

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: P145138

Luminaire Tested: **LDRL-SL3-E03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145138
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-E03-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7516.7 lumens
Efficiency: N/A
Efficacy: 100.0 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

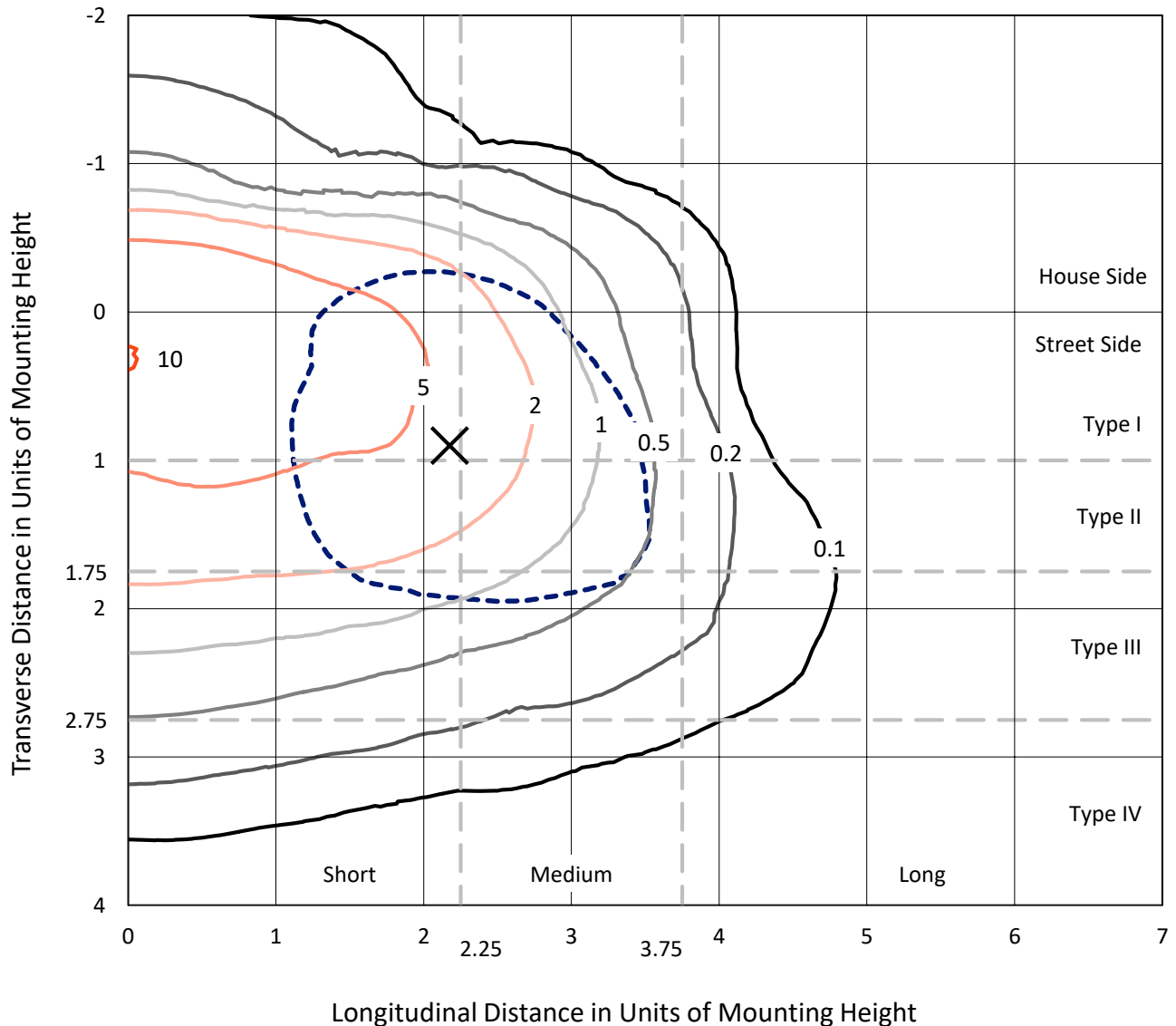
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

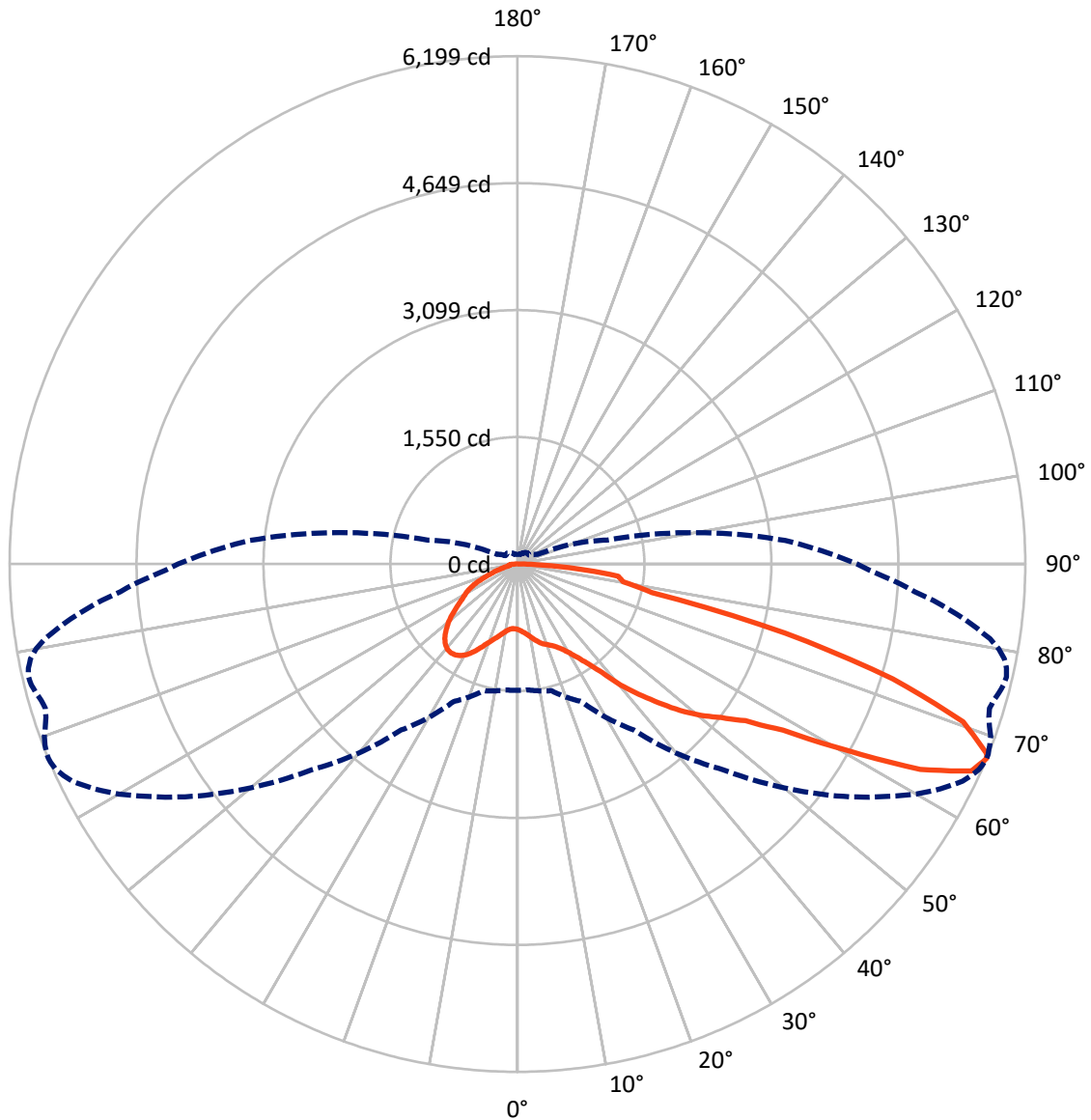
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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	1779.9	0.0	1779.9
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	5736.7	0.0	5736.7
	% Fixture	76.3	0.0	76.3
Total	Lumens	7516.7	0.0	7516.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.1
10°-20°	273.3	3.6
20°-30°	486.5	6.5
30°-40°	708.7	9.4
40°-50°	1091.9	14.5
50°-60°	1599.1	21.3
60°-70°	2123.5	28.3
70°-80°	1000.9	13.3
80°-90°	153.0	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°	7516.7	100.0
0°-180°	7516.7	100.0



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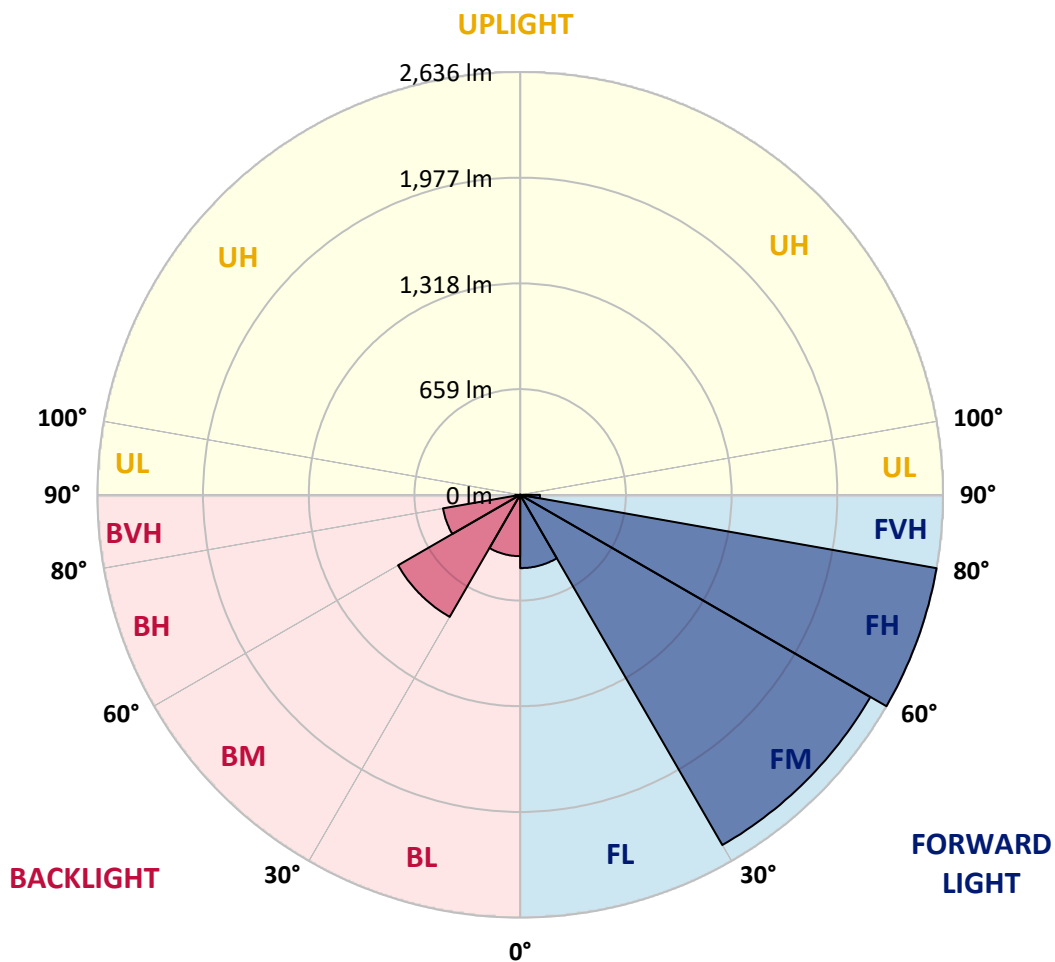
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.0	6.1			
FM	(30°-60°)	2520.7	33.5			
FH	(60°-80°)	2635.8	35.1			G2/5000
FVH	(80°-90°)	123.3	1.6			G2/225
BL	(0°-30°)	382.6	5.1	B1/500		
BM	(30°-60°)	878.9	11.7	B1/1000		
BH	(60°-80°)	488.6	6.5	B1/500		G1/500
BVH	(80°-90°)	29.7	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°	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6
2.5°	839.6	836.1	836.6	838.1	833.0	830.5	824.9	821.4	820.9	820.4	818.3
5°	888.7	885.2	886.7	882.6	873.0	866.4	854.8	848.7	847.7	846.7	844.2
7.5°	939.9	935.3	930.2	925.7	915.1	904.4	889.2	880.1	879.1	877.6	876.1
10°	1000.6	994.1	990.0	975.8	957.6	942.9	927.7	918.1	917.6	916.1	913.0
12.5°	1069.0	1061.9	1054.3	1035.6	1007.2	985.4	967.7	962.1	957.6	958.1	955.1
15°	1136.9	1129.3	1119.1	1095.3	1057.9	1025.4	1002.7	994.6	995.1	992.5	994.1
17.5°	1194.1	1187.5	1172.8	1142.4	1098.9	1054.3	1025.4	1021.9	1022.9	1022.4	1023.9
20°	1231.6	1227.5	1205.2	1168.8	1119.6	1070.5	1041.1	1041.1	1041.7	1043.7	1047.2
22.5°	1254.3	1248.3	1218.9	1167.7	1119.1	1078.1	1055.3	1060.4	1063.4	1064.9	1070.5
25°	1267.0	1259.4	1219.4	1151.5	1101.9	1083.7	1076.6	1089.3	1094.3	1096.9	1106.0
27.5°	1267.0	1257.9	1212.8	1131.3	1082.2	1100.4	1117.1	1138.9	1142.4	1150.0	1160.7
30°	1252.8	1245.7	1202.7	1116.1	1077.1	1131.8	1182.4	1207.2	1215.9	1224.5	1238.1
32.5°	1237.6	1231.6	1197.6	1124.2	1105.5	1197.6	1282.2	1316.1	1321.2	1328.3	1342.5
35°	1236.6	1234.6	1219.9	1175.8	1191.0	1318.1	1432.6	1455.9	1470.1	1473.6	1479.7
37.5°	1247.2	1251.3	1264.0	1259.4	1314.1	1497.4	1629.6	1676.2	1687.3	1681.2	1686.8
40°	1272.1	1282.2	1329.3	1387.5	1502.0	1714.1	1898.0	1951.6	1963.8	1960.3	1958.7
42.5°	1350.6	1364.2	1433.6	1558.2	1697.4	1938.5	2147.1	2204.8	2208.9	2210.9	2197.8
45°	1473.6	1481.2	1573.4	1732.4	1909.1	2180.0	2395.8	2460.1	2457.5	2447.4	2437.8
47.5°	1613.4	1629.1	1739.5	1931.9	2127.9	2403.3	2647.4	2710.2	2715.8	2706.7	2689.0
50°	1740.5	1752.6	1877.2	2105.6	2320.8	2589.2	2859.6	2922.9	2921.9	2927.0	2932.0
52.5°	1840.7	1851.9	1970.4	2221.6	2462.6	2745.2	3019.6	3097.6	3109.8	3117.9	3128.0
55°	1892.4	1904.0	2013.4	2269.7	2548.7	2897.6	3204.5	3316.4	3337.1	3355.4	3372.1
57.5°	1893.4	1908.6	2008.9	2266.1	2593.2	3033.8	3449.1	3650.1	3679.5	3726.1	3783.3
60°	1862.5	1883.8	1973.9	2233.2	2644.4	3206.5	3852.1	4237.0	4294.7	4376.3	4449.7
62.5°	1782.0	1803.3	1883.8	2149.6	2704.1	3427.8	4434.5	4998.6	5121.7	5211.8	5357.1
65°	1654.9	1675.2	1743.0	2011.4	2656.5	3602.5	4868.5	5545.0	5670.6	5783.5	5954.2
67°	1541.5	1543.5	1600.7	1852.9	2471.2	3548.3	4955.6	5617.9	5733.9	5848.4	6046.4
67.5°	1501.5	1512.6	1557.2	1800.2	2400.8	3508.3	4921.1	5578.4	5690.9	5812.9	6015.0
70°	1213.8	1216.9	1259.9	1436.1	1905.1	2908.7	4420.3	5074.6	5151.6	5330.3	5528.8
72.5°	740.3	735.3	749.0	879.6	1253.8	2014.4	3539.2	4177.8	4283.1	4435.5	4569.7
75°	407.6	432.0	448.7	539.3	704.4	1184.5	2409.9	3022.7	3177.1	3267.8	3294.6
77.5°	249.1	247.1	254.7	347.9	577.8	810.2	1331.3	1773.4	1859.5	1885.3	1785.5
80°	118.5	123.1	121.5	143.3	280.0	683.6	930.8	1138.9	1182.4	1207.2	1239.7
82.5°	64.8	67.4	76.5	85.6	110.4	294.2	803.1	1050.3	1079.6	1122.2	1169.8
85°	40.5	42.5	58.7	61.8	67.9	90.6	334.7	613.8	638.6	723.1	750.0
87.5°	16.7	18.2	31.9	28.9	34.4	31.9	101.3	156.0	165.6	176.2	195.5
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):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6
2.5°	818.8	818.3	816.3	815.8	816.8	816.8	815.8	814.3	813.8	813.3	812.3
5°	843.1	842.1	840.6	839.6	839.1	839.1	837.6	836.1	834.5	832.5	832.0
7.5°	872.0	872.0	871.5	870.0	868.5	866.4	864.9	863.4	861.9	860.9	859.4
10°	910.0	912.0	908.5	907.5	907.0	903.9	903.4	901.9	900.9	898.3	898.3
12.5°	955.1	953.0	952.5	950.5	950.5	949.0	948.5	948.0	947.0	944.9	944.4
15°	992.5	992.5	992.0	991.0	992.0	991.0	989.5	990.5	989.0	989.5	988.0
17.5°	1022.9	1024.9	1024.4	1024.9	1024.4	1024.4	1025.4	1025.4	1026.5	1024.4	1024.9
20°	1048.2	1051.3	1052.8	1051.8	1052.8	1053.3	1055.8	1056.8	1058.4	1059.4	1059.4
22.5°	1074.6	1078.6	1081.7	1081.7	1083.7	1085.7	1090.3	1091.3	1094.8	1094.3	1096.9
25°	1111.5	1118.1	1120.1	1123.2	1125.7	1129.3	1134.8	1137.4	1138.9	1142.4	1146.5
27.5°	1168.3	1176.4	1177.9	1181.4	1188.0	1190.0	1196.1	1198.6	1204.2	1211.8	1213.3
30°	1245.7	1255.9	1256.4	1260.4	1268.0	1270.5	1275.6	1282.2	1286.7	1294.3	1294.9
32.5°	1351.1	1361.2	1359.7	1367.3	1366.8	1374.4	1372.8	1383.0	1387.0	1391.1	1402.2
35°	1491.3	1490.3	1497.9	1500.4	1498.9	1505.0	1504.0	1508.5	1512.6	1512.6	1524.8
37.5°	1693.4	1691.9	1690.9	1680.2	1677.7	1678.2	1676.2	1680.2	1673.6	1673.6	1686.8
40°	1964.3	1955.2	1948.1	1941.0	1933.9	1924.3	1916.2	1914.2	1903.0	1902.5	1897.5
42.5°	2199.8	2191.2	2186.1	2172.4	2165.3	2163.8	2144.1	2138.5	2135.5	2137.5	2132.4
45°	2446.9	2437.8	2418.5	2412.5	2410.4	2399.8	2396.8	2383.1	2379.0	2386.1	2383.6
47.5°	2701.6	2688.4	2677.8	2670.7	2668.2	2659.1	2645.9	2657.1	2651.5	2647.4	2639.8
50°	2930.5	2915.8	2915.8	2903.2	2905.2	2899.1	2885.4	2888.5	2872.8	2878.9	2874.8
52.5°	3122.4	3123.4	3128.5	3114.3	3116.9	3116.9	3112.3	3097.6	3101.7	3099.6	3109.3
55°	3366.5	3383.2	3374.1	3376.6	3379.7	3393.9	3404.0	3395.4	3381.2	3392.3	3423.2
57.5°	3793.4	3808.6	3817.7	3824.8	3836.4	3843.0	3897.7	3905.3	3889.1	3922.5	3991.4
60°	4535.8	4554.0	4581.4	4617.3	4624.9	4671.0	4699.3	4732.8	4744.9	4773.8	4847.7
62.5°	5428.5	5469.6	5474.6	5520.2	5555.7	5512.6	5523.8	5564.8	5518.2	5582.0	5585.0
65°	6012.9	6072.7	6074.7	6091.4	6104.6	6064.1	6045.8	6027.6	5983.6	5981.0	6025.1
67°	6113.2	6167.9	6190.7	6198.8	6196.8	6176.0	6146.1	6093.4	6050.9	6026.6	6044.8
67.5°	6084.8	6138.5	6170.4	6178.0	6178.5	6158.3	6130.9	6073.7	6033.7	6006.3	6025.6
70°	5619.0	5744.5	5799.2	5770.9	5787.1	5787.1	5786.1	5733.4	5713.6	5687.3	5677.2
72.5°	4672.0	4759.1	4828.5	4791.5	4796.1	4830.5	4822.4	4828.0	4771.2	4765.2	4671.5
75°	3346.8	3374.6	3351.3	3377.7	3235.9	3185.2	3099.1	2973.5	2940.6	2888.5	2732.5
77.5°	1778.0	1746.6	1684.3	1679.2	1621.0	1575.9	1520.2	1483.7	1391.6	1340.4	1223.4
80°	1255.9	1271.1	1294.9	1309.0	1322.2	1332.3	1311.6	1253.3	1176.4	1090.3	1008.7
82.5°	1199.6	1220.4	1234.6	1241.7	1236.6	1220.4	1172.8	1117.1	1014.3	939.9	851.8
85°	756.6	773.3	744.4	738.3	751.0	648.7	592.5	546.9	443.1	412.2	364.1
87.5°	203.1	214.2	214.7	208.1	204.1	179.8	159.0	140.8	116.5	109.4	88.6
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6
2.5°	812.3	811.8	811.8	810.2	809.2	808.7	808.2	806.7	805.7	805.7	805.2
5°	831.5	830.5	829.0	828.5	826.4	825.4	823.4	822.4	820.9	819.9	819.3
7.5°	858.8	856.3	853.3	853.8	850.7	849.2	848.2	846.2	844.7	843.1	842.6
10°	895.3	894.8	891.8	892.8	887.2	889.7	884.7	885.2	882.1	879.1	878.6
12.5°	941.9	941.4	938.3	934.8	933.8	934.3	931.3	931.8	928.2	927.2	926.2
15°	986.5	985.4	983.9	981.4	979.9	979.4	978.4	977.3	974.3	974.3	970.8
17.5°	1024.9	1025.4	1023.4	1021.4	1020.4	1018.9	1018.4	1018.4	1015.8	1013.3	1013.8
20°	1058.9	1059.9	1059.9	1058.4	1058.9	1057.9	1057.4	1058.4	1055.8	1054.8	1053.3
22.5°	1096.9	1096.9	1097.4	1098.4	1099.9	1100.4	1100.4	1099.4	1097.9	1097.4	1094.3
25°	1149.5	1147.5	1150.0	1151.0	1151.0	1153.6	1152.6	1153.1	1153.6	1152.0	1150.5
27.5°	1215.9	1213.8	1218.9	1222.4	1221.9	1223.4	1226.5	1222.9	1225.0	1226.5	1222.9
30°	1297.4	1302.4	1306.0	1308.5	1307.5	1312.1	1313.6	1313.1	1311.6	1314.1	1314.1
32.5°	1401.2	1398.7	1407.8	1413.3	1413.9	1412.8	1415.4	1418.4	1415.9	1419.9	1417.9
35°	1524.8	1526.3	1528.3	1534.4	1536.9	1532.9	1536.9	1540.5	1539.4	1539.9	1542.0
37.5°	1684.3	1686.8	1684.8	1685.3	1684.3	1703.5	1706.5	1709.6	1706.0	1703.0	1712.1
40°	1905.6	1905.6	1905.1	1911.6	1900.5	1912.7	1909.1	1917.7	1926.8	1921.8	1935.4
42.5°	2123.3	2135.5	2136.5	2126.9	2135.0	2148.1	2148.1	2153.7	2161.8	2153.7	2166.9
45°	2373.0	2388.2	2385.6	2401.8	2389.7	2404.9	2407.4	2400.3	2418.0	2420.1	2415.0
47.5°	2645.4	2648.4	2648.9	2654.5	2657.1	2669.2	2668.7	2681.9	2677.8	2657.6	2664.6
50°	2878.9	2886.4	2890.5	2894.0	2906.7	2915.3	2927.0	2929.0	2925.9	2919.9	2914.3
52.5°	3112.3	3130.5	3142.2	3173.6	3193.3	3209.0	3228.3	3235.4	3231.8	3230.3	3208.0
55°	3424.7	3468.3	3535.6	3579.2	3626.8	3654.6	3676.9	3688.1	3680.0	3684.0	3637.9
57.5°	4013.2	4115.5	4174.2	4248.7	4332.7	4367.7	4377.3	4416.8	4373.2	4329.7	4294.7
60°	4887.7	4981.9	5088.8	5165.2	5193.6	5290.3	5244.7	5193.6	5147.0	5056.9	4955.1
62.5°	5677.2	5798.7	5853.4	5924.8	5905.6	5897.5	5867.1	5785.6	5685.8	5551.6	5415.9
65°	6066.6	6135.0	6168.9	6192.2	6170.4	6114.2	6013.9	5893.4	5750.6	5576.9	5398.7
67°	6082.3	6113.7	6124.8	6102.6	6053.9	5966.3	5839.7	5669.1	5493.4	5294.4	5093.8
67.5°	6056.5	6077.2	6082.8	6047.9	5990.1	5895.4	5760.2	5577.9	5391.1	5184.5	4982.9
70°	5704.0	5688.8	5639.7	5591.6	5411.3	5284.2	5048.8	4854.3	4595.0	4405.1	4189.9
72.5°	4634.0	4564.6	4517.0	4304.4	4086.6	3960.5	3707.3	3474.9	3238.4	3057.6	2925.4
75°	2601.3	2550.7	2418.5	2306.1	2126.4	1961.8	1843.8	1695.9	1554.1	1470.1	1408.3
77.5°	1175.3	1030.5	930.8	804.7	650.2	522.6	387.9	358.5	305.9	292.7	263.8
80°	917.1	813.3	682.6	538.3	379.8	255.2	187.4	159.0	149.4	143.3	140.3
82.5°	765.2	630.5	530.7	376.8	241.0	162.0	122.0	110.4	103.3	98.2	93.7
85°	327.1	258.8	213.2	152.4	108.4	85.6	74.9	68.4	61.8	56.2	52.7
87.5°	76.5	58.7	53.7	45.6	43.0	42.5	42.0	40.0	37.5	34.4	30.9
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):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6
2.5°	804.7	804.2	803.1	801.6	801.6	799.6	793.0	788.5	783.4	780.4	777.3
5°	818.3	817.8	815.3	813.8	812.8	808.7	797.6	789.0	779.8	773.3	768.2
7.5°	841.1	839.6	837.6	836.6	833.5	828.5	812.3	800.1	786.9	776.3	767.7
10°	878.1	875.6	872.5	869.5	870.5	862.4	843.7	825.9	806.7	790.0	778.3
12.5°	923.2	923.2	921.6	919.6	916.1	907.0	881.6	860.9	837.6	816.8	808.2
15°	970.8	968.2	965.7	962.7	962.1	950.0	927.2	903.4	879.1	861.4	851.2
17.5°	1009.8	1010.8	1007.2	1006.2	1005.2	993.0	968.7	947.5	929.7	911.0	894.8
20°	1051.3	1049.2	1048.2	1046.7	1046.2	1036.1	1016.8	1003.7	988.0	959.6	917.1
22.5°	1095.8	1093.3	1094.3	1091.3	1090.8	1083.7	1069.5	1065.5	1042.2	982.4	908.5
25°	1153.6	1149.0	1150.5	1150.5	1151.0	1144.5	1142.9	1135.8	1077.1	976.8	874.0
27.5°	1222.4	1224.5	1224.5	1224.0	1220.4	1222.4	1229.5	1205.2	1089.3	947.5	822.4
30°	1312.1	1313.1	1314.1	1317.6	1310.0	1323.2	1331.8	1254.3	1080.1	907.0	757.6
32.5°	1420.9	1416.9	1418.9	1420.9	1423.5	1437.1	1432.1	1279.2	1053.3	851.8	677.0
35°	1541.0	1548.6	1550.6	1555.1	1560.2	1581.0	1522.7	1284.2	1012.3	777.8	574.3
37.5°	1719.7	1731.9	1731.9	1748.1	1738.5	1763.8	1603.8	1272.1	950.0	675.0	458.3
40°	1945.1	1950.6	1956.2	1958.2	1953.2	1950.1	1656.9	1242.2	862.4	545.9	335.2
42.5°	2175.0	2172.9	2173.4	2177.0	2163.3	2106.1	1689.8	1190.0	753.5	407.6	240.5
45°	2422.6	2414.0	2411.5	2404.4	2392.2	2271.7	1708.6	1116.6	610.2	286.6	188.9
47.5°	2663.6	2653.0	2636.8	2617.0	2593.8	2404.9	1706.5	1021.4	467.9	205.1	166.6
50°	2910.8	2892.0	2857.1	2837.8	2798.3	2537.0	1694.9	915.6	336.8	169.6	156.0
52.5°	3193.3	3159.9	3127.5	3089.0	3023.7	2699.6	1677.2	796.6	245.6	155.5	148.9
55°	3614.6	3560.0	3506.8	3426.8	3363.5	2917.3	1647.3	668.4	193.9	149.9	144.8
57.5°	4195.5	4102.3	4035.0	3927.1	3825.8	3218.6	1615.4	552.0	173.2	148.4	142.8
60°	4849.2	4709.0	4583.4	4450.7	4335.2	3594.9	1598.7	460.8	168.6	149.9	143.3
62.5°	5259.4	5093.8	4936.8	4774.8	4608.7	3774.7	1526.3	398.0	170.7	156.5	147.4
65°	5207.8	5025.0	4854.3	4656.8	4500.3	3605.0	1341.9	336.8	174.2	168.1	158.5
67°	4859.4	4682.1	4487.7	4294.2	4142.3	3282.4	1132.8	283.6	178.3	181.3	170.7
67.5°	4766.2	4566.7	4370.7	4192.9	4028.4	3182.7	1078.1	270.4	179.3	184.8	174.7
70°	3974.7	3816.7	3587.3	3455.6	3336.6	2580.1	804.2	210.2	182.3	200.5	193.9
72.5°	2781.1	2628.2	2508.2	2436.3	2366.9	1874.7	565.6	167.6	177.7	209.1	202.6
75°	1404.7	1369.8	1327.8	1304.5	1305.5	1089.8	340.8	142.8	167.1	200.5	183.8
77.5°	277.5	270.4	273.5	299.3	294.7	335.7	169.1	121.0	142.3	154.5	132.2
80°	134.2	129.6	125.6	124.6	122.0	117.0	106.3	100.8	115.5	101.8	87.6
82.5°	87.1	82.0	80.0	76.0	76.5	83.0	92.7	96.7	93.7	70.4	59.2
85°	49.1	48.6	47.6	48.6	50.6	66.3	99.3	90.6	75.5	49.6	44.6
87.5°	29.4	27.9	28.4	28.9	29.9	49.1	78.5	65.3	48.1	25.8	26.3
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°	799.6	799.6	799.6	799.6
2.5°	776.8	774.8	774.8	774.3
5°	764.1	761.1	760.6	760.6
7.5°	762.1	758.1	757.6	756.0
10°	771.2	769.7	770.2	768.7
12.5°	800.1	802.1	804.2	804.2
15°	844.2	842.6	845.2	842.6
17.5°	876.6	863.4	860.4	858.8
20°	877.6	850.2	841.1	839.6
22.5°	846.2	805.7	790.5	787.9
25°	793.0	741.9	722.6	720.6
27.5°	726.2	668.9	640.6	639.6
30°	645.7	577.8	541.8	536.3
32.5°	547.4	466.9	428.9	416.8
35°	434.0	351.4	316.0	315.0
37.5°	324.1	259.8	237.0	236.0
40°	237.5	204.1	195.5	193.9
42.5°	193.9	180.3	176.7	175.2
45°	173.7	168.1	166.1	164.6
47.5°	161.5	158.0	156.5	156.5
50°	151.9	150.9	149.9	149.9
52.5°	145.3	144.8	143.8	143.3
55°	139.8	137.7	138.2	137.7
57.5°	136.2	133.2	133.2	133.2
60°	134.2	128.6	128.6	129.1
62.5°	134.7	126.1	125.6	125.6
65°	138.8	124.6	121.5	122.0
67°	143.8	123.1	117.0	116.5
67.5°	145.3	122.0	115.5	115.0
70°	151.4	119.0	107.9	106.8
72.5°	152.4	114.4	100.3	99.3
75°	141.8	108.4	94.2	91.7
77.5°	110.4	93.2	85.1	85.1
80°	77.5	71.4	60.8	60.3
82.5°	56.7	53.7	44.6	43.5
85°	41.5	39.0	32.9	32.9
87.5°	25.8	24.8	21.3	20.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)