

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: P145144

Luminaire Tested: **LDRL-SL3-F03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145144
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL3-F03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6715.1 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

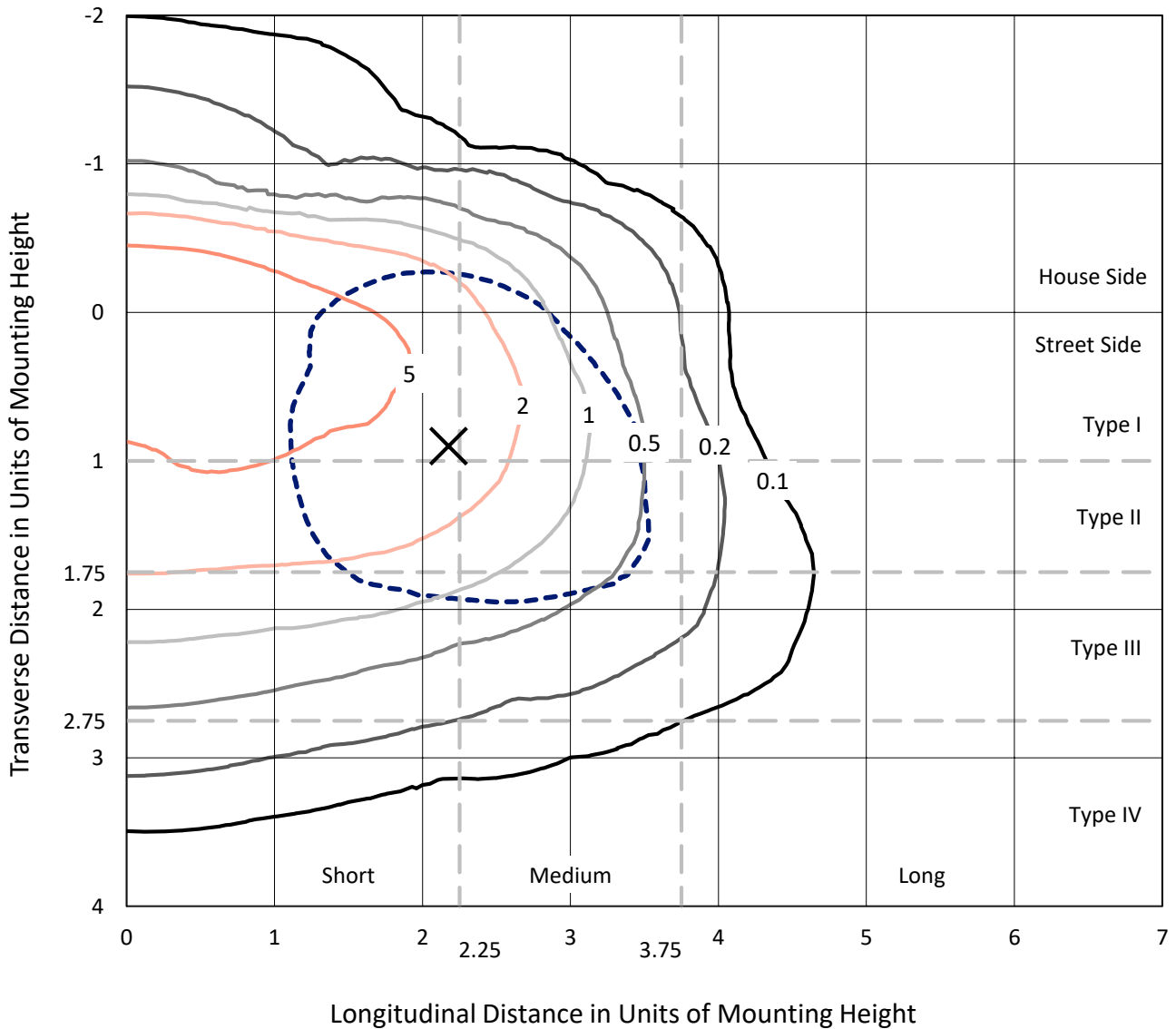
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

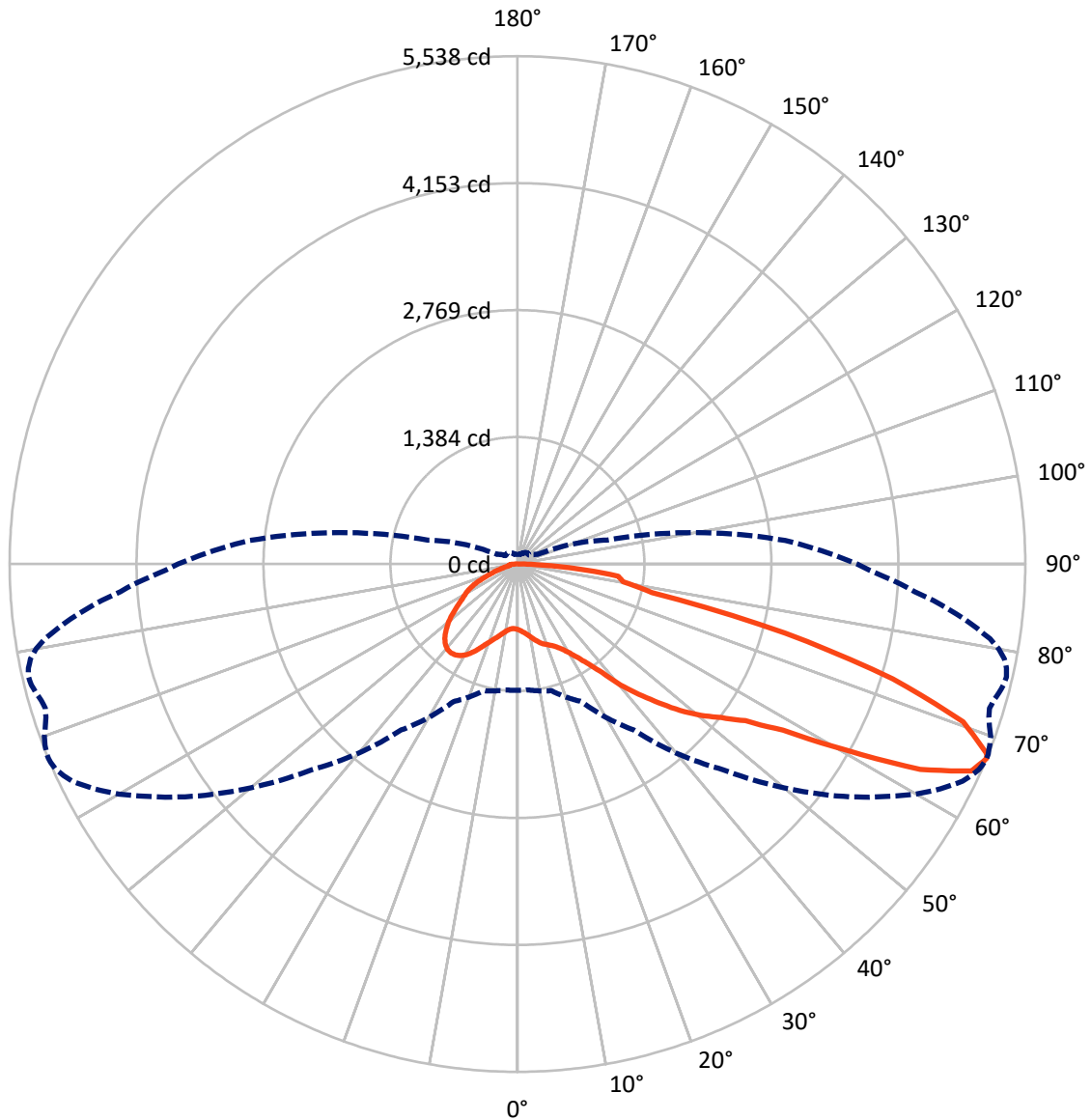
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1590.1	0.0	1590.1
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	5125.0	0.0	5125.0
	% Fixture	76.3	0.0	76.3
Total	Lumens	6715.1	0.0	6715.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.1
10°-20°	244.1	3.6
20°-30°	434.6	6.5
30°-40°	633.1	9.4
40°-50°	975.5	14.5
50°-60°	1428.6	21.3
60°-70°	1897.0	28.2
70°-80°	894.2	13.3
80°-90°	136.7	2.0
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°	6715.1	100.0
0°-180°	6715.1	100.0



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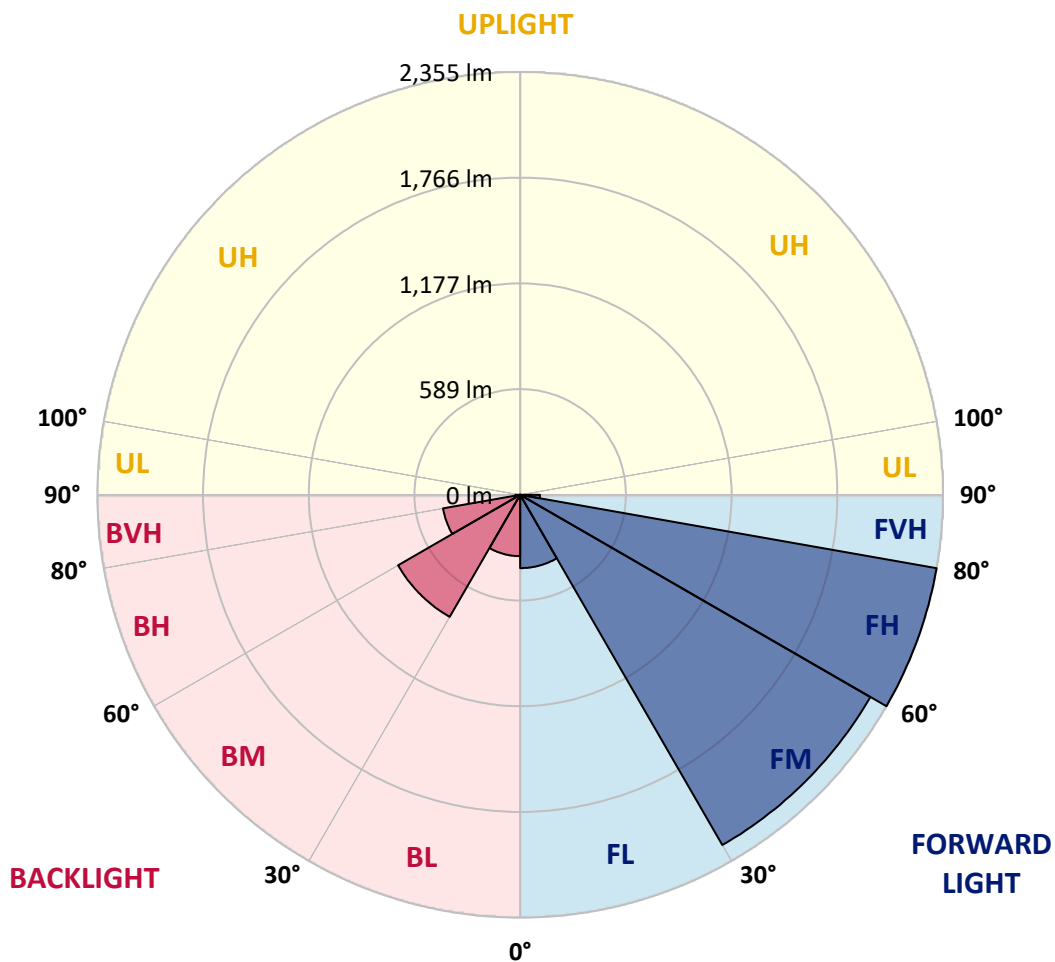
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.2	6.1			
FM	(30°-60°)	2251.9	33.5			
FH	(60°-80°)	2354.7	35.1			G2/5000
FVH	(80°-90°)	110.2	1.6			G2/225
BL	(0°-30°)	341.8	5.1	B1/500		
BM	(30°-60°)	785.2	11.7	B1/1000		
BH	(60°-80°)	436.5	6.5	B1/500		G1/500
BVH	(80°-90°)	26.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3
2.5°	750.1	746.9	747.4	748.7	744.2	741.9	737.0	733.8	733.3	732.9	731.1
5°	794.0	790.8	792.1	788.5	779.9	774.0	763.6	758.2	757.3	756.4	754.1
7.5°	839.6	835.6	831.1	827.0	817.5	808.0	794.4	786.3	785.4	784.0	782.6
10°	893.9	888.1	884.4	871.8	855.5	842.4	828.8	820.2	819.7	818.4	815.7
12.5°	955.0	948.7	941.9	925.1	899.8	880.4	864.5	859.6	855.5	855.9	853.2
15°	1015.6	1008.8	999.8	978.5	945.1	916.1	895.7	888.5	889.0	886.7	888.1
17.5°	1066.7	1060.9	1047.7	1020.6	981.7	941.9	916.1	912.9	913.8	913.4	914.7
20°	1100.2	1096.6	1076.7	1044.1	1000.2	956.4	930.1	930.1	930.6	932.4	935.6
22.5°	1120.6	1115.2	1088.9	1043.2	999.8	963.2	942.8	947.3	950.0	951.4	956.4
25°	1131.9	1125.1	1089.4	1028.7	984.4	968.1	961.8	973.1	977.6	979.9	988.0
27.5°	1131.9	1123.8	1083.5	1010.7	966.8	983.1	998.0	1017.4	1020.6	1027.4	1036.9
30°	1119.2	1112.9	1074.4	997.1	962.2	1011.1	1056.3	1078.5	1086.2	1093.9	1106.1
32.5°	1105.7	1100.2	1069.9	1004.3	987.6	1069.9	1145.5	1175.8	1180.3	1186.6	1199.3
35°	1104.8	1102.9	1089.8	1050.5	1064.0	1177.6	1279.8	1300.6	1313.3	1316.5	1321.9
37.5°	1114.3	1117.9	1129.2	1125.1	1174.0	1337.7	1455.8	1497.4	1507.4	1502.0	1506.9
40°	1136.4	1145.5	1187.5	1239.6	1341.8	1531.4	1695.6	1743.5	1754.4	1751.2	1749.9
42.5°	1206.5	1218.8	1280.7	1392.0	1516.4	1731.8	1918.2	1969.7	1973.4	1975.2	1963.4
45°	1316.5	1323.3	1405.6	1547.6	1705.5	1947.6	2140.3	2197.7	2195.5	2186.4	2177.8
47.5°	1441.3	1455.4	1554.0	1725.9	1901.0	2147.1	2365.1	2421.2	2426.2	2418.1	2402.2
50°	1554.9	1565.7	1677.0	1881.1	2073.3	2313.1	2554.7	2611.2	2610.3	2614.8	2619.4
52.5°	1644.5	1654.4	1760.3	1984.7	2200.0	2452.4	2697.6	2767.3	2778.2	2785.4	2794.5
55°	1690.6	1701.0	1798.7	2027.6	2276.9	2588.6	2862.8	2962.7	2981.3	2997.6	3012.5
57.5°	1691.5	1705.1	1794.7	2024.5	2316.7	2710.3	3081.3	3260.9	3287.1	3328.7	3379.9
60°	1663.9	1682.9	1763.4	1995.1	2362.4	2864.6	3441.4	3785.2	3836.8	3909.6	3975.2
62.5°	1592.0	1611.0	1682.9	1920.4	2415.8	3062.3	3961.6	4465.6	4575.5	4656.1	4785.9
65°	1478.4	1496.5	1557.1	1796.9	2373.3	3218.3	4349.3	4953.7	5065.9	5166.8	5319.3
67°	1377.1	1378.9	1430.0	1655.3	2207.7	3169.9	4427.1	5018.9	5122.5	5224.7	5401.6
67.5°	1341.4	1351.3	1391.1	1608.3	2144.8	3134.2	4396.4	4983.6	5084.0	5193.1	5373.6
70°	1084.4	1087.1	1125.6	1283.0	1701.9	2598.6	3949.0	4533.5	4602.2	4761.9	4939.3
72.5°	661.4	656.9	669.1	785.8	1120.1	1799.6	3161.8	3732.3	3826.4	3962.5	4082.4
75°	364.2	385.9	400.8	481.8	629.3	1058.2	2153.0	2700.4	2838.3	2919.3	2943.3
77.5°	222.6	220.8	227.6	310.8	516.2	723.8	1189.3	1584.3	1661.2	1684.3	1595.1
80°	105.9	109.9	108.6	128.0	250.2	610.7	831.5	1017.4	1056.3	1078.5	1107.5
82.5°	57.9	60.2	68.3	76.5	98.6	262.8	717.5	938.3	964.5	1002.5	1045.0
85°	36.2	38.0	52.5	55.2	60.6	81.0	299.0	548.3	570.5	646.0	670.0
87.5°	14.9	16.3	28.5	25.8	30.8	28.5	90.5	139.3	147.9	157.4	174.6
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):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3
2.5°	731.5	731.1	729.3	728.8	729.7	729.7	728.8	727.5	727.0	726.5	725.6
5°	753.2	752.3	751.0	750.1	749.6	749.6	748.3	746.9	745.5	743.7	743.3
7.5°	779.0	779.0	778.6	777.2	775.9	774.0	772.7	771.3	770.0	769.1	767.7
10°	813.0	814.8	811.6	810.7	810.2	807.5	807.1	805.7	804.8	802.6	802.6
12.5°	853.2	851.4	851.0	849.1	849.1	847.8	847.3	846.9	846.0	844.2	843.7
15°	886.7	886.7	886.2	885.3	886.2	885.3	884.0	884.9	883.5	884.0	882.6
17.5°	913.8	915.6	915.2	915.6	915.2	915.2	916.1	916.1	917.0	915.2	915.6
20°	936.5	939.2	940.5	939.6	940.5	941.0	943.2	944.2	945.5	946.4	946.4
22.5°	960.0	963.6	966.3	966.3	968.1	969.9	974.0	974.9	978.1	977.6	979.9
25°	993.0	998.9	1000.7	1003.4	1005.7	1008.8	1013.8	1016.1	1017.4	1020.6	1024.2
27.5°	1043.7	1050.9	1052.3	1055.4	1061.3	1063.1	1068.6	1070.8	1075.8	1082.6	1083.9
30°	1112.9	1121.9	1122.4	1126.0	1132.8	1135.1	1139.6	1145.5	1149.5	1156.3	1156.8
32.5°	1207.0	1216.0	1214.7	1221.5	1221.0	1227.8	1226.4	1235.5	1239.1	1242.7	1252.7
35°	1332.3	1331.4	1338.2	1340.4	1339.1	1344.5	1343.6	1347.7	1351.3	1351.3	1362.2
37.5°	1512.8	1511.5	1510.6	1501.1	1498.8	1499.2	1497.4	1501.1	1495.2	1495.2	1506.9
40°	1754.8	1746.7	1740.4	1734.0	1727.7	1719.1	1711.9	1710.1	1700.1	1699.7	1695.1
42.5°	1965.2	1957.5	1953.0	1940.8	1934.4	1933.1	1915.4	1910.5	1907.8	1909.6	1905.0
45°	2186.0	2177.8	2160.6	2155.2	2153.4	2143.9	2141.2	2129.0	2125.4	2131.7	2129.4
47.5°	2413.5	2401.8	2392.3	2385.9	2383.7	2375.5	2363.8	2373.7	2368.7	2365.1	2358.3
50°	2618.0	2604.9	2604.9	2593.6	2595.4	2590.0	2577.8	2580.5	2566.4	2571.9	2568.3
52.5°	2789.5	2790.4	2794.9	2782.2	2784.5	2784.5	2780.4	2767.3	2770.9	2769.1	2777.7
55°	3007.5	3022.5	3014.3	3016.6	3019.3	3032.0	3041.0	3033.3	3020.6	3030.6	3058.2
57.5°	3388.9	3402.5	3410.6	3416.9	3427.4	3433.2	3482.1	3488.9	3474.4	3504.3	3565.8
60°	4052.1	4068.4	4092.8	4124.9	4131.7	4172.9	4198.2	4228.1	4239.0	4264.7	4330.8
62.5°	4849.7	4886.3	4890.9	4931.6	4963.2	4924.8	4934.7	4971.4	4929.8	4986.8	4989.5
65°	5371.8	5425.1	5426.9	5441.9	5453.6	5417.4	5401.2	5384.9	5345.5	5343.3	5382.6
67°	5461.3	5510.2	5530.5	5537.8	5536.0	5517.4	5490.7	5443.7	5405.7	5384.0	5400.3
67.5°	5436.0	5483.9	5512.4	5519.2	5519.7	5501.6	5477.2	5426.0	5390.3	5365.9	5383.1
70°	5019.8	5132.0	5180.8	5155.5	5170.0	5170.0	5169.1	5122.0	5104.4	5080.9	5071.8
72.5°	4173.8	4251.6	4313.6	4280.6	4284.6	4315.4	4308.2	4313.1	4262.5	4257.0	4173.4
75°	2989.9	3014.8	2994.0	3017.5	2890.8	2845.6	2768.7	2656.5	2627.1	2580.5	2441.1
77.5°	1588.4	1560.3	1504.7	1500.1	1448.1	1407.9	1358.1	1325.5	1243.2	1197.5	1093.0
80°	1121.9	1135.5	1156.8	1169.4	1181.2	1190.3	1171.7	1119.7	1050.9	974.0	901.2
82.5°	1071.7	1090.3	1102.9	1109.3	1104.8	1090.3	1047.7	998.0	906.1	839.6	760.9
85°	675.9	690.8	665.0	659.6	670.9	579.5	529.3	488.6	395.8	368.3	325.3
87.5°	181.4	191.4	191.8	185.9	182.3	160.6	142.1	125.8	104.1	97.7	79.2
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3
2.5°	725.6	725.2	725.2	723.8	722.9	722.5	722.0	720.7	719.8	719.8	719.3
5°	742.8	741.9	740.6	740.1	738.3	737.4	735.6	734.7	733.3	732.4	732.0
7.5°	767.3	765.0	762.3	762.7	760.0	758.7	757.8	756.0	754.6	753.2	752.8
10°	799.8	799.4	796.7	797.6	792.6	794.9	790.3	790.8	788.1	785.4	784.9
12.5°	841.5	841.0	838.3	835.1	834.2	834.7	832.0	832.4	829.2	828.3	827.4
15°	881.3	880.4	879.0	876.7	875.4	874.9	874.0	873.1	870.4	870.4	867.2
17.5°	915.6	916.1	914.3	912.5	911.6	910.2	909.8	909.8	907.5	905.2	905.7
20°	946.0	946.9	946.9	945.5	946.0	945.1	944.6	945.5	943.2	942.3	941.0
22.5°	979.9	979.9	980.3	981.2	982.6	983.1	983.1	982.2	980.8	980.3	977.6
25°	1026.9	1025.1	1027.4	1028.3	1028.3	1030.6	1029.7	1030.1	1030.6	1029.2	1027.8
27.5°	1086.2	1084.4	1088.9	1092.1	1091.6	1093.0	1095.7	1092.5	1094.3	1095.7	1092.5
30°	1159.0	1163.6	1166.7	1169.0	1168.1	1172.2	1173.5	1173.1	1171.7	1174.0	1174.0
32.5°	1251.8	1249.5	1257.7	1262.6	1263.1	1262.2	1264.4	1267.2	1264.9	1268.5	1266.7
35°	1362.2	1363.5	1365.3	1370.8	1373.0	1369.4	1373.0	1376.2	1375.3	1375.7	1377.5
37.5°	1504.7	1506.9	1505.1	1505.6	1504.7	1521.9	1524.6	1527.3	1524.1	1521.4	1529.6
40°	1702.4	1702.4	1701.9	1707.8	1697.8	1708.7	1705.5	1713.2	1721.4	1716.8	1729.1
42.5°	1896.9	1907.8	1908.7	1900.1	1907.3	1919.1	1919.1	1924.0	1931.3	1924.0	1935.8
45°	2119.9	2133.5	2131.2	2145.7	2134.9	2148.4	2150.7	2144.4	2160.2	2162.0	2157.5
47.5°	2363.3	2366.0	2366.5	2371.5	2373.7	2384.6	2384.1	2395.9	2392.3	2374.2	2380.5
50°	2571.9	2578.7	2582.3	2585.4	2596.8	2604.4	2614.8	2616.7	2613.9	2608.5	2603.5
52.5°	2780.4	2796.7	2807.1	2835.2	2852.8	2866.8	2884.0	2890.4	2887.2	2885.8	2865.9
55°	3059.6	3098.5	3158.6	3197.5	3240.1	3264.9	3284.8	3294.8	3287.6	3291.2	3250.0
57.5°	3585.2	3676.6	3729.1	3795.6	3870.7	3901.9	3910.5	3945.8	3906.9	3868.0	3836.8
60°	4366.5	4450.7	4546.1	4614.4	4639.8	4726.2	4685.5	4639.8	4598.2	4517.6	4426.7
62.5°	5071.8	5180.4	5229.2	5293.0	5275.8	5268.6	5241.5	5168.6	5079.5	4959.6	4838.4
65°	5419.7	5480.8	5511.1	5531.9	5512.4	5462.2	5372.7	5265.0	5137.4	4982.2	4823.0
67°	5433.7	5461.8	5471.7	5451.8	5408.4	5330.1	5217.0	5064.6	4907.6	4729.8	4550.7
67.5°	5410.7	5429.2	5434.2	5403.0	5351.4	5266.8	5146.0	4983.1	4816.2	4631.6	4451.6
70°	5095.8	5082.2	5038.3	4995.4	4834.3	4720.8	4510.4	4336.7	4105.0	3935.4	3743.1
72.5°	4139.9	4077.9	4035.4	3845.4	3650.8	3538.2	3312.0	3104.3	2893.1	2731.6	2613.5
75°	2324.0	2278.7	2160.6	2060.2	1899.6	1752.6	1647.2	1515.1	1388.4	1313.3	1258.1
77.5°	1050.0	920.6	831.5	718.9	580.9	466.9	346.5	320.3	273.2	261.5	235.7
80°	819.3	726.5	609.8	480.9	339.3	228.0	167.4	142.1	133.5	128.0	125.3
82.5°	683.6	563.2	474.1	336.6	215.3	144.8	109.0	98.6	92.3	87.8	83.7
85°	292.2	231.2	190.5	136.2	96.8	76.5	67.0	61.1	55.2	50.2	47.0
87.5°	68.3	52.5	48.0	40.7	38.5	38.0	37.5	35.7	33.5	30.8	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):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3	714.3
2.5°	718.9	718.4	717.5	716.1	716.1	714.3	708.5	704.4	699.9	697.1	694.4
5°	731.1	730.6	728.4	727.0	726.1	722.5	712.5	704.8	696.7	690.8	686.3
7.5°	751.4	750.1	748.3	747.4	744.6	740.1	725.6	714.8	703.0	693.5	685.8
10°	784.5	782.2	779.5	776.8	777.7	770.4	753.7	737.9	720.7	705.7	695.3
12.5°	824.7	824.7	823.4	821.6	818.4	810.2	787.6	769.1	748.3	729.7	722.0
15°	867.2	865.0	862.7	860.0	859.6	848.7	828.3	807.1	785.4	769.5	760.5
17.5°	902.1	903.0	899.8	898.9	898.0	887.1	865.4	846.4	830.6	813.9	799.4
20°	939.2	937.4	936.5	935.1	934.7	925.6	908.4	896.6	882.6	857.3	819.3
22.5°	979.0	976.7	977.6	974.9	974.5	968.1	955.5	951.8	931.0	877.6	811.6
25°	1030.6	1026.5	1027.8	1027.8	1028.3	1022.4	1021.1	1014.7	962.2	872.7	780.8
27.5°	1092.1	1093.9	1093.9	1093.4	1090.3	1092.1	1098.4	1076.7	973.1	846.4	734.7
30°	1172.2	1173.1	1174.0	1177.1	1170.3	1182.1	1189.8	1120.6	965.0	810.2	676.8
32.5°	1269.4	1265.8	1267.6	1269.4	1271.7	1283.9	1279.4	1142.8	941.0	760.9	604.9
35°	1376.6	1383.4	1385.2	1389.3	1393.8	1412.4	1360.4	1147.3	904.3	694.9	513.0
37.5°	1536.3	1547.2	1547.2	1561.7	1553.1	1575.7	1432.7	1136.4	848.7	603.0	409.4
40°	1737.7	1742.6	1747.6	1749.4	1744.9	1742.2	1480.2	1109.7	770.4	487.7	299.5
42.5°	1943.0	1941.2	1941.7	1944.9	1932.6	1881.5	1509.6	1063.1	673.2	364.2	214.9
45°	2164.3	2156.6	2154.3	2148.0	2137.1	2029.4	1526.4	997.5	545.1	256.1	168.7
47.5°	2379.6	2370.1	2355.6	2338.0	2317.2	2148.4	1524.6	912.5	418.0	183.2	148.8
50°	2600.4	2583.6	2552.4	2535.2	2499.9	2266.5	1514.2	817.9	300.8	151.6	139.3
52.5°	2852.8	2823.0	2794.0	2759.6	2701.3	2411.7	1498.3	711.6	219.4	138.9	133.0
55°	3229.2	3180.3	3132.8	3061.4	3004.8	2606.3	1471.6	597.2	173.3	133.9	129.4
57.5°	3748.1	3664.9	3604.7	3508.3	3417.9	2875.4	1443.1	493.1	154.7	132.6	127.6
60°	4332.1	4206.8	4094.6	3976.1	3873.0	3211.6	1428.2	411.7	150.6	133.9	128.0
62.5°	4698.6	4550.7	4410.4	4265.6	4117.3	3372.2	1363.5	355.6	152.5	139.8	131.6
65°	4652.4	4489.1	4336.7	4160.2	4020.4	3220.6	1198.8	300.8	155.6	150.2	141.6
67°	4341.2	4182.9	4009.1	3836.3	3700.6	2932.4	1012.0	253.3	159.2	162.0	152.5
67.5°	4258.0	4079.7	3904.6	3745.8	3598.8	2843.3	963.2	241.6	160.1	165.1	156.1
70°	3550.9	3409.7	3204.8	3087.2	2980.8	2305.0	718.4	187.7	162.9	179.1	173.3
72.5°	2484.6	2347.9	2240.7	2176.5	2114.5	1674.8	505.3	149.7	158.8	186.8	181.0
75°	1254.9	1223.7	1186.2	1165.4	1166.3	973.6	304.5	127.6	149.3	179.1	164.2
77.5°	247.9	241.6	244.3	267.4	263.3	299.9	151.1	108.1	127.1	138.0	118.1
80°	119.9	115.8	112.2	111.3	109.0	104.5	95.0	90.0	103.1	90.9	78.3
82.5°	77.8	73.3	71.5	67.9	68.3	74.2	82.8	86.4	83.7	62.9	52.9
85°	43.9	43.4	42.5	43.4	45.2	59.3	88.7	81.0	67.4	44.3	39.8
87.5°	26.2	24.9	25.3	25.8	26.7	43.9	70.1	58.4	43.0	23.1	23.5
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):

	155°	165°	175°	180°
0°	714.3	714.3	714.3	714.3
2.5°	694.0	692.2	692.2	691.7
5°	682.7	680.0	679.5	679.5
7.5°	680.9	677.2	676.8	675.4
10°	689.0	687.6	688.1	686.7
12.5°	714.8	716.6	718.4	718.4
15°	754.1	752.8	755.0	752.8
17.5°	783.1	771.3	768.6	767.3
20°	784.0	759.6	751.4	750.1
22.5°	756.0	719.8	706.2	703.9
25°	708.5	662.8	645.6	643.8
27.5°	648.7	597.6	572.3	571.4
30°	576.8	516.2	484.1	479.1
32.5°	489.0	417.1	383.2	372.3
35°	387.7	314.0	282.3	281.4
37.5°	289.5	232.1	211.7	210.8
40°	212.2	182.3	174.6	173.3
42.5°	173.3	161.1	157.9	156.5
45°	155.2	150.2	148.4	147.0
47.5°	144.3	141.1	139.8	139.8
50°	135.7	134.8	133.9	133.9
52.5°	129.8	129.4	128.5	128.0
55°	124.9	123.1	123.5	123.1
57.5°	121.7	119.0	119.0	119.0
60°	119.9	114.9	114.9	115.4
62.5°	120.3	112.6	112.2	112.2
65°	124.0	111.3	108.6	109.0
67°	128.5	109.9	104.5	104.1
67.5°	129.8	109.0	103.1	102.7
70°	135.3	106.3	96.4	95.5
72.5°	136.2	102.2	89.6	88.7
75°	126.7	96.8	84.1	81.9
77.5°	98.6	83.2	76.0	76.0
80°	69.2	63.8	54.3	53.8
82.5°	50.7	48.0	39.8	38.9
85°	37.1	34.8	29.4	29.4
87.5°	23.1	22.2	19.0	18.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)