

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: P163246

Luminaire Tested: **LDRL-SL2-E03-E-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P163246  
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-E03-E-7030-HSS  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4873.3 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - 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

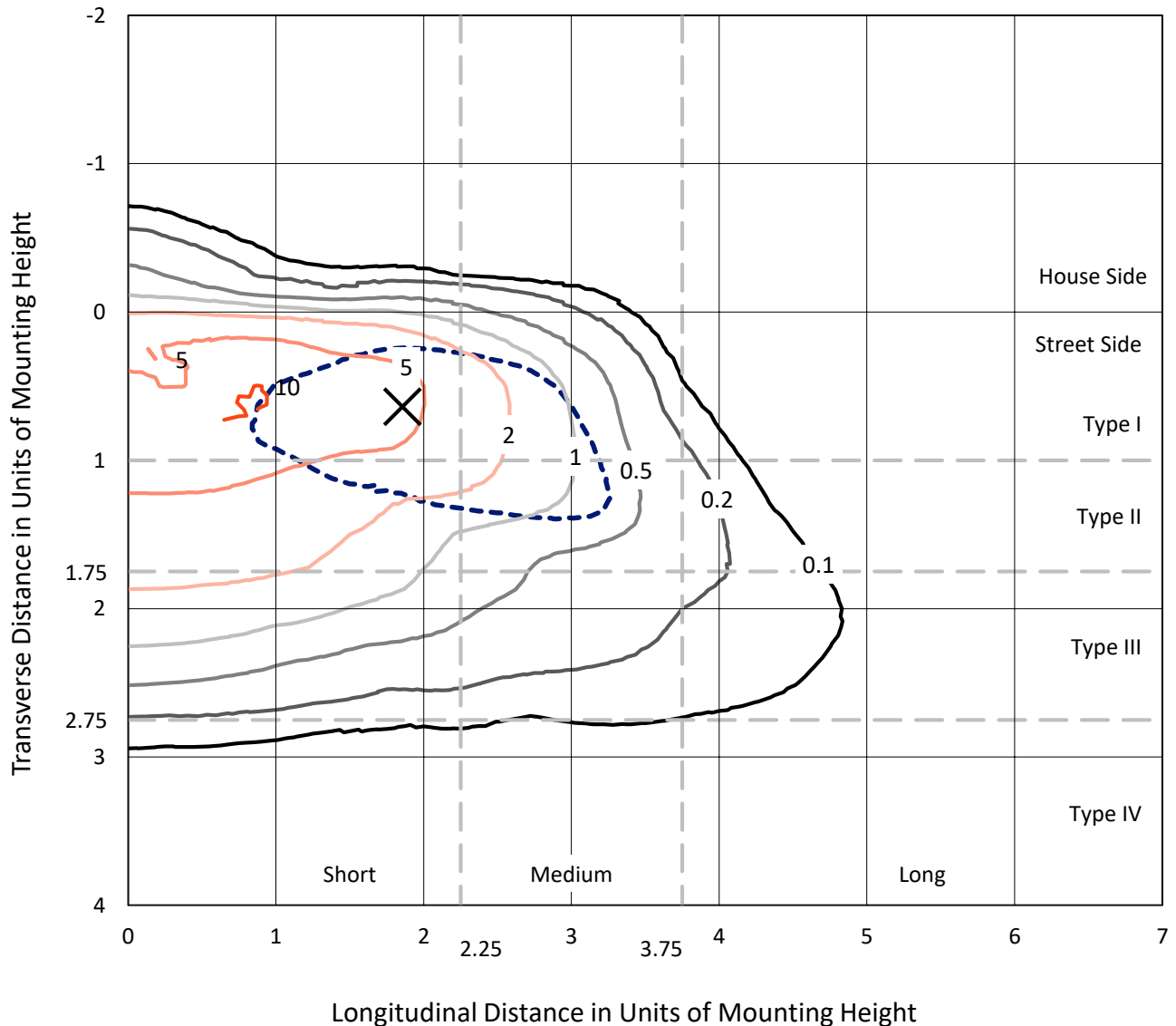


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### Iso-Footcandle Lines of Horizontal Illumination

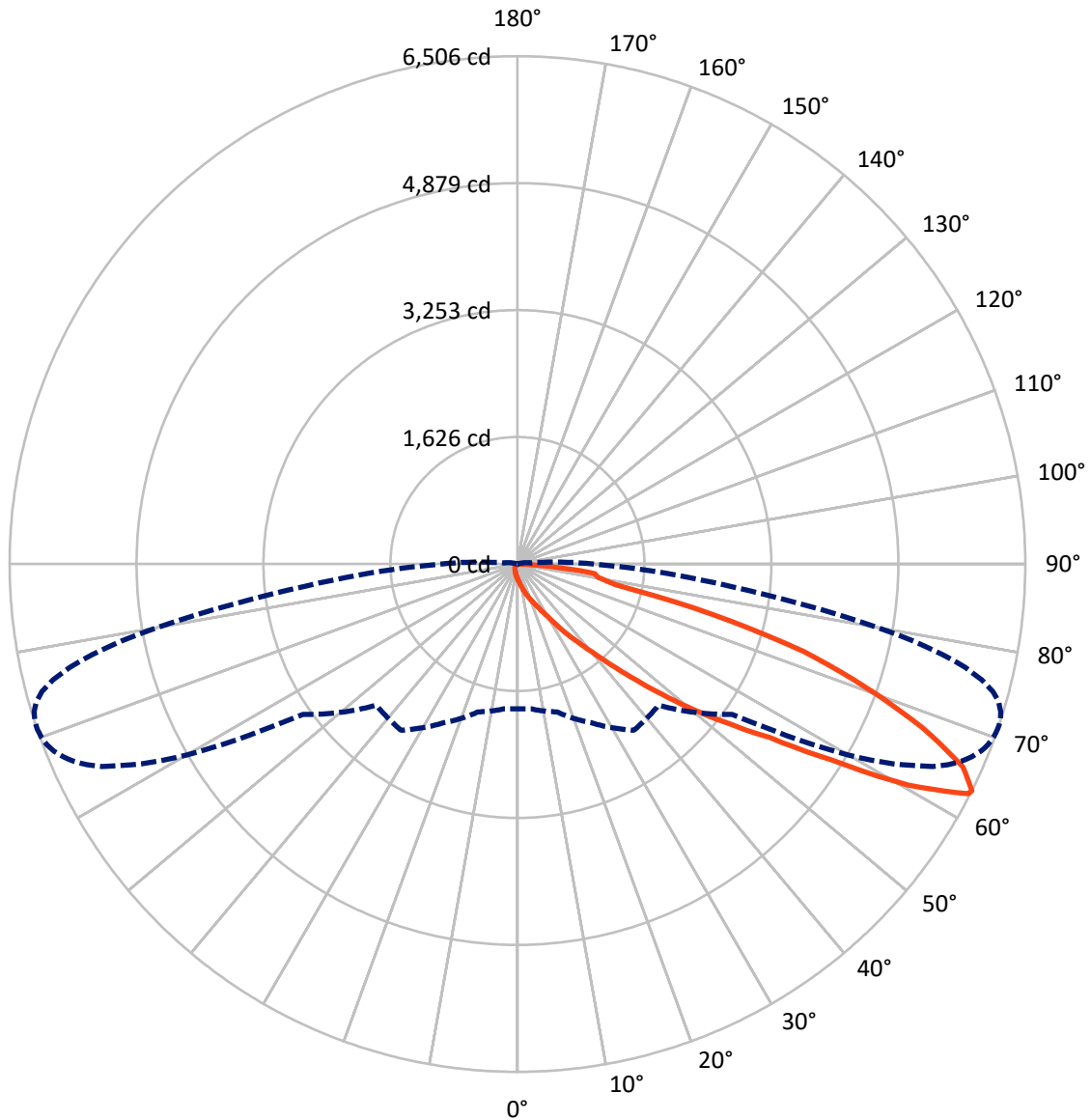
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 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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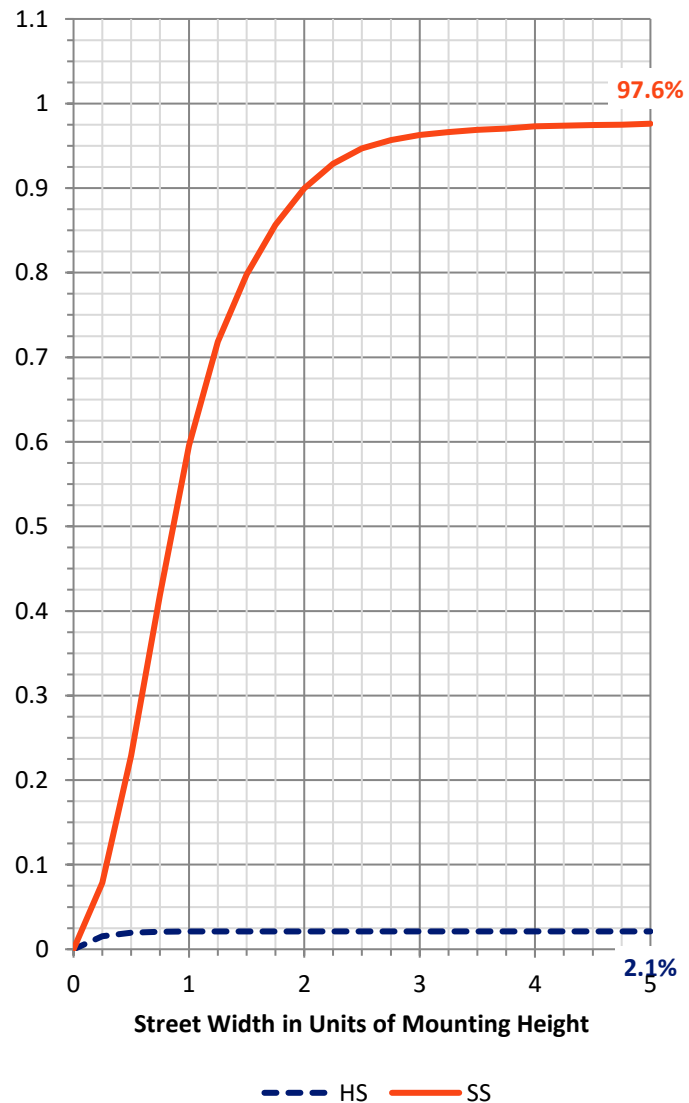
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	103.5	0.0	103.5
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	4769.8	0.0	4769.8
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	4873.3	0.0	4873.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.7	0.4
10°-20°	80.1	1.6
20°-30°	162.8	3.3
30°-40°	397.6	8.2
40°-50°	889.3	18.2
50°-60°	1250.4	25.7
60°-70°	1470.4	30.2
70°-80°	531.0	10.9
80°-90°	71.0	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°	4873.3	100.0
0°-180°	4873.3	100.0



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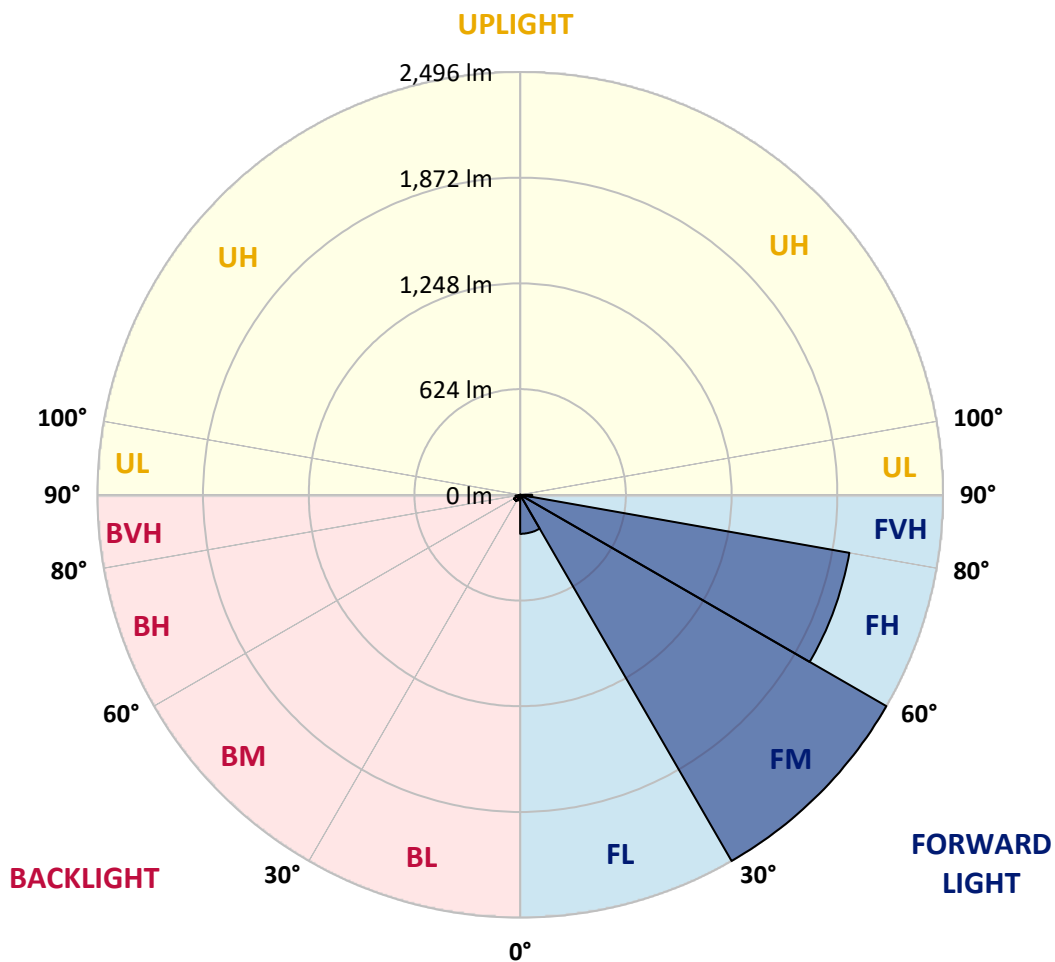
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.3	4.7			
FM (30°-60°)	2495.7	51.2			
FH (60°-80°)	1973.0	40.5			G2/5000
FVH (80°-90°)	70.8	1.5			G1/100
BL (0°-30°)	33.3	0.7	B0/110		
BM (30°-60°)	41.7	0.9	B0/220		
BH (60°-80°)	28.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	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°	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9
2.5°	244.5	247.2	245.4	241.0	235.6	228.6	222.4	222.4	221.5	218.8	219.7
5°	320.7	321.6	318.1	307.4	297.7	282.6	265.8	264.0	262.2	259.6	258.7
7.5°	395.1	398.7	395.1	383.6	364.1	341.1	314.5	311.9	306.6	306.6	303.0
10°	471.3	471.3	467.8	454.5	436.8	404.0	370.3	365.9	359.7	357.9	352.6
12.5°	525.4	525.4	523.6	516.5	502.3	473.1	432.3	427.9	419.9	417.3	411.1
15°	546.6	546.6	547.5	553.7	554.6	541.3	498.8	495.2	487.3	480.2	477.5
17.5°	559.9	559.0	559.0	567.9	583.9	592.7	565.2	561.7	552.8	549.3	540.4
20°	589.2	587.4	582.0	582.0	597.1	628.1	628.1	627.3	617.5	614.9	610.4
22.5°	632.6	630.8	614.9	601.6	608.6	647.6	684.0	682.2	678.7	675.1	672.4
25°	703.4	697.2	669.8	630.8	624.6	666.2	726.5	730.9	733.6	733.6	735.3
27.5°	810.6	802.7	754.0	681.3	653.8	696.4	773.4	782.3	790.3	792.0	800.0
30°	959.5	945.3	875.3	769.0	706.1	740.6	842.5	852.3	863.8	867.3	879.7
32.5°	1204.0	1196.0	1128.7	969.2	834.6	827.5	939.1	951.5	966.6	972.8	987.8
35°	1576.1	1577.9	1522.9	1379.4	1193.3	1095.9	1111.9	1122.5	1127.8	1146.4	1154.4
37.5°	1828.6	1833.0	1845.4	1788.7	1655.8	1556.6	1431.7	1443.2	1415.7	1418.4	1419.3
40°	1966.8	1980.9	2053.6	2108.5	2097.9	2040.3	1940.2	1946.4	1895.0	1883.5	1827.7
42.5°	2058.9	2077.5	2193.6	2363.7	2450.5	2502.8	2479.7	2477.1	2437.2	2422.2	2375.2
45°	2116.5	2133.3	2279.5	2530.3	2730.5	2882.9	2945.8	2952.8	2919.2	2904.1	2865.1
47.5°	2113.8	2133.3	2290.1	2592.3	2887.3	3130.9	3308.1	3316.9	3337.3	3324.1	3326.7
50°	1996.9	2015.5	2173.2	2486.8	2841.2	3244.3	3568.6	3596.9	3629.7	3651.8	3662.5
52.5°	1855.2	1868.4	2008.4	2306.1	2644.5	3197.4	3722.7	3771.5	3820.2	3861.8	3891.0
55°	1802.9	1818.0	1927.8	2175.0	2486.8	3000.7	3794.5	3866.3	3935.4	4003.5	4059.4
57.5°	1830.4	1844.5	1923.4	2113.0	2392.9	2793.4	3814.9	3926.5	4039.9	4150.6	4260.5
60°	1931.4	1946.4	2013.7	2170.6	2368.1	2673.7	3735.1	3920.3	4109.0	4302.2	4483.8
62.5°	1891.5	1897.7	1996.9	2271.6	2545.3	2571.9	3445.4	3704.1	3992.0	4289.7	4583.0
63°	1853.4	1860.5	1961.5	2244.1	2599.4	2556.9	3356.0	3628.8	3932.7	4253.4	4572.3
65°	1680.6	1681.5	1758.6	1981.8	2539.1	2583.4	2957.3	3217.8	3566.8	3951.3	4354.4
67.5°	1254.5	1248.3	1322.7	1492.8	1993.4	2584.3	2538.2	2684.4	2927.1	3268.2	3629.7
70°	444.8	435.0	555.5	791.2	1242.1	2113.8	2181.2	2190.9	2258.2	2442.5	2669.4
72.5°	144.4	147.1	177.2	289.7	572.3	1422.8	1974.8	1944.6	1926.9	1926.0	1956.2
75°	57.6	58.5	70.9	128.5	256.9	685.7	1729.4	1746.2	1752.4	1761.2	1771.0
77.5°	27.5	30.1	39.8	71.7	127.6	339.3	1237.7	1380.3	1461.8	1524.7	1562.8
80°	9.8	11.5	22.1	44.3	59.3	155.9	652.1	786.7	906.3	1060.5	1193.3
82.5°	0.0	0.0	4.4	31.0	32.8	62.9	267.5	313.6	358.8	465.1	597.1
85°	0.0	0.0	0.0	8.9	9.8	10.6	90.4	108.9	122.3	142.6	164.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6	5.3	13.3	20.4
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9
2.5°	217.9	217.1	217.1	215.3	214.4	212.6	211.8	209.1	208.2	208.2	208.2
5°	257.8	254.3	252.5	248.1	245.4	244.5	240.1	238.3	235.6	236.5	232.1
7.5°	302.1	295.9	293.2	287.0	285.3	279.0	277.3	272.9	270.2	264.9	263.1
10°	350.8	342.8	338.5	328.7	326.0	321.6	316.3	310.9	306.6	301.2	298.6
12.5°	406.6	399.6	396.0	382.7	376.5	370.3	363.2	356.2	349.1	344.6	338.5
15°	472.2	460.7	457.2	444.8	434.1	426.1	416.4	407.6	402.2	393.4	387.2
17.5°	536.9	525.4	522.7	504.1	492.6	487.3	476.7	465.1	455.4	446.5	436.8
20°	601.6	593.6	586.5	568.8	556.4	547.5	533.3	521.8	513.9	501.4	489.0
22.5°	666.2	658.3	653.0	634.3	622.8	610.4	598.0	585.6	574.1	559.0	544.8
25°	732.7	727.4	724.7	707.9	697.2	685.7	673.3	659.1	645.0	628.1	613.1
27.5°	801.8	803.5	798.2	794.7	783.2	775.2	755.7	746.0	735.3	714.9	696.4
30°	889.5	894.8	893.0	895.7	888.6	883.3	868.2	855.8	843.4	823.9	802.7
32.5°	1000.2	1007.3	1010.9	1020.6	1017.1	1015.3	1010.9	993.2	984.3	950.6	941.8
35°	1171.2	1167.6	1182.7	1190.7	1187.2	1185.4	1180.1	1170.3	1159.7	1135.8	1113.6
37.5°	1393.6	1397.2	1402.5	1386.5	1375.9	1375.0	1359.0	1349.3	1334.2	1307.7	1281.1
40°	1801.1	1779.0	1754.2	1686.8	1657.6	1640.7	1593.8	1580.5	1554.8	1518.5	1491.0
42.5°	2330.9	2308.8	2234.3	2121.8	2061.6	1978.3	1940.2	1893.3	1856.9	1797.6	1765.7
45°	2857.2	2793.4	2784.5	2653.4	2579.0	2469.1	2400.9	2322.0	2239.7	2161.7	2105.0
47.5°	3301.0	3286.9	3243.5	3163.7	3094.6	3002.4	2914.8	2793.4	2708.3	2597.6	2495.7
50°	3656.3	3655.4	3639.4	3593.4	3535.8	3461.4	3384.3	3281.5	3185.0	3049.4	2940.5
52.5°	3922.1	3936.2	3941.6	3927.4	3905.2	3839.7	3800.7	3714.7	3633.3	3518.1	3400.2
55°	4117.0	4169.3	4195.8	4225.9	4219.7	4196.7	4194.9	4139.1	4101.9	4010.7	3927.4
57.5°	4357.9	4443.9	4526.3	4672.4	4677.8	4729.2	4755.7	4782.3	4789.4	4753.1	4725.6
60°	4664.5	4839.9	4995.8	5301.5	5381.2	5507.0	5588.5	5677.1	5752.4	5758.6	5756.8
62.5°	4880.6	5150.9	5402.4	5856.1	6011.1	6156.4	6265.3	6351.3	6403.6	6456.7	6481.5
63°	4886.8	5182.8	5450.3	5918.1	6081.1	6219.3	6322.9	6402.7	6457.6	6489.5	6505.5
65°	4737.1	5095.9	5414.9	5880.9	6034.1	6173.2	6227.3	6279.5	6306.1	6318.5	6271.6
67.5°	4015.1	4365.9	4738.0	5258.9	5390.1	5556.6	5600.9	5627.5	5639.9	5637.2	5597.4
70°	3002.4	3296.6	3710.3	4305.7	4479.3	4642.3	4743.3	4786.8	4800.9	4796.5	4737.1
72.5°	2096.1	2268.9	2610.0	3272.7	3509.2	3718.3	3843.2	3907.9	3921.2	3894.6	3839.7
75°	1760.4	1769.3	1846.3	2208.6	2430.2	2653.4	2794.2	2835.0	2808.4	2727.8	2587.8
77.5°	1571.6	1591.1	1591.1	1645.2	1688.6	1750.6	1763.9	1664.7	1549.5	1400.7	1280.2
80°	1318.3	1386.5	1434.4	1474.2	1478.6	1466.3	1433.4	1377.6	1289.0	1175.6	1049.8
82.5°	800.9	935.6	990.5	1196.0	1297.0	1365.3	1359.9	1285.5	1218.2	1100.3	993.2
85°	202.0	217.9	236.5	307.4	344.6	420.8	468.7	490.8	498.8	458.0	414.6
87.5°	19.5	13.3	22.1	16.8	23.9	17.7	23.9	22.1	27.5	29.2	31.9
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9
2.5°	206.4	205.6	204.6	203.8	202.9	202.0	200.2	200.2	198.4	197.6	196.7
5°	229.5	227.7	226.8	225.0	222.4	220.6	217.9	214.4	211.8	210.9	209.1
7.5°	258.7	254.3	252.5	249.8	246.3	241.0	237.5	234.8	230.3	227.7	222.4
10°	291.5	287.0	281.7	276.4	271.1	264.9	260.5	256.9	249.8	246.3	240.1
12.5°	333.1	325.1	318.9	311.9	304.7	297.7	292.4	281.7	275.5	267.5	262.2
15°	375.7	368.5	361.5	352.6	342.0	330.5	325.1	315.4	307.4	295.0	287.9
17.5°	427.0	413.7	403.1	392.5	382.7	372.1	361.5	346.4	334.9	324.3	310.1
20°	477.5	461.6	450.1	435.9	421.7	404.9	392.5	381.9	365.9	351.7	336.6
22.5°	531.6	515.6	497.0	482.9	463.3	450.1	433.2	415.5	399.6	381.0	362.3
25°	597.1	580.3	559.0	540.4	518.3	499.7	479.3	458.9	439.4	418.2	394.2
27.5°	677.7	660.0	637.0	614.9	585.6	562.6	543.1	515.6	490.8	464.2	436.8
30°	779.7	760.1	731.8	699.9	670.7	645.0	617.5	581.2	553.7	521.8	486.4
32.5°	912.5	889.5	851.4	821.2	785.0	751.3	713.2	676.8	637.9	596.2	555.5
35°	1080.0	1058.7	1014.4	970.1	930.2	890.4	842.5	800.9	746.0	695.5	643.2
37.5°	1253.6	1215.5	1174.8	1126.9	1077.3	1029.4	971.0	913.4	850.5	795.6	730.0
40°	1452.1	1406.0	1372.3	1320.9	1250.9	1182.7	1128.7	1056.9	978.1	904.5	827.5
42.5°	1724.0	1672.6	1612.4	1534.4	1484.0	1404.2	1334.2	1249.2	1145.5	1063.1	970.1
45°	2038.5	1968.6	1910.1	1834.8	1773.6	1674.4	1592.9	1479.5	1375.9	1267.8	1154.4
47.5°	2397.4	2310.5	2225.5	2151.0	2053.6	1956.2	1852.5	1732.0	1599.1	1480.4	1345.7
50°	2809.3	2686.2	2568.4	2472.7	2338.9	2226.3	2113.8	1978.3	1831.2	1694.8	1541.6
52.5°	3267.3	3124.7	2968.8	2821.7	2666.7	2522.3	2386.7	2230.8	2066.9	1900.3	1729.4
55°	3820.2	3713.0	3529.6	3342.6	3135.3	2942.2	2767.7	2574.6	2375.2	2156.4	1976.5
57.5°	4685.8	4633.5	4480.2	4293.3	4023.1	3788.3	3492.4	3255.8	2967.0	2665.8	2433.7
60°	5858.7	5794.1	5708.1	5556.6	5342.2	5023.3	4697.3	4329.6	3890.2	3472.9	3076.9
62.5°	6484.2	6461.1	6391.2	6286.6	6086.4	5834.8	5506.1	5102.1	4606.0	4099.2	3594.2
63°	6502.8	6473.6	6413.3	6307.0	6130.7	5887.1	5564.6	5172.1	4686.6	4170.1	3654.5
65°	6251.2	6239.7	6178.5	6062.5	5942.0	5756.0	5506.1	5168.6	4761.1	4272.9	3760.0
67.5°	5544.2	5509.6	5415.8	5380.3	5296.1	5166.8	4976.3	4744.2	4452.7	4069.1	3626.1
70°	4689.3	4637.9	4520.0	4457.2	4354.4	4272.9	4156.8	3991.2	3811.3	3543.8	3213.3
72.5°	3783.0	3676.7	3568.6	3404.7	3261.2	3115.9	2987.4	2870.4	2672.9	2564.8	2314.1
75°	2456.7	2263.6	2078.4	1830.4	1607.1	1409.5	1217.3	1119.8	916.9	834.6	716.7
77.5°	1165.9	1057.8	912.5	800.0	656.5	536.0	437.6	328.7	257.8	202.0	154.2
80°	940.9	849.6	761.9	660.0	552.0	440.3	337.5	252.5	179.0	124.0	87.7
82.5°	839.0	739.8	631.7	561.7	488.2	399.6	327.8	267.5	197.6	144.4	98.3
85°	326.0	274.7	211.8	172.7	134.6	110.8	100.1	69.1	54.0	42.5	32.8
87.5°	28.3	23.0	18.6	12.4	13.3	7.1	7.9	5.3	4.4	4.4	3.6
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9
2.5°	195.8	194.9	194.0	192.2	192.2	190.5	189.6	188.7	184.3	174.5	166.5
5°	205.6	203.8	202.0	199.3	197.6	194.9	193.1	190.5	180.7	162.1	146.2
7.5°	219.7	216.2	213.5	208.2	205.6	202.0	199.3	194.9	179.0	150.6	128.5
10°	236.5	230.3	225.9	219.7	214.4	209.9	205.6	199.3	177.2	138.2	112.5
12.5°	256.9	249.8	241.0	233.9	226.8	220.6	214.4	206.4	174.5	127.6	100.1
15°	277.3	266.7	260.5	250.7	241.0	232.1	223.3	216.2	175.4	116.1	89.5
17.5°	300.3	289.7	276.4	265.8	255.2	243.6	233.0	218.8	171.0	107.2	81.5
20°	322.5	307.4	295.0	281.7	266.7	252.5	239.2	226.8	167.4	98.3	74.4
22.5°	346.4	328.7	312.7	295.9	277.3	261.3	245.4	229.5	161.2	90.4	68.2
25°	375.7	355.3	332.2	311.9	292.4	272.9	252.5	233.0	155.0	83.3	63.8
27.5°	411.1	384.5	361.5	335.8	308.3	283.5	261.3	240.1	148.8	78.0	59.3
30°	456.3	425.3	392.5	359.7	330.5	302.1	271.1	244.5	142.6	72.7	54.9
32.5°	516.5	477.5	437.6	399.6	360.6	324.3	291.5	256.9	139.1	68.2	50.5
35°	596.2	545.8	497.0	449.1	402.2	357.9	315.4	276.4	139.1	62.9	45.2
37.5°	671.5	613.1	551.1	491.7	435.9	384.5	334.0	287.0	132.0	58.5	40.8
40°	753.1	683.0	610.4	540.4	473.1	409.3	351.7	297.7	125.8	53.2	36.3
42.5°	878.0	789.4	694.6	613.1	532.4	453.6	381.9	318.1	117.8	47.8	31.9
45°	1041.9	929.4	817.7	718.5	615.7	519.2	434.1	355.3	116.1	43.4	27.5
47.5°	1217.3	1084.4	953.3	826.6	706.1	593.6	491.7	396.9	116.1	39.0	23.9
50°	1391.8	1225.2	1085.3	938.2	802.7	669.8	548.4	440.3	116.9	35.5	19.5
52.5°	1549.5	1371.5	1214.6	1044.5	894.8	740.6	608.6	482.9	115.2	31.0	15.9
55°	1768.3	1559.3	1377.6	1189.8	1014.4	840.8	691.0	546.6	116.1	27.5	13.3
57.5°	2171.4	1926.0	1707.2	1460.9	1258.9	1034.8	853.1	677.7	126.7	23.0	9.8
60°	2750.0	2431.0	2123.6	1823.3	1566.3	1299.7	1064.0	857.6	148.8	18.6	7.1
62.5°	3138.9	2721.6	2354.9	2023.5	1724.9	1445.9	1188.9	954.1	163.9	15.1	4.4
63°	3178.7	2747.3	2378.7	2036.8	1732.0	1452.9	1194.2	961.3	164.8	14.2	4.4
65°	3254.1	2791.6	2392.1	2039.4	1724.9	1443.2	1190.7	960.3	166.5	11.5	3.6
67.5°	3168.1	2723.4	2315.0	1963.2	1662.9	1385.6	1146.4	924.9	165.7	7.9	2.6
70°	2833.2	2464.7	2105.9	1778.1	1505.2	1254.5	1043.6	843.4	152.4	5.3	1.8
72.5°	2080.2	1829.5	1551.3	1314.7	1134.0	941.8	803.5	633.4	117.8	3.6	0.9
75°	616.6	561.7	472.2	416.4	367.7	303.9	270.2	210.9	60.2	1.8	0.0
77.5°	123.1	111.6	100.1	91.2	85.9	73.5	70.0	57.6	24.8	0.9	0.0
80°	64.7	53.2	45.2	39.8	34.5	28.3	23.9	19.5	4.4	0.0	0.0
82.5°	62.0	41.6	30.1	24.8	21.3	16.8	13.3	9.8	2.6	0.0	0.0
85°	23.0	17.7	13.3	10.6	8.9	7.9	6.2	5.3	0.0	0.0	0.0
87.5°	3.6	2.6	2.6	1.8	1.8	0.9	0.9	0.9	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°	186.9	186.9	186.9	186.9	186.9	186.9	186.9
2.5°	158.6	151.5	148.0	143.5	143.5	142.6	144.4
5°	132.0	122.3	115.2	109.9	110.8	108.1	108.9
7.5°	111.6	101.9	95.7	92.1	91.2	90.4	90.4
10°	96.6	87.7	82.4	79.7	78.9	78.9	78.9
12.5°	85.9	77.1	72.7	70.9	70.9	70.0	70.0
15°	77.1	70.0	65.5	63.8	63.8	62.9	63.8
17.5°	70.0	62.9	59.3	57.6	57.6	56.7	56.7
20°	63.8	57.6	54.0	51.4	51.4	50.5	51.4
22.5°	58.5	52.3	47.8	46.1	45.2	44.3	45.2
25°	53.2	47.0	42.5	39.8	39.0	39.0	38.1
27.5°	48.7	42.5	37.2	34.5	33.6	33.6	32.8
30°	44.3	37.2	31.9	29.2	28.3	28.3	28.3
32.5°	39.8	31.9	27.5	24.8	23.9	23.9	23.9
35°	35.5	27.5	23.0	20.4	19.5	19.5	19.5
37.5°	30.1	23.0	17.7	15.9	15.1	14.2	14.2
40°	25.7	17.7	13.3	11.5	9.8	9.8	9.8
42.5°	21.3	14.2	9.8	7.1	6.2	5.3	6.2
45°	17.7	10.6	6.2	3.6	2.6	2.6	2.6
47.5°	14.2	7.1	2.6	0.9	0.9	0.9	0.9
50°	10.6	4.4	0.9	0.0	0.0	0.9	0.9
52.5°	7.9	2.6	0.0	0.0	0.0	0.0	0.0
55°	4.4	0.9	0.0	0.0	0.0	0.0	0.0
57.5°	2.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.9	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)