

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: P145129

Luminaire Tested: **LDRL-SL3-E02-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145129  
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-E02-E-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5422.9 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1  
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

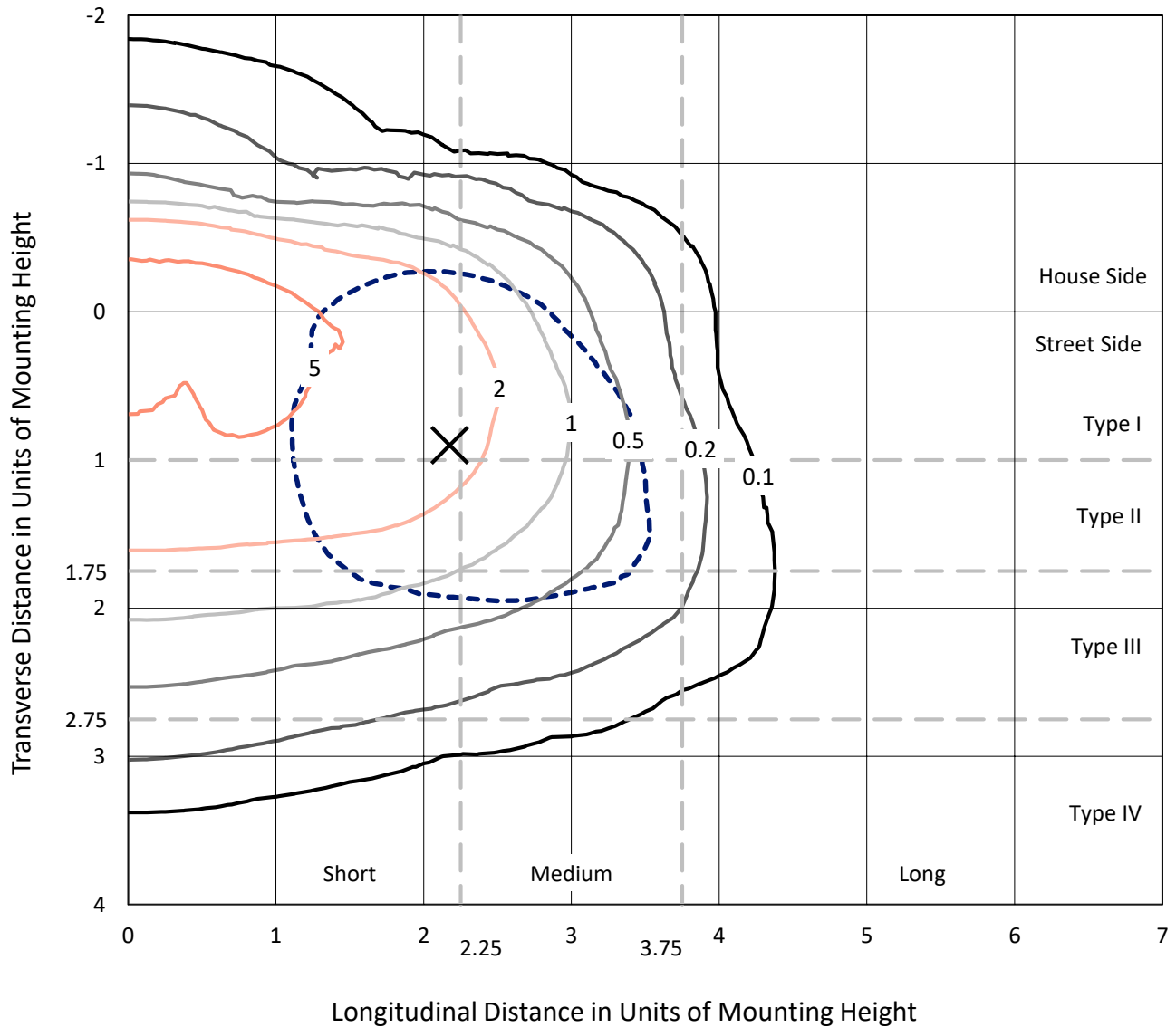


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### Iso-Footcandle Lines of Horizontal Illumination

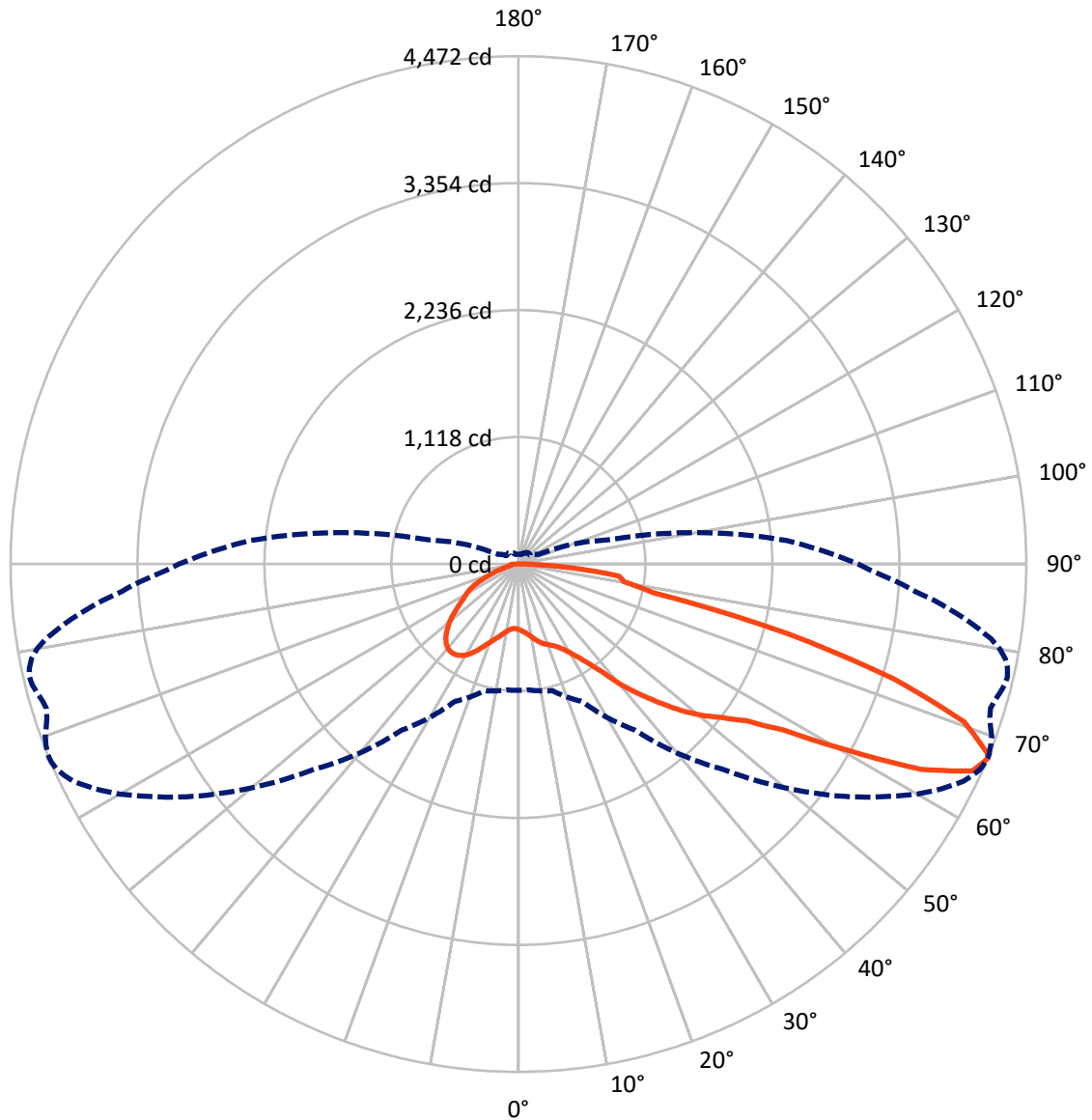
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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
<b>House Side</b>	Lumens	1284.1	0.0	1284.1
	% Fixture	23.7	0.0	23.7
<b>Street Side</b>	Lumens	4138.8	0.0	4138.8
	% Fixture	76.3	0.0	76.3
<b>Total</b>	Lumens	5422.9	0.0	5422.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.6	1.1
10°-20°	197.2	3.6
20°-30°	351.0	6.5
30°-40°	511.3	9.4
40°-50°	787.7	14.5
50°-60°	1153.7	21.3
60°-70°	1532.0	28.3
70°-80°	722.1	13.3
80°-90°	110.4	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°	5422.9	100.0
0°-180°	5422.9	100.0



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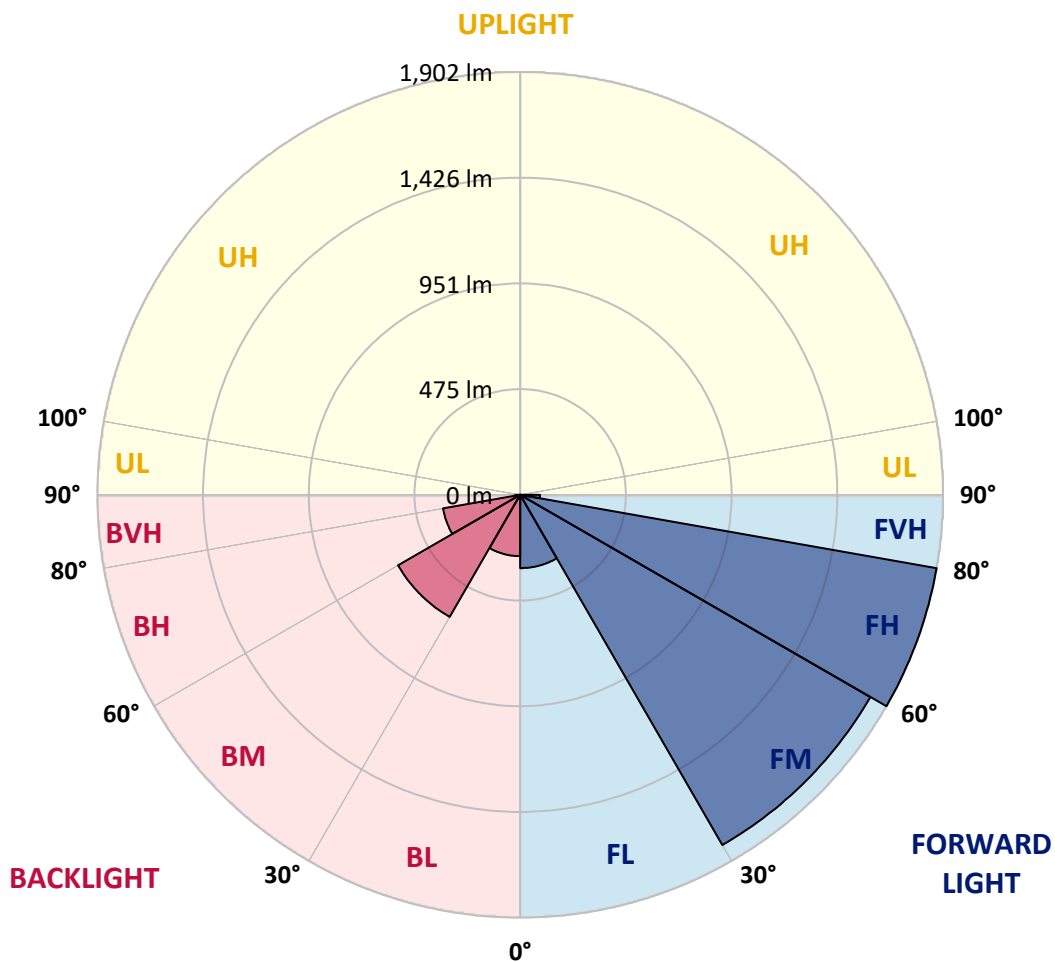
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.7	6.1			
FM	(30°-60°)	1818.6	33.5			
FH	(60°-80°)	1901.6	35.1			G2/5000
FVH	(80°-90°)	89.0	1.6			G1/100
BL	(0°-30°)	276.0	5.1	B1/500		
BM	(30°-60°)	634.1	11.7	B1/1000		
BH	(60°-80°)	352.5	6.5	B1/500		G1/500
BVH	(80°-90°)	21.4	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°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	605.7	603.2	603.5	604.6	601.0	599.2	595.1	592.6	592.2	591.9	590.4
5°	641.2	638.6	639.7	636.8	629.8	625.1	616.7	612.3	611.6	610.8	609.0
7.5°	678.1	674.8	671.1	667.8	660.2	652.5	641.5	635.0	634.2	633.1	632.0
10°	721.9	717.2	714.2	704.0	690.9	680.3	669.3	662.4	662.0	660.9	658.7
12.5°	771.2	766.1	760.6	747.1	726.7	711.0	698.2	694.1	690.9	691.2	689.0
15°	820.2	814.7	807.4	790.2	763.2	739.8	723.4	717.5	717.9	716.1	717.2
17.5°	861.5	856.7	846.1	824.2	792.8	760.6	739.8	737.3	738.0	737.6	738.7
20°	888.5	885.6	869.5	843.2	807.8	772.3	751.1	751.1	751.5	753.0	755.5
22.5°	904.9	900.6	879.4	842.5	807.4	777.8	761.4	765.0	767.2	768.3	772.3
25°	914.1	908.6	879.7	830.8	795.0	781.8	776.7	785.8	789.5	791.3	797.9
27.5°	914.1	907.5	875.0	816.2	780.7	793.9	805.9	821.6	824.2	829.7	837.4
30°	903.9	898.7	867.7	805.2	777.1	816.5	853.1	871.0	877.2	883.4	893.3
32.5°	892.9	888.5	864.0	811.1	797.5	864.0	925.0	949.5	953.2	958.3	968.5
35°	892.2	890.7	880.1	848.3	859.3	951.0	1033.5	1050.4	1060.6	1063.1	1067.5
37.5°	899.8	902.8	911.9	908.6	948.1	1080.3	1175.7	1209.3	1217.3	1212.9	1216.9
40°	917.7	925.0	959.0	1001.0	1083.6	1236.7	1369.3	1408.0	1416.8	1414.2	1413.1
42.5°	974.4	984.2	1034.3	1124.2	1224.6	1398.5	1549.0	1590.7	1593.6	1595.1	1585.6
45°	1063.1	1068.6	1135.1	1249.8	1377.3	1572.8	1728.4	1774.8	1773.0	1765.7	1758.7
47.5°	1164.0	1175.3	1254.9	1393.8	1535.2	1733.9	1910.0	1955.3	1959.3	1952.7	1940.0
50°	1255.7	1264.4	1354.3	1519.1	1674.4	1868.0	2063.1	2108.7	2108.0	2111.7	2115.3
52.5°	1328.0	1336.0	1421.5	1602.7	1776.6	1980.5	2178.5	2234.8	2243.6	2249.4	2256.7
55°	1365.3	1373.7	1452.6	1637.5	1838.8	2090.5	2311.9	2392.6	2407.6	2420.7	2432.8
57.5°	1366.0	1377.0	1449.3	1634.9	1870.9	2188.8	2488.3	2633.4	2654.6	2688.2	2729.5
60°	1343.7	1359.1	1424.1	1611.2	1907.8	2313.3	2779.1	3056.8	3098.4	3157.3	3210.2
62.5°	1285.6	1301.0	1359.1	1550.9	1950.9	2473.0	3199.3	3606.3	3695.1	3760.1	3864.9
65°	1193.9	1208.5	1257.5	1451.1	1916.6	2599.0	3512.4	4000.5	4091.1	4172.5	4295.7
67°	1112.1	1113.6	1154.8	1336.8	1782.9	2559.9	3575.2	4053.1	4136.7	4219.3	4362.2
67.5°	1083.2	1091.3	1123.4	1298.8	1732.1	2531.1	3550.4	4024.6	4105.7	4193.7	4339.5
70°	875.7	877.9	909.0	1036.1	1374.4	2098.5	3189.1	3661.1	3716.6	3845.6	3988.8
72.5°	534.1	530.5	540.3	634.6	904.6	1453.3	2553.4	3014.1	3090.0	3200.0	3296.8
75°	294.1	311.6	323.7	389.1	508.2	854.5	1738.7	2180.7	2292.1	2357.5	2376.9
77.5°	179.7	178.3	183.8	251.0	416.9	584.5	960.5	1279.4	1341.5	1360.2	1288.2
80°	85.5	88.8	87.7	103.4	202.0	493.2	671.5	821.6	853.1	871.0	894.4
82.5°	46.8	48.6	55.2	61.7	79.6	212.3	579.4	757.7	778.9	809.6	843.9
85°	29.2	30.7	42.4	44.6	49.0	65.4	241.5	442.8	460.7	521.7	541.1
87.5°	12.1	13.2	23.0	20.8	24.8	23.0	73.1	112.5	119.5	127.1	141.0
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):**

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	590.8	590.4	588.9	588.6	589.3	589.3	588.6	587.5	587.1	586.7	586.0
5°	608.3	607.6	606.5	605.7	605.4	605.4	604.3	603.2	602.1	600.6	600.3
7.5°	629.1	629.1	628.8	627.7	626.6	625.1	624.0	622.9	621.8	621.1	620.0
10°	656.5	658.0	655.4	654.7	654.3	652.1	651.8	650.7	649.9	648.1	648.1
12.5°	689.0	687.6	687.2	685.7	685.7	684.6	684.3	683.9	683.2	681.7	681.4
15°	716.1	716.1	715.7	715.0	715.7	715.0	713.9	714.6	713.5	713.9	712.8
17.5°	738.0	739.4	739.1	739.4	739.1	739.1	739.8	739.8	740.5	739.1	739.4
20°	756.3	758.4	759.5	758.8	759.5	759.9	761.7	762.5	763.6	764.3	764.3
22.5°	775.3	778.2	780.4	780.4	781.8	783.3	786.6	787.3	789.9	789.5	791.3
25°	801.9	806.7	808.1	810.3	812.2	814.7	818.7	820.6	821.6	824.2	827.1
27.5°	842.8	848.7	849.8	852.3	857.1	858.5	862.9	864.8	868.8	874.3	875.4
30°	898.7	906.0	906.4	909.3	914.8	916.6	920.3	925.0	928.3	933.8	934.2
32.5°	974.7	982.0	980.9	986.4	986.1	991.5	990.4	997.7	1000.7	1003.6	1011.6
35°	1075.9	1075.2	1080.7	1082.5	1081.4	1085.8	1085.1	1088.3	1091.3	1091.3	1100.0
37.5°	1221.7	1220.6	1219.9	1212.2	1210.4	1210.7	1209.3	1212.2	1207.4	1207.4	1216.9
40°	1417.2	1410.6	1405.5	1400.3	1395.2	1388.3	1382.4	1381.0	1372.9	1372.6	1368.9
42.5°	1587.0	1580.8	1577.2	1567.3	1562.2	1561.1	1546.9	1542.8	1540.6	1542.1	1538.4
45°	1765.3	1758.7	1744.9	1740.5	1739.0	1731.3	1729.2	1719.3	1716.4	1721.5	1719.7
47.5°	1949.1	1939.6	1931.9	1926.8	1925.0	1918.4	1908.9	1916.9	1912.9	1910.0	1904.5
50°	2114.2	2103.6	2103.6	2094.5	2096.0	2091.6	2081.7	2083.9	2072.6	2077.0	2074.0
52.5°	2252.7	2253.4	2257.1	2246.8	2248.7	2248.7	2245.4	2234.8	2237.7	2236.2	2243.2
55°	2428.8	2440.8	2434.3	2436.1	2438.3	2448.5	2455.8	2449.6	2439.4	2447.4	2469.7
57.5°	2736.8	2747.7	2754.3	2759.4	2767.8	2772.6	2812.0	2817.5	2805.8	2829.9	2879.6
60°	3272.4	3285.5	3305.2	3331.2	3336.7	3369.9	3390.4	3414.5	3423.2	3444.1	3497.4
62.5°	3916.4	3946.0	3949.7	3982.6	4008.1	3977.1	3985.1	4014.7	3981.1	4027.1	4029.3
65°	4338.0	4381.2	4382.6	4394.7	4404.2	4374.9	4361.8	4348.6	4316.9	4315.0	4346.8
67°	4410.4	4449.8	4466.3	4472.1	4470.7	4455.7	4434.1	4396.1	4365.4	4347.9	4361.1
67.5°	4389.9	4428.7	4451.7	4457.1	4457.5	4442.9	4423.2	4381.9	4353.0	4333.3	4347.2
70°	4053.8	4144.4	4183.9	4163.4	4175.1	4175.1	4174.4	4136.4	4122.1	4103.1	4095.8
72.5°	3370.6	3433.5	3483.5	3456.8	3460.1	3485.0	3479.1	3483.2	3442.2	3437.9	3370.3
75°	2414.5	2434.6	2417.8	2436.8	2334.5	2298.0	2235.9	2145.3	2121.5	2083.9	1971.4
77.5°	1282.7	1260.1	1215.1	1211.5	1169.5	1136.9	1096.8	1070.4	1004.0	967.1	882.7
80°	906.0	917.0	934.2	944.4	953.9	961.2	946.2	904.2	848.7	786.6	727.8
82.5°	865.5	880.5	890.7	895.8	892.2	880.5	846.1	805.9	731.8	678.1	614.5
85°	545.8	557.9	537.0	532.7	541.8	468.0	427.4	394.6	319.7	297.4	262.7
87.5°	146.5	154.5	154.9	150.2	147.2	129.7	114.7	101.6	84.0	78.9	63.9
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):**

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	586.0	585.6	585.6	584.5	583.8	583.4	583.1	582.0	581.3	581.3	580.9
5°	599.9	599.2	598.1	597.7	596.2	595.5	594.0	593.3	592.2	591.5	591.1
7.5°	619.6	617.8	615.6	616.0	613.8	612.7	611.9	610.5	609.4	608.3	607.9
10°	645.9	645.6	643.4	644.1	640.1	641.9	638.2	638.6	636.4	634.2	633.9
12.5°	679.5	679.2	677.0	674.4	673.7	674.1	671.9	672.2	669.7	668.9	668.2
15°	711.7	711.0	709.9	708.0	706.9	706.6	705.8	705.1	702.9	702.9	700.4
17.5°	739.4	739.8	738.4	736.9	736.2	735.1	734.7	734.7	732.9	731.0	731.4
20°	763.9	764.7	764.7	763.6	763.9	763.2	762.8	763.6	761.7	761.0	759.9
22.5°	791.3	791.3	791.7	792.4	793.5	793.9	793.9	793.2	792.1	791.7	789.5
25°	829.3	827.9	829.7	830.4	830.4	832.2	831.5	831.9	832.2	831.1	830.1
27.5°	877.2	875.7	879.4	881.9	881.6	882.7	884.9	882.3	883.8	884.9	882.3
30°	936.0	939.7	942.2	944.0	943.3	946.6	947.7	947.3	946.2	948.1	948.1
32.5°	1010.9	1009.1	1015.6	1019.7	1020.0	1019.3	1021.1	1023.3	1021.5	1024.4	1023.0
35°	1100.0	1101.1	1102.6	1107.0	1108.8	1105.9	1108.8	1111.4	1110.6	1111.0	1112.5
37.5°	1215.1	1216.9	1215.5	1215.9	1215.1	1229.0	1231.2	1233.4	1230.8	1228.6	1235.2
40°	1374.8	1374.8	1374.4	1379.2	1371.1	1379.9	1377.3	1383.5	1390.1	1386.5	1396.3
42.5°	1531.9	1540.6	1541.4	1534.4	1540.3	1549.8	1549.8	1553.8	1559.6	1553.8	1563.3
45°	1712.0	1722.9	1721.1	1732.8	1724.0	1735.0	1736.8	1731.7	1744.5	1746.0	1742.3
47.5°	1908.5	1910.7	1911.1	1915.1	1916.9	1925.7	1925.3	1934.8	1931.9	1917.3	1922.4
50°	2077.0	2082.4	2085.4	2087.9	2097.1	2103.3	2111.7	2113.1	2110.9	2106.6	2102.5
52.5°	2245.4	2258.5	2266.9	2289.6	2303.8	2315.2	2329.0	2334.2	2331.6	2330.5	2314.4
55°	2470.8	2502.2	2550.8	2582.2	2616.6	2636.7	2652.7	2660.8	2654.9	2657.8	2624.6
57.5°	2895.3	2969.1	3011.5	3065.2	3125.9	3151.1	3158.0	3186.5	3155.1	3123.7	3098.4
60°	3526.3	3594.2	3671.3	3726.5	3746.9	3816.7	3783.8	3746.9	3713.3	3648.3	3574.9
62.5°	4095.8	4183.5	4223.0	4274.5	4260.6	4254.8	4232.8	4174.0	4102.0	4005.2	3907.3
65°	4376.8	4426.1	4450.6	4467.4	4451.7	4411.1	4338.8	4251.8	4148.8	4023.5	3894.9
67°	4388.1	4410.8	4418.8	4402.7	4367.6	4304.4	4213.1	4090.0	3963.2	3819.6	3675.0
67.5°	4369.5	4384.4	4388.5	4363.3	4321.6	4253.3	4155.7	4024.2	3889.4	3740.4	3594.9
70°	4115.2	4104.2	4068.8	4034.1	3904.0	3812.3	3642.4	3502.2	3315.1	3178.1	3022.8
72.5°	3343.2	3293.2	3258.8	3105.4	2948.3	2857.3	2674.7	2507.0	2336.4	2205.9	2110.6
75°	1876.8	1840.2	1744.9	1663.8	1534.1	1415.3	1330.2	1223.5	1121.2	1060.6	1016.0
77.5°	848.0	743.5	671.5	580.5	469.1	377.0	279.9	258.7	220.7	211.2	190.3
80°	661.6	586.7	492.5	388.4	274.0	184.1	135.2	114.7	107.8	103.4	101.2
82.5°	552.0	454.8	382.9	271.8	173.9	116.9	88.0	79.6	74.5	70.9	67.6
85°	236.0	186.7	153.8	110.0	78.2	61.7	54.1	49.3	44.6	40.6	38.0
87.5°	55.2	42.4	38.7	32.9	31.1	30.7	30.3	28.9	27.0	24.8	22.3
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):**

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	580.5	580.2	579.4	578.3	578.3	576.9	572.1	568.8	565.2	563.0	560.8
5°	590.4	590.0	588.2	587.1	586.4	583.4	575.4	569.2	562.6	557.9	554.2
7.5°	606.8	605.7	604.3	603.5	601.3	597.7	586.0	577.2	567.7	560.1	553.9
10°	633.5	631.7	629.5	627.3	628.0	622.2	608.7	595.9	582.0	569.9	561.5
12.5°	666.0	666.0	664.9	663.5	660.9	654.3	636.1	621.1	604.3	589.3	583.1
15°	700.4	698.5	696.7	694.5	694.1	685.4	668.9	651.8	634.2	621.4	614.1
17.5°	728.5	729.2	726.7	725.9	725.2	716.4	698.9	683.6	670.8	657.2	645.6
20°	758.4	757.0	756.3	755.2	754.8	747.5	733.6	724.1	712.8	692.3	661.6
22.5°	790.6	788.8	789.5	787.3	786.9	781.8	771.6	768.7	751.9	708.8	655.4
25°	832.2	829.0	830.1	830.1	830.4	825.7	824.6	819.5	777.1	704.7	630.6
27.5°	881.9	883.4	883.4	883.0	880.5	881.9	887.0	869.5	785.8	683.6	593.3
30°	946.6	947.3	948.1	950.6	945.1	954.6	960.8	904.9	779.3	654.3	546.5
32.5°	1025.1	1022.2	1023.7	1025.1	1027.0	1036.8	1033.2	922.8	759.9	614.5	488.5
35°	1111.7	1117.2	1118.7	1122.0	1125.6	1140.6	1098.6	926.5	730.3	561.2	414.3
37.5°	1240.7	1249.5	1249.5	1261.2	1254.2	1272.5	1157.0	917.7	685.4	487.0	330.6
40°	1403.3	1407.3	1411.3	1412.8	1409.1	1406.9	1195.4	896.2	622.2	393.8	241.9
42.5°	1569.1	1567.7	1568.0	1570.6	1560.7	1519.4	1219.1	858.5	543.6	294.1	173.5
45°	1747.8	1741.6	1739.7	1734.6	1725.9	1638.9	1232.7	805.6	440.2	206.8	136.3
47.5°	1921.7	1914.0	1902.3	1888.1	1871.3	1735.0	1231.2	736.9	337.6	148.0	120.2
50°	2100.0	2086.5	2061.2	2047.4	2018.9	1830.4	1222.8	660.5	243.0	122.4	112.5
52.5°	2303.8	2279.7	2256.3	2228.6	2181.4	1947.6	1210.0	574.7	177.2	112.2	107.4
55°	2607.8	2568.3	2530.0	2472.3	2426.6	2104.7	1188.5	482.2	139.9	108.1	104.5
57.5°	3026.8	2959.6	2911.0	2833.2	2760.1	2322.1	1165.4	398.2	124.9	107.0	103.0
60°	3498.5	3397.3	3306.7	3211.0	3127.7	2593.5	1153.4	332.5	121.7	108.1	103.4
62.5°	3794.4	3675.0	3561.7	3444.8	3325.0	2723.2	1101.1	287.2	123.1	112.9	106.3
65°	3757.2	3625.3	3502.2	3359.7	3246.8	2600.9	968.2	243.0	125.7	121.3	114.4
67°	3505.8	3377.9	3237.6	3098.1	2988.5	2368.1	817.3	204.6	128.6	130.8	123.1
67.5°	3438.6	3294.6	3153.3	3025.0	2906.3	2296.2	777.8	195.1	129.3	133.3	126.0
70°	2867.6	2753.6	2588.1	2493.1	2407.2	1861.4	580.2	151.6	131.5	144.7	139.9
72.5°	2006.4	1896.1	1809.5	1757.7	1707.6	1352.5	408.1	120.9	128.2	150.9	146.1
75°	1013.5	988.2	957.9	941.1	941.8	786.2	245.9	103.0	120.6	144.7	132.6
77.5°	200.2	195.1	197.3	215.9	212.6	242.2	122.0	87.3	102.7	111.4	95.4
80°	96.8	93.5	90.6	89.9	88.0	84.4	76.7	72.7	83.3	73.4	63.2
82.5°	62.8	59.2	57.7	54.8	55.2	59.9	66.9	69.8	67.6	50.8	42.7
85°	35.4	35.1	34.3	35.1	36.5	47.9	71.6	65.4	54.4	35.8	32.1
87.5°	21.2	20.1	20.5	20.8	21.6	35.4	56.6	47.1	34.7	18.6	19.0
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):**

	155°	165°	175°	180°
0°	576.9	576.9	576.9	576.9
2.5°	560.4	559.0	559.0	558.6
5°	551.3	549.1	548.7	548.7
7.5°	549.8	546.9	546.5	545.5
10°	556.4	555.3	555.7	554.6
12.5°	577.2	578.7	580.2	580.2
15°	609.0	607.9	609.8	607.9
17.5°	632.4	622.9	620.7	619.6
20°	633.1	613.4	606.8	605.7
22.5°	610.5	581.3	570.3	568.5
25°	572.1	535.2	521.3	519.9
27.5°	523.9	482.6	462.2	461.4
30°	465.8	416.9	390.9	386.9
32.5°	394.9	336.8	309.4	300.7
35°	313.1	253.5	228.0	227.2
37.5°	233.8	187.4	171.0	170.2
40°	171.3	147.2	141.0	139.9
42.5°	139.9	130.1	127.5	126.4
45°	125.3	121.3	119.8	118.7
47.5°	116.5	114.0	112.9	112.9
50°	109.6	108.9	108.1	108.1
52.5°	104.9	104.5	103.8	103.4
55°	100.8	99.4	99.7	99.4
57.5°	98.3	96.1	96.1	96.1
60°	96.8	92.8	92.8	93.2
62.5°	97.2	91.0	90.6	90.6
65°	100.1	89.9	87.7	88.0
67°	103.8	88.8	84.4	84.0
67.5°	104.9	88.0	83.3	82.9
70°	109.2	85.9	77.8	77.1
72.5°	110.0	82.6	72.3	71.6
75°	102.3	78.2	68.0	66.1
77.5°	79.6	67.2	61.4	61.4
80°	55.9	51.5	43.8	43.5
82.5°	40.9	38.7	32.1	31.4
85°	30.0	28.1	23.7	23.7
87.5°	18.6	17.9	15.3	14.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)