6	563.7	559.2
47.5°	848.5	652.8	538.9	487.4	480.5
50°	764.3	565.6	456.7	406.2	399.7
52.5°	665.7	470.5	369.5	323.9	320.0
55°	550.3	375.0	294.2	261.0	257.1
57.5°	428.0	285.3	233.8	217.4	211.0
60°	310.6	216.9	186.2	178.3	174.8
62.5°	211.0	162.0	150.1	147.6	145.1
65°	143.1	126.8	123.3	123.8	122.3
67.5°	112.9	106.5	104.5	105.5	105.0
70°	99.1	94.1	93.6	94.6	94.1
72.5°	93.6	87.2	88.2	89.7	89.2
75°	91.1	84.2	86.2	87.2	84.7
77.5°	88.7	79.7	85.7	87.7	82.7
80°	85.2	75.8	89.7	88.7	79.3
82.5°	77.8	66.9	87.7	80.2	71.3
85°	63.4	50.0	98.6	70.8	52.0
87.5°	40.6	30.2	68.4	54.0	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)