

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: P163268

Luminaire Tested: **LDRL-SL2-E05-E-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163268
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-E05-E-7050-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9124.9 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): 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

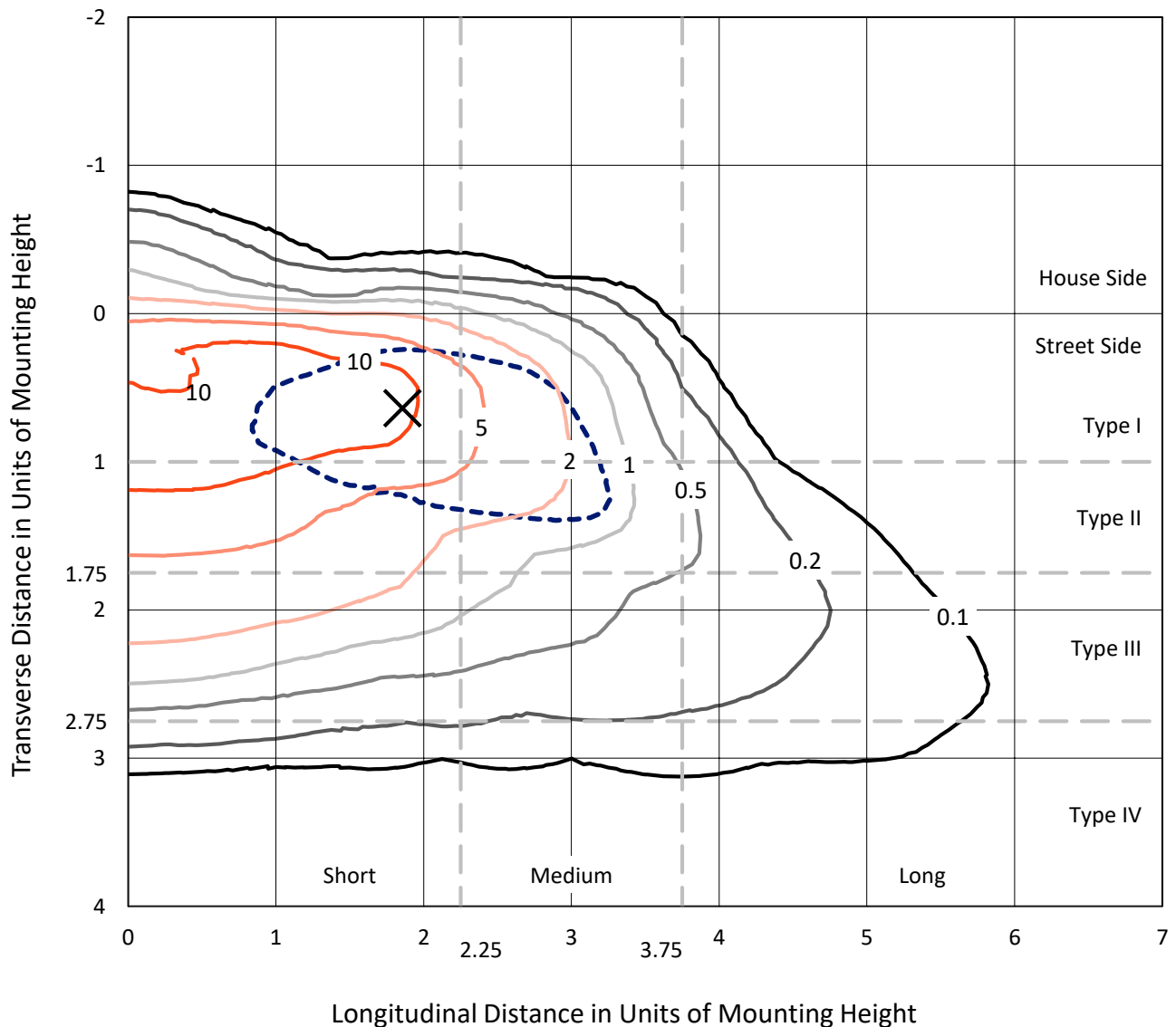


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Iso-Footcandle Lines of Horizontal Illumination

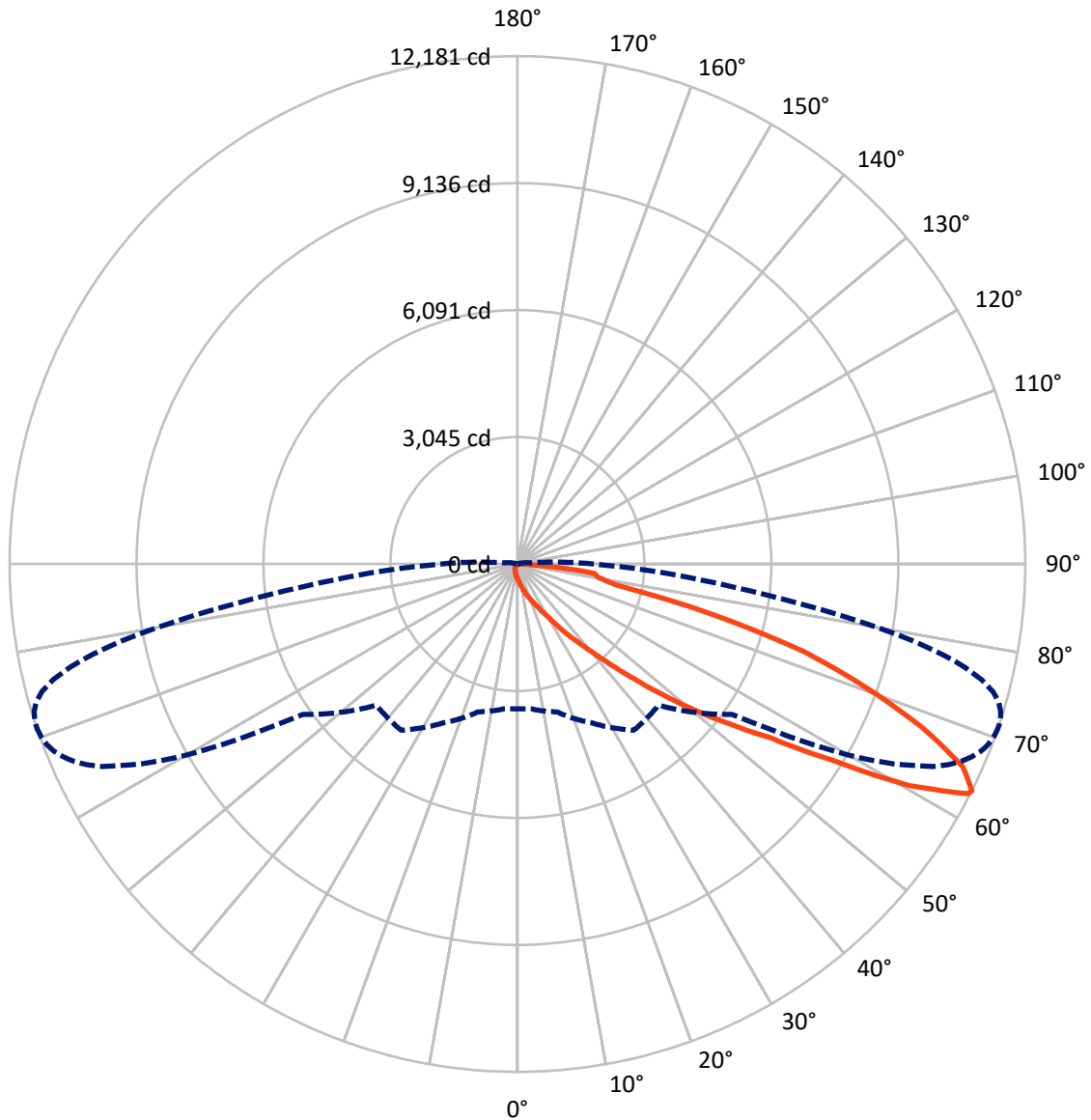
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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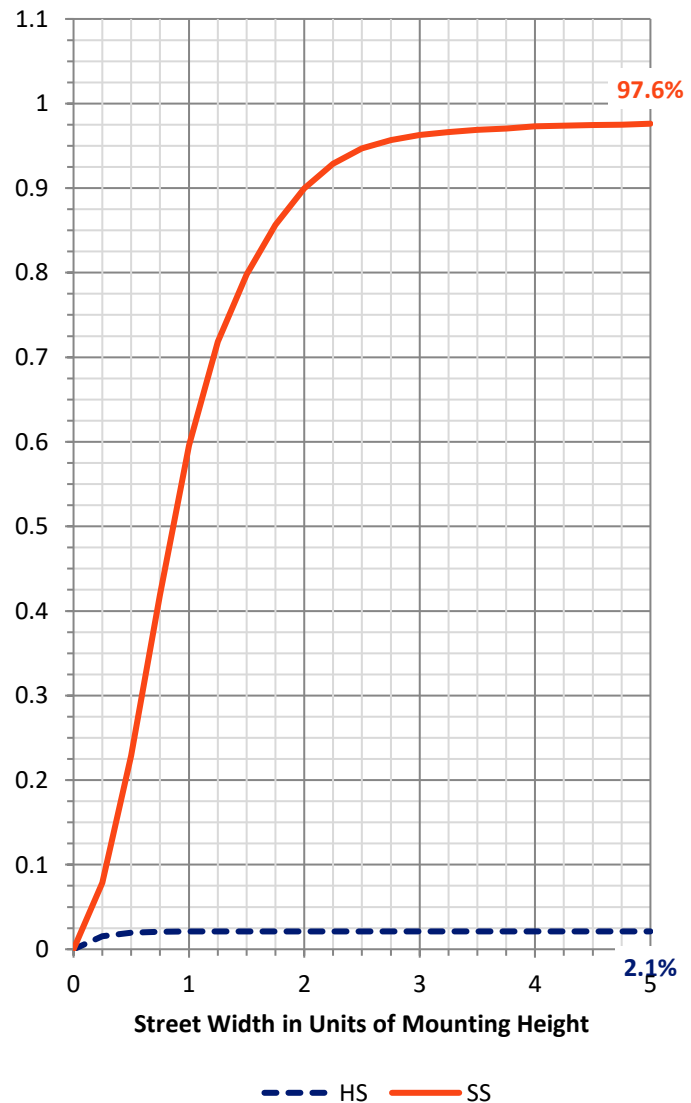
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	193.7	0.0	193.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8931.2	0.0	8931.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	9124.9	0.0	9124.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	0.4
10°-20°	150.0	1.6
20°-30°	304.7	3.3
30°-40°	744.6	8.2
40°-50°	1665.1	18.2
50°-60°	2341.4	25.7
60°-70°	2753.3	30.2
70°-80°	994.2	10.9
80°-90°	132.9	1.5
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°	9124.9	100.0
0°-180°	9124.9	100.0



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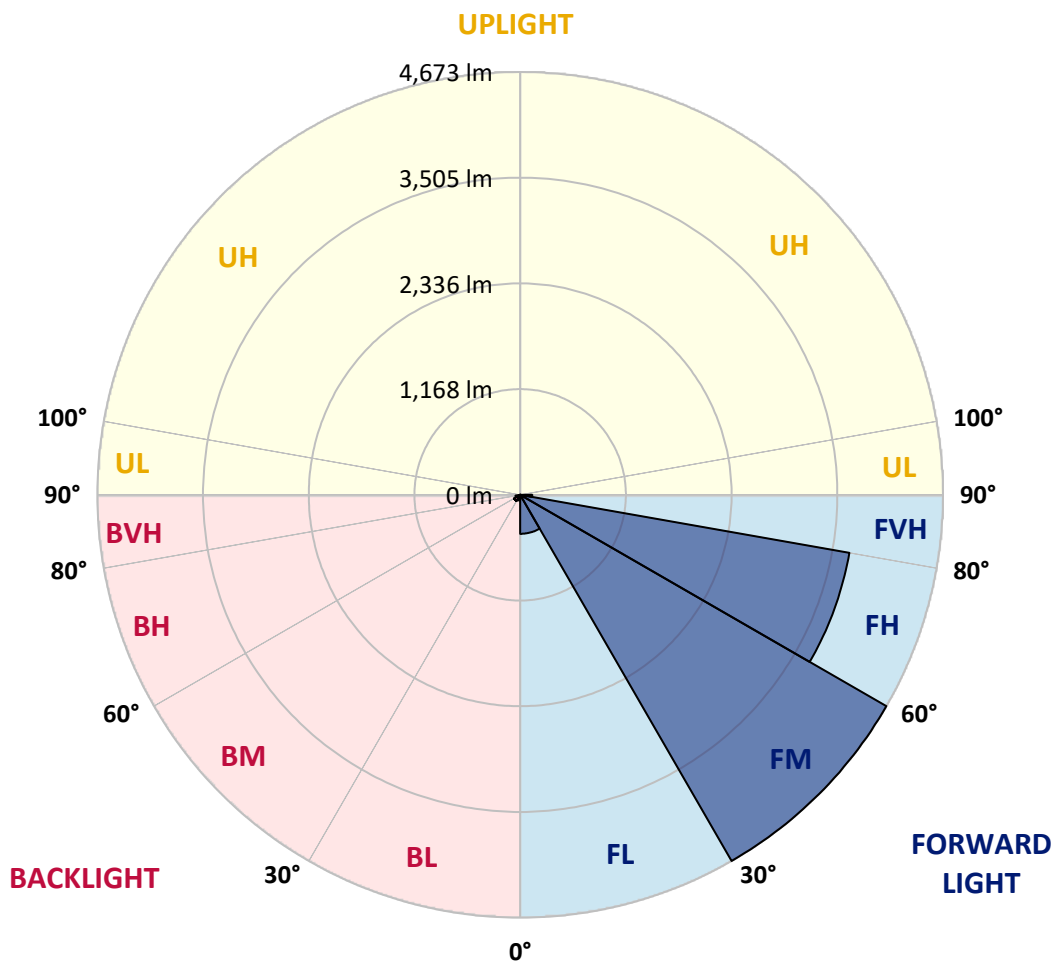
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.2	4.7			
FM	(30°-60°)	4673.0	51.2			
FH	(60°-80°)	3694.3	40.5			G2/5000
FVH	(80°-90°)	132.7	1.5			G2/225
BL	(0°-30°)	62.3	0.7	B0/110		
BM	(30°-60°)	78.0	0.9	B0/220		
BH	(60°-80°)	53.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
2.5°	457.8	462.8	459.5	451.2	441.2	428.0	416.4	416.4	414.8	409.7	411.4
5°	600.5	602.1	595.6	575.6	557.4	529.2	497.7	494.4	491.0	486.1	484.4
7.5°	739.8	746.5	739.8	718.3	681.7	638.6	588.9	584.0	574.0	574.0	567.3
10°	882.6	882.6	875.9	850.9	817.8	756.4	693.4	685.1	673.5	670.1	660.2
12.5°	983.7	983.7	980.3	967.1	940.5	885.8	809.5	801.2	786.3	781.3	769.7
15°	1023.5	1023.5	1025.2	1036.8	1038.4	1013.6	934.0	927.3	912.4	899.1	894.1
17.5°	1048.4	1046.7	1046.7	1063.4	1093.2	1109.7	1058.3	1051.8	1035.1	1028.5	1011.9
20°	1103.2	1099.8	1089.8	1089.8	1118.0	1176.1	1176.1	1174.5	1156.2	1151.3	1143.0
22.5°	1184.4	1181.1	1151.3	1126.4	1139.6	1212.7	1280.7	1277.3	1270.7	1264.1	1259.0
25°	1317.1	1305.5	1254.1	1181.1	1169.5	1247.4	1360.3	1368.5	1373.5	1373.5	1376.8
27.5°	1517.8	1502.9	1411.7	1275.7	1224.2	1303.9	1448.1	1464.8	1479.7	1483.0	1497.9
30°	1796.5	1770.0	1639.0	1439.9	1322.1	1386.8	1577.5	1595.8	1617.3	1624.0	1647.2
32.5°	2254.4	2239.5	2113.4	1814.8	1562.7	1549.4	1758.3	1781.6	1809.8	1821.4	1849.7
35°	2951.1	2954.5	2851.5	2582.8	2234.4	2052.0	2081.9	2101.8	2111.7	2146.5	2161.5
37.5°	3423.9	3432.1	3455.4	3349.2	3100.4	2914.7	2680.7	2702.2	2650.8	2655.9	2657.5
40°	3682.7	3709.2	3845.2	3948.0	3928.1	3820.3	3632.9	3644.5	3548.3	3526.7	3422.2
42.5°	3855.2	3890.0	4107.3	4425.8	4588.4	4686.2	4643.1	4638.2	4563.5	4535.3	4447.3
45°	3963.0	3994.5	4268.2	4737.7	5112.6	5397.9	5515.7	5529.0	5466.0	5437.7	5364.7
47.5°	3958.0	3994.5	4288.1	4853.8	5406.2	5862.3	6194.2	6210.7	6248.9	6224.0	6229.0
50°	3739.0	3773.9	4069.1	4656.4	5319.9	6074.7	6681.9	6734.9	6796.3	6837.8	6857.7
52.5°	3473.7	3498.5	3760.6	4318.0	4951.7	5986.8	6970.5	7061.8	7153.0	7231.0	7285.7
55°	3375.8	3404.0	3609.6	4072.5	4656.4	5618.5	7104.9	7239.3	7368.7	7496.3	7600.9
57.5°	3427.2	3453.8	3601.3	3956.4	4480.6	5230.4	7143.0	7352.0	7564.3	7771.7	7977.5
60°	3616.3	3644.5	3770.5	4064.2	4434.1	5006.4	6993.7	7340.5	7693.7	8055.4	8395.5
62.5°	3541.6	3553.3	3739.0	4253.3	4765.8	4815.6	6451.3	6935.7	7474.8	8032.1	8581.2
63°	3470.3	3483.6	3672.7	4201.9	4867.1	4787.5	6283.8	6794.7	7363.6	7964.1	8561.3
65°	3146.9	3148.5	3292.9	3710.8	4754.3	4837.3	5537.3	6025.0	6678.5	7398.5	8153.2
67.5°	2349.0	2337.4	2476.7	2795.2	3732.5	4838.9	4752.6	5026.3	5480.8	6119.5	6796.3
70°	832.8	814.5	1040.1	1481.4	2325.7	3958.0	4084.1	4102.4	4228.4	4573.5	4998.2
72.5°	270.4	275.4	331.7	542.4	1071.7	2664.1	3697.6	3641.1	3608.0	3606.4	3662.8
75°	107.8	109.5	132.7	240.5	481.0	1284.0	3238.1	3269.6	3281.2	3297.8	3316.1
77.5°	51.4	56.4	74.6	134.3	238.9	635.4	2317.5	2584.5	2737.1	2854.9	2926.2
80°	18.3	21.5	41.5	82.9	111.1	291.9	1221.0	1473.1	1697.0	1985.6	2234.4
82.5°	0.0	0.0	8.3	58.1	61.4	117.8	500.9	587.2	671.8	870.9	1118.0
85°	0.0	0.0	0.0	16.6	18.3	19.9	169.2	204.0	228.9	267.1	308.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	10.0	24.8	38.2
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
2.5°	408.1	406.4	406.4	403.1	401.4	398.1	396.5	391.5	389.8	389.8	389.8
5°	482.7	476.1	472.7	464.5	459.5	457.8	449.5	446.3	441.2	442.9	434.7
7.5°	565.7	554.1	549.1	537.5	534.2	522.5	519.2	510.9	506.0	496.0	492.6
10°	656.9	641.9	633.7	615.5	610.4	602.1	592.2	582.2	574.0	564.1	559.0
12.5°	761.4	748.1	741.5	716.6	705.0	693.4	680.1	666.9	653.6	645.3	633.7
15°	884.2	862.6	856.0	832.8	812.9	797.9	779.6	763.1	753.2	736.5	724.9
17.5°	1005.3	983.7	978.7	943.9	922.4	912.4	892.5	870.9	852.7	836.1	817.8
20°	1126.4	1111.5	1098.1	1065.0	1041.8	1025.2	998.6	977.1	962.2	938.9	915.7
22.5°	1247.4	1232.6	1222.6	1187.7	1166.2	1143.0	1119.7	1096.5	1074.9	1046.7	1020.2
25°	1371.9	1361.9	1356.9	1325.4	1305.5	1284.0	1260.8	1234.2	1207.6	1176.1	1147.9
27.5°	1501.3	1504.6	1494.6	1488.0	1466.4	1451.5	1415.0	1396.7	1376.8	1338.7	1303.9
30°	1665.5	1675.4	1672.1	1677.1	1663.8	1653.9	1625.7	1602.5	1579.3	1542.7	1502.9
32.5°	1872.8	1886.1	1892.8	1911.0	1904.3	1901.1	1892.8	1859.6	1843.0	1780.0	1763.4
35°	2193.0	2186.3	2214.5	2229.5	2222.9	2219.6	2209.6	2191.4	2171.4	2126.6	2085.1
37.5°	2609.4	2616.1	2626.0	2596.1	2576.2	2574.5	2544.6	2526.5	2498.3	2448.5	2398.7
40°	3372.4	3330.9	3284.6	3158.5	3103.8	3072.2	2984.3	2959.4	2911.3	2843.2	2791.8
42.5°	4364.4	4323.0	4183.6	3973.0	3860.1	3704.2	3632.9	3545.0	3477.0	3365.8	3306.1
45°	5349.8	5230.4	5213.7	4968.3	4829.0	4623.2	4495.5	4347.8	4193.6	4047.6	3941.5
47.5°	6180.8	6154.4	6073.1	5923.8	5794.4	5621.8	5457.6	5230.4	5071.1	4863.7	4673.0
50°	6846.1	6844.4	6814.6	6728.3	6620.5	6481.2	6336.8	6144.4	5963.6	5709.8	5505.8
52.5°	7343.7	7370.3	7380.3	7353.7	7312.2	7189.5	7116.5	6955.6	6803.0	6587.3	6366.7
55°	7708.7	7806.6	7856.4	7912.7	7901.1	7858.0	7854.6	7750.2	7680.5	7509.7	7353.7
57.5°	8159.9	8320.8	8475.1	8748.8	8758.7	8855.0	8904.7	8954.5	8967.8	8899.7	8848.3
60°	8733.9	9062.4	9354.3	9926.5	10075.8	10311.4	10464.0	10629.9	10770.9	10782.5	10779.2
62.5°	9138.6	9644.6	10115.7	10965.1	11255.4	11527.4	11731.4	11892.4	11990.1	12089.7	12136.2
63°	9150.2	9704.3	10205.2	11081.1	11386.4	11645.2	11839.2	11988.5	12091.4	12151.1	12181.0
65°	8869.9	9541.8	10138.9	11011.4	11298.4	11558.9	11660.0	11757.9	11807.7	11830.9	11743.1
67.5°	7518.0	8174.9	8871.5	9846.9	10092.5	10404.3	10487.3	10537.1	10560.3	10555.2	10480.6
70°	5621.8	6172.6	6947.2	8062.0	8387.2	8692.3	8881.5	8962.8	8989.3	8981.0	8869.9
72.5°	3924.9	4248.3	4887.0	6127.8	6570.8	6962.2	7196.1	7317.2	7342.1	7292.3	7189.5
75°	3296.2	3312.8	3457.1	4135.5	4550.3	4968.3	5232.0	5308.4	5258.6	5107.6	4845.5
77.5°	2942.8	2979.3	2979.3	3080.5	3161.7	3277.9	3302.8	3117.0	2901.3	2622.6	2397.1
80°	2468.4	2596.1	2685.7	2760.3	2768.6	2745.4	2684.0	2579.5	2413.6	2201.3	1965.7
82.5°	1499.7	1751.8	1854.6	2239.5	2428.6	2556.3	2546.4	2407.0	2280.9	2060.3	1859.6
85°	378.2	408.1	442.9	575.6	645.3	787.9	877.5	919.0	934.0	857.6	776.4
87.5°	36.5	24.8	41.5	31.5	44.7	33.1	44.7	41.5	51.4	54.7	59.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
2.5°	386.5	384.9	383.1	381.5	379.9	378.2	374.9	374.9	371.6	369.9	368.3
5°	429.6	426.3	424.7	421.3	416.4	413.0	408.1	401.4	396.5	394.8	391.5
7.5°	484.4	476.1	472.7	467.8	461.1	451.2	444.6	439.6	431.3	426.3	416.4
10°	545.8	537.5	527.5	517.6	507.6	496.0	487.7	481.0	467.8	461.1	449.5
12.5°	623.8	608.8	597.2	584.0	570.6	557.4	547.4	527.5	515.9	500.9	491.0
15°	703.4	690.1	676.8	660.2	640.3	618.7	608.8	590.5	575.6	552.4	539.1
17.5°	799.5	774.7	754.8	734.9	716.6	696.7	676.8	648.6	627.1	607.1	580.6
20°	894.1	864.3	842.7	816.2	789.6	758.1	734.9	715.0	685.1	658.6	630.3
22.5°	995.3	965.5	930.6	904.1	867.6	842.7	811.1	778.0	748.1	713.3	678.5
25°	1118.0	1086.5	1046.7	1011.9	970.4	935.6	897.4	859.3	822.8	783.0	738.2
27.5°	1269.0	1235.8	1192.7	1151.3	1096.5	1053.4	1016.9	965.5	919.0	869.2	817.8
30°	1459.8	1423.3	1370.3	1310.5	1255.7	1207.6	1156.2	1088.2	1036.8	977.1	910.7
32.5°	1708.6	1665.5	1594.2	1537.7	1469.8	1406.7	1335.4	1267.3	1194.4	1116.4	1040.1
35°	2022.1	1982.3	1899.4	1816.4	1741.8	1667.1	1577.5	1499.7	1396.7	1302.2	1204.3
37.5°	2347.3	2275.9	2199.7	2110.1	2017.1	1927.5	1818.1	1710.3	1592.5	1489.7	1366.9
40°	2718.9	2632.6	2569.6	2473.3	2342.3	2214.5	2113.4	1979.0	1831.4	1693.7	1549.4
42.5°	3228.1	3131.9	3019.1	2873.1	2778.6	2629.3	2498.3	2339.0	2144.9	1990.6	1816.4
45°	3817.0	3686.0	3576.5	3435.5	3321.0	3135.3	2982.6	2770.3	2576.2	2373.8	2161.5
47.5°	4488.9	4326.3	4167.0	4027.7	3845.2	3662.8	3468.6	3243.1	2994.3	2771.9	2519.8
50°	5260.2	5029.7	4809.0	4629.9	4379.4	4168.7	3958.0	3704.2	3428.8	3173.4	2886.4
52.5°	6117.8	5850.8	5558.8	5283.4	4993.1	4722.8	4469.0	4177.0	3870.1	3558.2	3238.1
55°	7153.0	6952.3	6608.8	6258.8	5870.7	5509.1	5182.2	4820.6	4447.3	4037.6	3700.9
57.5°	8773.7	8675.8	8388.8	8038.8	7532.8	7093.3	6539.2	6096.3	5555.5	4991.5	4556.8
60°	10970.0	10848.9	10688.0	10404.3	10002.9	9405.7	8795.3	8106.8	7284.0	6502.7	5761.2
62.5°	12141.2	12098.0	11967.0	11771.2	11396.3	10925.3	10309.8	9553.3	8624.4	7675.5	6729.9
63°	12176.0	12121.3	12008.4	11809.3	11479.2	11023.0	10419.3	9684.4	8775.4	7808.3	6842.8
65°	11704.9	11683.3	11568.8	11351.5	11126.0	10777.6	10309.8	9677.7	8914.7	8000.6	7040.2
67.5°	10381.1	10316.4	10140.6	10074.2	9916.6	9674.4	9317.8	8883.2	8337.4	7619.1	6789.6
70°	8780.3	8684.1	8463.4	8345.7	8153.2	8000.6	7783.3	7473.1	7136.4	6635.4	6016.7
72.5°	7083.3	6884.2	6681.9	6375.0	6106.3	5834.2	5593.6	5374.6	5004.7	4802.4	4332.9
75°	4600.0	4238.3	3891.7	3427.2	3009.2	2639.2	2279.3	2096.7	1716.9	1562.7	1342.0
77.5°	2183.0	1980.7	1708.6	1497.9	1229.2	1003.6	819.4	615.5	482.7	378.2	288.6
80°	1761.7	1590.9	1426.6	1235.8	1033.5	824.5	632.0	472.7	335.1	232.2	164.2
82.5°	1571.0	1385.1	1182.8	1051.8	914.1	748.1	613.8	500.9	369.9	270.4	184.1
85°	610.4	514.3	396.5	323.4	252.1	207.4	187.5	129.4	101.2	79.6	61.4
87.5°	53.0	43.1	34.8	23.2	24.8	13.2	14.9	10.0	8.3	8.3	6.7
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
2.5°	366.6	365.0	363.2	360.0	360.0	356.7	355.0	353.3	345.1	326.8	311.8
5°	384.9	381.5	378.2	373.2	369.9	365.0	361.6	356.7	338.4	303.5	273.7
7.5°	411.4	404.8	399.8	389.8	384.9	378.2	373.2	365.0	335.1	282.0	240.5
10°	442.9	431.3	423.0	411.4	401.4	393.1	384.9	373.2	331.7	258.8	210.7
12.5°	481.0	467.8	451.2	437.9	424.7	413.0	401.4	386.5	326.8	238.9	187.5
15°	519.2	499.3	487.7	469.4	451.2	434.7	418.0	404.8	328.5	217.3	167.6
17.5°	562.3	542.4	517.6	497.7	477.8	456.2	436.3	409.7	320.1	200.7	152.6
20°	603.9	575.6	552.4	527.5	499.3	472.7	447.9	424.7	313.5	184.1	139.3
22.5°	648.6	615.5	585.6	554.1	519.2	489.3	459.5	429.6	301.9	169.2	127.8
25°	703.4	665.2	622.0	584.0	547.4	510.9	472.7	436.3	290.3	156.0	119.4
27.5°	769.7	719.9	676.8	628.7	577.3	530.8	489.3	449.5	278.7	146.0	111.1
30°	854.3	796.3	734.9	673.5	618.7	565.7	507.6	457.8	267.1	136.1	102.8
32.5°	967.1	894.1	819.4	748.1	675.2	607.1	545.8	481.0	260.4	127.8	94.5
35°	1116.4	1021.9	930.6	841.0	753.2	670.1	590.5	517.6	260.4	117.8	84.6
37.5°	1257.4	1147.9	1031.9	920.6	816.2	719.9	625.4	537.5	247.2	109.5	76.3
40°	1410.1	1278.9	1143.0	1011.9	885.8	766.4	658.6	557.4	235.6	99.5	68.0
42.5°	1643.9	1478.0	1300.6	1147.9	997.0	849.3	715.0	595.6	220.6	89.6	59.7
45°	1950.8	1740.2	1531.2	1345.3	1152.9	972.1	812.9	665.2	217.3	81.3	51.4
47.5°	2279.3	2030.5	1784.9	1547.7	1322.1	1111.5	920.6	743.2	217.3	73.0	44.7
50°	2606.1	2294.2	2032.1	1756.7	1502.9	1254.1	1026.8	824.5	219.0	66.4	36.5
52.5°	2901.3	2567.9	2274.3	1955.8	1675.4	1386.8	1139.6	904.1	215.7	58.1	29.9
55°	3311.0	2919.6	2579.5	2227.9	1899.4	1574.3	1293.9	1023.5	217.3	51.4	24.8
57.5°	4065.8	3606.4	3196.6	2735.5	2357.3	1937.5	1597.4	1269.0	237.2	43.1	18.3
60°	5149.1	4551.9	3976.3	3414.0	2932.8	2433.5	1992.3	1605.8	278.7	34.8	13.2
62.5°	5877.3	5095.9	4409.3	3788.8	3229.8	2707.3	2226.1	1786.6	306.9	28.2	8.3
63°	5951.9	5144.1	4454.0	3813.7	3243.1	2720.5	2236.1	1799.9	308.5	26.6	8.3
65°	6093.0	5227.1	4479.0	3818.7	3229.8	2702.2	2229.5	1798.1	311.8	21.5	6.7
67.5°	5932.0	5099.3	4334.6	3676.0	3113.7	2594.4	2146.5	1731.9	310.2	14.9	4.9
70°	5305.0	4614.9	3943.1	3329.3	2818.4	2349.0	1954.1	1579.3	285.4	10.0	3.3
72.5°	3895.0	3425.6	2904.7	2461.7	2123.3	1763.4	1504.6	1186.1	220.6	6.7	1.6
75°	1154.6	1051.8	884.2	779.6	688.4	569.0	506.0	394.8	112.8	3.3	0.0
77.5°	230.6	209.0	187.5	170.8	160.9	137.7	131.0	107.8	46.5	1.6	0.0
80°	121.1	99.5	84.6	74.6	64.6	53.0	44.7	36.5	8.3	0.0	0.0
82.5°	116.2	78.0	56.4	46.5	39.8	31.5	24.8	18.3	4.9	0.0	0.0
85°	43.1	33.1	24.8	19.9	16.6	14.9	11.6	10.0	0.0	0.0	0.0
87.5°	6.7	4.9	4.9	3.3	3.3	1.6	1.6	1.6	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	350.0	350.0	350.0	350.0	350.0	350.0	350.0
2.5°	297.0	283.6	277.0	268.7	268.7	267.1	270.4
5°	247.2	228.9	215.7	205.7	207.4	202.3	204.0
7.5°	209.0	190.8	179.2	172.5	170.8	169.2	169.2
10°	180.8	164.2	154.2	149.3	147.7	147.7	147.7
12.5°	160.9	144.3	136.1	132.7	132.7	131.0	131.0
15°	144.3	131.0	122.7	119.4	119.4	117.8	119.4
17.5°	131.0	117.8	111.1	107.8	107.8	106.2	106.2
20°	119.4	107.8	101.2	96.2	96.2	94.5	96.2
22.5°	109.5	97.9	89.6	86.3	84.6	82.9	84.6
25°	99.5	87.9	79.6	74.6	73.0	73.0	71.3
27.5°	91.2	79.6	69.7	64.6	63.0	63.0	61.4
30°	82.9	69.7	59.7	54.7	53.0	53.0	53.0
32.5°	74.6	59.7	51.4	46.5	44.7	44.7	44.7
35°	66.4	51.4	43.1	38.2	36.5	36.5	36.5
37.5°	56.4	43.1	33.1	29.9	28.2	26.6	26.6
40°	48.1	33.1	24.8	21.5	18.3	18.3	18.3
42.5°	39.8	26.6	18.3	13.2	11.6	10.0	11.6
45°	33.1	19.9	11.6	6.7	4.9	4.9	4.9
47.5°	26.6	13.2	4.9	1.6	1.6	1.6	1.6
50°	19.9	8.3	1.6	0.0	0.0	1.6	1.6
52.5°	14.9	4.9	0.0	0.0	0.0	0.0	0.0
55°	8.3	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)