

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: P196725

Luminaire Tested: **NAV-AF-03-D-UNV-SLR-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P196725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-AF-03-D-UNV-SLR-7030-1200  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16973.4 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

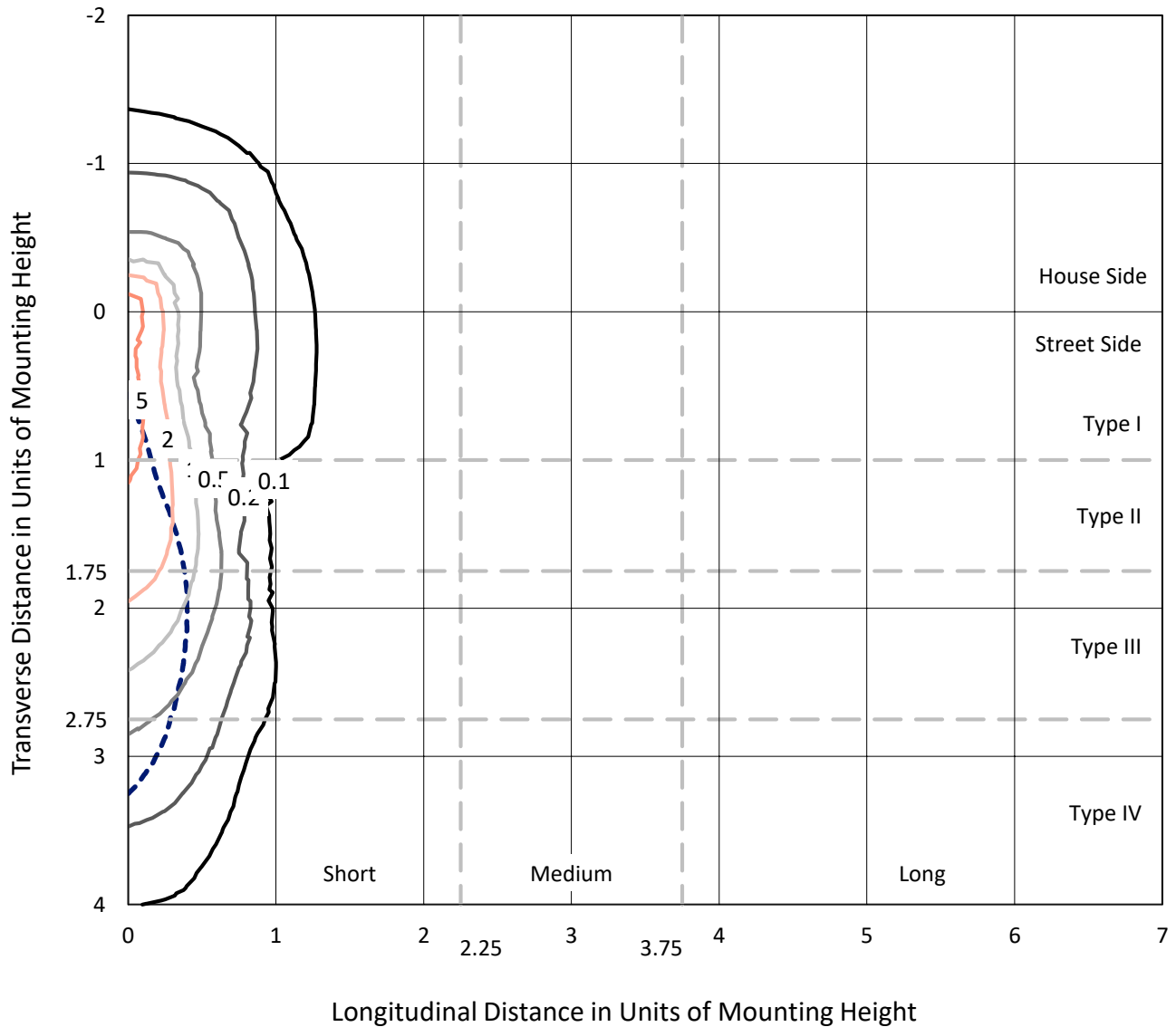
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

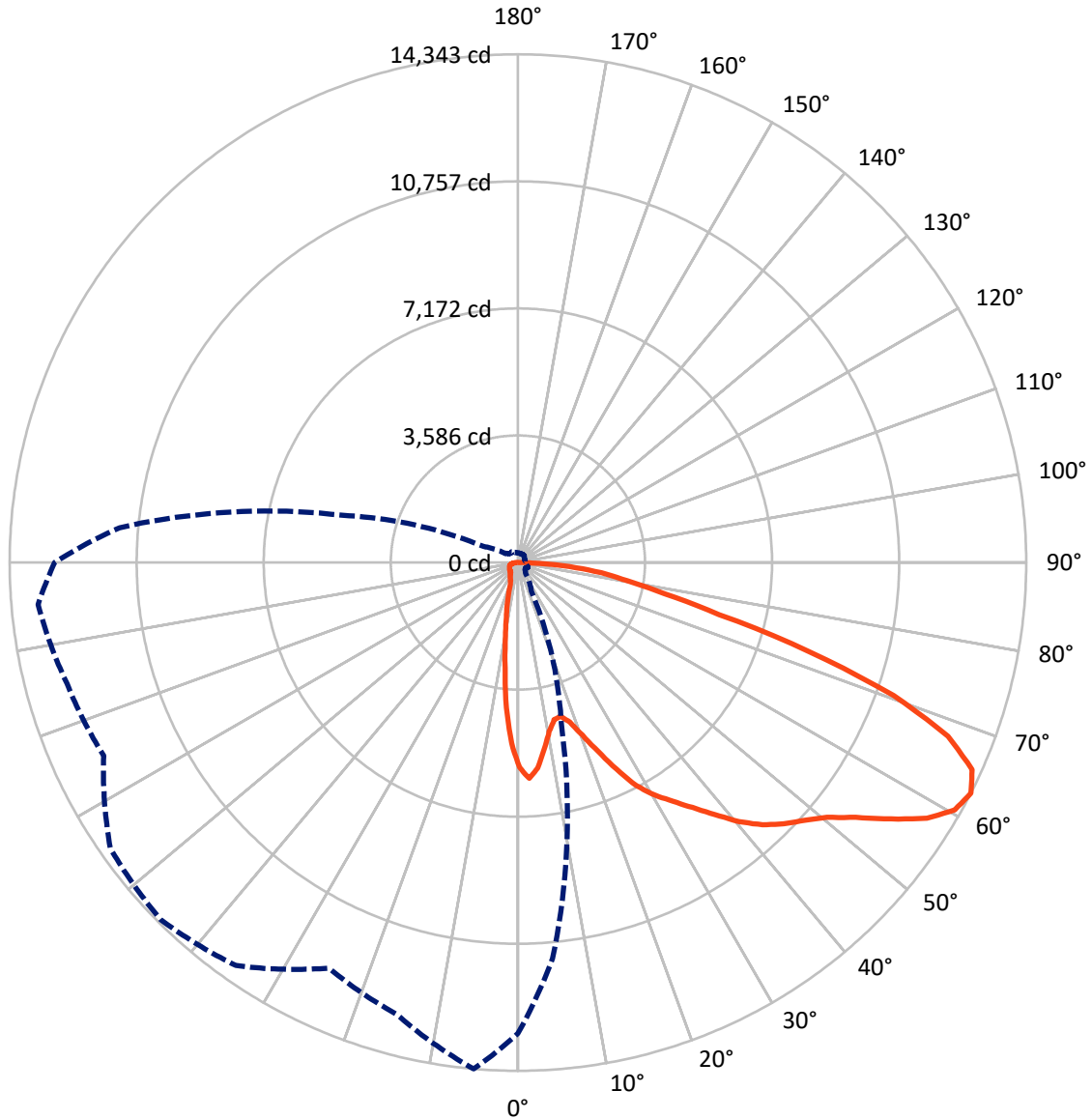
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3006.9	0.0	3006.9
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	13966.5	0.0	13966.5
	% Fixture	82.3	0.0	82.3
<b>Total</b>	Lumens	16973.4	0.0	16973.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.8	2.5
10°-20°	768.6	4.5
20°-30°	1105.5	6.5
30°-40°	1693.2	10.0
40°-50°	2475.5	14.6
50°-60°	3601.9	21.2
60°-70°	4173.2	24.6
70°-80°	2175.4	12.8
80°-90°	559.2	3.3
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°	16973.4	100.0
0°-180°	16973.4	100.0

**Coefficient of Utilization**



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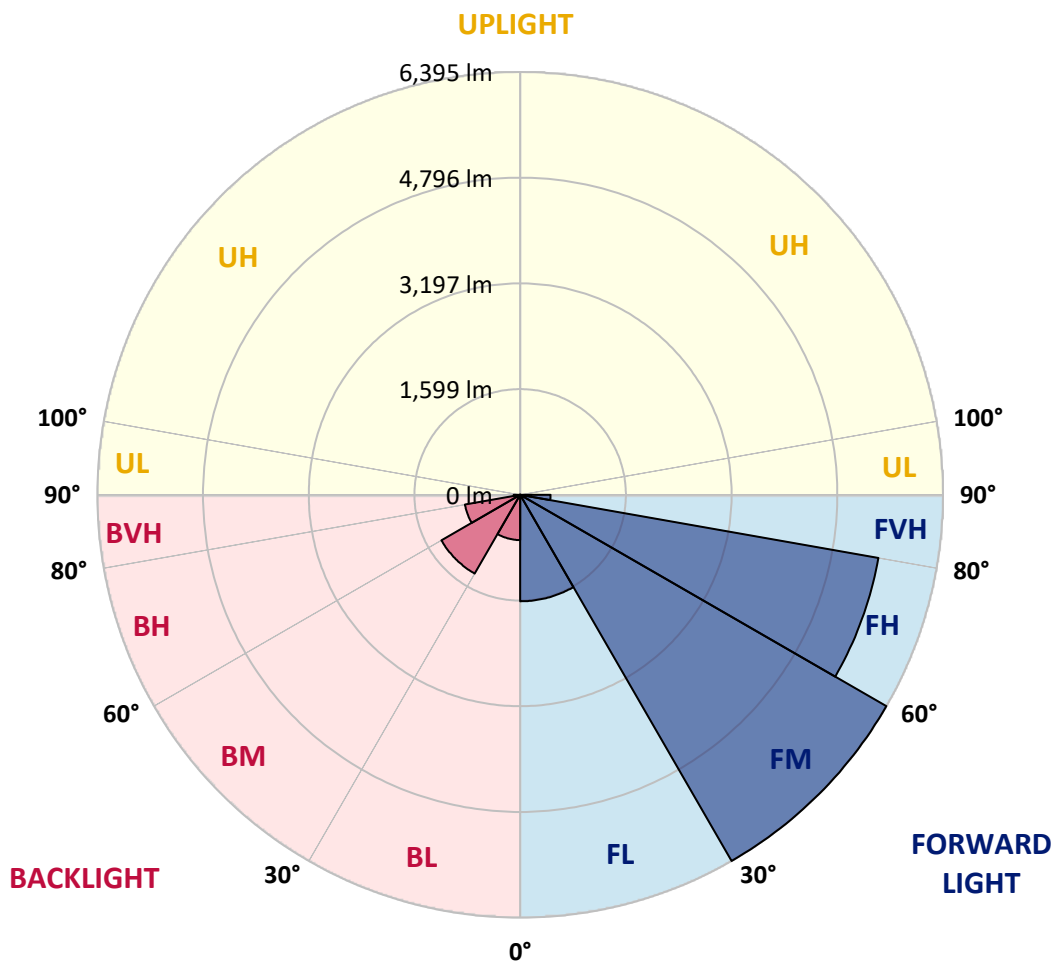
CATALOG NUMBER: NAV-AF-03-D-UNV-SLR-7030-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1610.9	9.5			
FM	(30°-60°)	6394.8	37.7			
FH	(60°-80°)	5500.8	32.4			G3/7500
FVH	(80°-90°)	460.0	2.7			G3/500
BL	(0°-30°)	684.1	4.0	B2/1000		
BM	(30°-60°)	1375.7	8.1	B2/2500		
BH	(60°-80°)	847.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	99.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6
2.5°	5973.6	5889.9	5696.8	5526.9	5315.3	5156.5	4963.2	4861.2	4786.1	4735.7	4695.0
5°	5579.9	5378.0	5008.8	4685.1	4335.6	4083.3	3788.0	3626.8	3527.1	3473.0	3448.3
7.5°	4995.3	4728.2	4250.7	3816.3	3379.4	3064.4	2840.4	2601.6	2474.8	2392.4	2365.4
10°	4484.5	4183.0	3613.2	3124.7	2787.4	2563.4	2371.5	2152.4	1989.9	1848.4	1795.5
12.5°	4187.9	3837.1	3187.4	2745.5	2462.6	2222.6	2019.5	1783.2	1612.1	1464.5	1408.0
15°	4125.2	3733.8	3009.0	2504.4	2157.4	1868.2	1624.4	1367.3	1199.8	1078.1	1038.7
17.5°	4314.7	3832.3	2933.9	2284.1	1865.7	1512.4	1212.2	936.6	797.5	731.1	715.0
20°	4704.8	4048.9	2898.2	2086.0	1582.6	1164.1	838.1	636.2	567.4	547.6	546.4
22.5°	5218.0	4400.9	2937.6	1923.5	1316.8	859.0	614.1	523.1	494.7	483.7	483.7
25°	5797.7	4877.2	3042.3	1799.3	1083.0	668.2	529.2	479.9	456.6	445.4	446.8
27.5°	6506.5	5456.7	3184.9	1684.8	915.6	585.8	494.7	452.9	429.5	418.5	419.7
30°	7040.6	5955.1	3308.1	1580.2	829.5	552.6	476.3	436.9	411.1	395.1	393.8
32.5°	7540.3	6394.5	3407.7	1505.1	780.2	493.6	430.7	401.2	379.0	360.5	356.8
35°	8092.9	6808.1	3454.4	1502.7	748.2	445.4	393.8	358.2	336.0	315.1	311.4
37.5°	8719.2	7313.9	3493.9	1517.4	731.1	414.7	376.6	342.1	323.6	302.7	297.8
40°	9371.5	7808.5	3524.6	1529.7	728.5	393.8	363.1	332.2	313.8	291.6	286.7
42.5°	9931.4	8246.7	3566.4	1524.8	711.3	390.2	354.4	323.6	306.5	284.3	278.2
45°	10379.4	8595.0	3631.7	1523.5	685.5	398.7	352.0	321.2	300.3	276.9	271.9
47.5°	10796.6	8987.5	3769.6	1518.6	657.2	396.3	365.5	318.7	297.8	274.5	270.8
50°	11274.1	9515.5	4004.6	1481.7	617.8	379.0	390.2	316.3	291.6	270.8	267.0
52.5°	11938.6	10288.4	4352.9	1415.2	563.7	360.5	393.8	315.1	281.8	263.4	258.4
55°	12720.2	11116.6	4728.2	1319.3	492.2	328.6	374.1	310.1	271.9	252.3	244.8
57.5°	13324.3	11728.2	4990.3	1181.4	422.1	310.1	333.5	299.1	259.7	240.0	233.9
60°	13494.2	11755.3	5037.1	1016.5	386.4	297.8	286.7	326.1	249.8	228.9	222.8
62.5°	13291.2	11217.5	4731.9	900.9	374.1	285.5	260.9	311.4	240.0	219.1	212.9
65°	12689.4	10309.2	4048.9	883.6	386.4	274.5	247.4	248.6	230.1	209.2	203.1
67.5°	11284.0	8972.8	3190.0	894.8	401.2	263.4	237.5	226.5	219.1	200.6	193.2
70°	9177.0	7224.0	2513.0	914.4	414.7	248.6	225.2	211.6	205.5	185.8	182.1
72.5°	7069.0	5781.7	1982.6	900.9	428.3	233.9	208.0	196.8	189.6	171.1	167.3
75°	5019.9	4594.1	1457.1	772.9	392.6	212.9	188.3	178.4	172.3	152.6	151.4
77.5°	3618.1	3440.9	1014.0	580.8	310.1	187.1	166.2	157.6	153.8	131.6	131.6
80°	2885.9	2618.8	606.7	379.0	226.5	155.0	139.1	135.4	131.6	109.5	110.8
82.5°	2073.6	1816.4	387.7	236.3	166.2	118.1	108.2	107.1	100.9	81.2	81.2
85°	1063.3	927.9	248.6	158.8	116.9	76.3	71.3	69.0	65.2	50.5	50.5
87.5°	206.7	284.3	137.8	77.6	56.6	27.1	27.1	23.4	27.1	18.5	19.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6
2.5°	4772.6	4747.9	4730.7	4722.0	4846.3	4898.1	4957.1	5042.0	5099.9	5075.2	5154.0
5°	3564.0	3581.2	3620.7	3682.1	3855.6	3938.1	3991.0	4061.1	4111.7	4061.1	4144.9
7.5°	2436.7	2462.6	2546.3	2673.0	2882.3	2974.5	2992.9	2994.2	2983.1	2900.8	2957.3
10°	1794.2	1742.5	1761.0	1852.2	2039.3	2121.7	2130.2	2108.1	2104.5	2071.2	2135.3
12.5°	1390.7	1319.3	1277.5	1292.2	1432.5	1500.1	1511.3	1523.5	1574.0	1590.0	1668.8
15°	1037.4	1000.5	969.7	956.2	1048.6	1101.5	1107.6	1137.2	1190.1	1204.8	1272.6
17.5°	729.8	739.5	755.6	761.7	828.1	862.7	852.9	852.9	861.5	857.8	895.9
20°	557.4	577.2	607.9	637.5	697.8	717.5	692.8	662.1	642.5	632.6	641.2
22.5°	492.2	505.8	525.5	563.7	614.1	624.0	591.9	567.4	548.9	538.9	540.3
25°	456.6	470.2	486.1	516.9	560.0	564.9	535.4	519.3	504.6	494.7	492.2
27.5°	425.8	434.5	444.2	464.0	508.3	510.7	491.0	481.2	471.4	464.0	461.5
30°	397.4	401.2	405.0	424.6	457.8	461.5	451.7	446.8	443.0	438.1	438.1
32.5°	360.5	365.5	371.7	388.9	420.8	425.8	419.7	415.9	409.8	407.3	403.6
35°	316.3	328.6	342.1	363.1	397.4	400.0	392.6	381.6	366.8	363.1	360.5
37.5°	297.8	300.3	317.5	342.1	377.8	380.2	370.4	352.0	340.9	342.1	344.6
40°	285.5	289.2	299.1	323.6	359.4	363.1	354.4	340.9	329.9	331.0	334.8
42.5°	275.7	280.6	286.7	302.7	338.4	345.8	343.4	331.0	320.0	322.5	327.3
45°	270.8	274.5	274.5	285.5	320.0	331.0	332.2	322.5	313.8	316.3	322.5
47.5°	268.2	268.2	264.6	273.2	307.7	318.7	321.2	316.3	311.4	313.8	320.0
50°	264.6	259.7	256.0	263.4	297.8	307.7	310.1	306.5	308.8	313.8	317.5
52.5°	253.5	248.6	248.6	253.5	288.0	297.8	299.1	296.6	301.5	307.7	313.8
55°	240.0	240.0	241.3	246.2	283.1	290.4	289.2	286.7	291.6	299.1	305.2
57.5°	227.7	226.5	232.6	238.7	276.9	281.8	279.3	279.3	283.1	289.2	295.3
60°	220.2	214.1	219.1	228.9	270.8	275.7	271.9	270.8	276.9	281.8	286.7
62.5°	212.9	206.7	210.5	220.2	262.1	265.8	263.4	263.4	269.6	273.2	278.2
65°	201.8	199.4	201.8	211.6	254.8	256.0	256.0	257.2	262.1	264.6	269.6
67.5°	192.0	192.0	193.2	203.1	248.6	246.2	246.2	252.3	253.5	256.0	260.9
70°	179.6	182.1	182.1	194.5	243.6	235.0	236.3	241.3	243.6	246.2	247.4
72.5°	166.2	167.3	169.8	185.8	236.3	224.0	225.2	228.9	230.1	233.9	235.0
75°	151.4	152.6	156.2	177.2	231.4	212.9	210.5	212.9	215.3	217.9	216.6
77.5°	134.2	136.6	140.3	172.3	215.3	210.5	192.0	194.5	196.8	196.8	195.7
80°	113.2	116.9	123.0	164.9	182.1	203.1	171.1	172.3	173.5	173.5	171.1
82.5°	84.9	92.4	100.9	136.6	142.8	173.5	147.7	150.1	146.4	144.0	142.8
85°	55.4	61.5	73.9	94.7	104.6	136.6	121.9	123.0	115.7	114.5	114.5
87.5°	22.2	23.4	33.3	48.0	62.8	84.9	87.4	89.8	83.7	83.7	86.1
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6
2.5°	5273.4	5396.5	5538.1	5681.9	5800.1	5952.8	6100.4	6258.0	6337.9	6384.7	6516.3
5°	4275.4	4443.9	4644.5	4869.6	5056.8	5376.7	5721.4	6105.3	6289.9	6472.1	6816.6
7.5°	3058.1	3223.1	3457.0	3748.5	4014.4	4436.6	4890.7	5410.0	5665.9	5961.3	6526.2
10°	2270.6	2445.3	2656.9	2904.3	3166.5	3605.9	4115.4	4698.7	4980.5	5314.1	5956.4
12.5°	1841.0	2045.4	2264.4	2485.9	2711.2	3006.5	3540.6	4189.2	4491.8	4827.8	5471.4
15°	1436.2	1655.3	1891.5	2132.7	2356.7	2686.5	3231.7	3998.5	4344.2	4669.0	5195.9
17.5°	1016.5	1223.2	1489.1	1782.0	2106.8	2497.0	3165.2	4082.2	4501.8	4841.4	5194.6
20°	692.8	835.7	1101.5	1448.4	1849.6	2344.3	3190.0	4376.3	4900.5	5273.4	5407.6
22.5°	553.8	621.4	801.2	1154.4	1628.2	2233.7	3290.8	4779.9	5472.8	5926.9	5795.2
25°	503.3	541.5	635.1	911.9	1431.3	2159.8	3487.7	5312.7	6113.9	6574.2	6261.6
27.5°	472.5	505.8	566.1	749.5	1261.4	2111.9	3737.5	5940.4	6836.4	7214.2	6747.8
30°	452.9	486.1	541.5	673.1	1133.4	2040.4	3956.6	6513.9	7413.6	7658.4	7009.8
32.5°	414.7	440.6	486.1	603.0	1037.4	1956.8	4146.1	7027.1	7958.7	8040.0	7325.0
35°	375.3	402.4	448.0	546.4	980.8	1891.5	4245.9	7482.4	8498.9	8421.3	7637.6
37.5°	360.5	382.7	424.6	505.8	950.1	1848.4	4283.9	7930.4	9078.6	8843.6	7855.3
40°	350.7	370.4	407.3	478.8	941.5	1807.8	4275.4	8356.2	9641.0	9280.5	8026.4
42.5°	343.4	360.5	395.1	460.3	918.1	1769.7	4247.0	8724.2	10091.4	9657.0	8190.1
45°	337.2	355.6	390.2	470.2	874.9	1727.8	4229.8	9060.1	10437.2	9974.5	8409.1
47.5°	334.8	355.6	391.3	467.6	828.1	1681.1	4291.3	9433.0	10738.8	10241.5	8700.8
50°	331.0	354.4	418.5	445.4	764.3	1623.3	4499.3	9877.2	11055.1	10541.9	9078.6
52.5°	324.9	353.2	446.8	428.3	681.8	1543.3	4836.5	10504.9	11601.4	11126.4	9637.3
55°	317.5	355.6	427.1	401.2	594.4	1439.9	5173.8	11365.1	12487.6	12069.1	10439.7
57.5°	308.8	352.0	403.6	376.6	521.8	1309.5	5429.6	12070.3	13218.5	13041.3	11425.5
60°	302.7	360.5	363.1	361.8	475.1	1185.1	5454.3	12024.8	13428.9	13672.7	12390.3
62.5°	295.3	367.9	331.0	350.7	451.7	1069.4	5150.4	11280.3	13073.3	13591.5	13176.6
65°	285.5	321.2	313.8	340.9	451.7	1007.9	4442.7	10041.0	12090.1	12823.5	13603.8
67.5°	275.7	291.6	301.5	327.3	461.5	950.1	3570.1	8469.4	10539.3	11584.2	13123.7
70°	262.1	275.7	288.0	315.1	456.6	909.5	2809.6	6788.4	8673.8	9869.9	11795.9
72.5°	249.8	259.7	271.9	296.6	456.6	891.0	2257.1	5325.1	6622.2	7630.1	9771.5
75°	231.4	240.0	251.1	278.2	448.0	814.7	1694.6	4266.7	4845.1	5476.4	7710.1
77.5°	212.9	219.1	227.7	254.8	403.6	680.5	1198.7	3304.3	3589.8	3939.4	6010.6
80°	189.6	194.5	200.6	227.7	334.8	527.9	780.2	2584.4	2684.1	2852.6	3954.1
82.5°	162.5	169.8	171.1	195.7	269.6	382.7	464.0	1770.9	1769.7	2017.0	2789.9
85°	132.9	136.6	139.1	153.8	199.4	254.8	305.2	967.3	862.7	1208.5	2423.2
87.5°	99.7	96.0	99.7	103.4	131.6	150.1	163.7	178.4	107.1	219.1	1409.1
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6	5786.6
2.5°	6586.4	6659.2	6616.0	6564.4	6435.2	6245.6	6100.4	5973.6
5°	7055.4	7189.6	7130.5	6938.5	6603.7	6223.5	5823.5	5579.9
7.5°	6996.3	7262.1	7238.8	6918.9	6438.8	5878.9	5316.4	4995.3
10°	6523.8	6896.7	6960.6	6633.2	6125.0	5498.6	4847.7	4484.5
12.5°	6009.4	6323.2	6453.6	6329.3	5850.7	5214.3	4550.9	4187.9
15°	5578.6	5737.3	5866.5	5946.6	5650.1	5113.5	4499.3	4125.2
17.5°	5259.8	5229.0	5337.5	5529.4	5541.6	5247.5	4733.1	4314.7
20°	5106.0	4864.8	4927.6	5197.1	5512.1	5588.4	5199.5	4704.8
22.5°	5097.4	4720.9	4733.1	5023.5	5597.1	6053.6	5781.7	5218.0
25°	5230.3	4704.8	4715.8	5005.0	5747.1	6522.6	6454.8	5797.7
27.5°	5456.7	4773.7	4766.3	5086.3	5947.7	6913.8	7134.2	6506.5
30°	5701.7	4873.4	4854.9	5216.8	6144.7	7155.1	7616.6	7040.6
32.5°	6006.8	5050.6	4986.7	5407.6	6339.1	7386.5	8028.8	7540.3
35°	6297.2	5310.3	5218.0	5680.7	6547.2	7643.7	8490.3	8092.9
37.5°	6593.9	5698.0	5646.3	6074.6	6841.3	7923.1	9018.3	8719.2
40°	6974.1	6249.3	6224.7	6646.8	7233.8	8228.2	9610.2	9371.5
42.5°	7384.0	6835.2	6814.2	7304.0	7721.2	8534.7	10117.3	9931.4
45°	7801.2	7545.2	7550.2	8005.4	8234.4	8823.9	10515.9	10379.4
47.5°	8293.5	8321.7	8497.7	8732.8	8733.9	9146.3	10869.2	10796.6
50°	8918.7	9259.5	9584.4	9621.4	9238.6	9572.1	11301.2	11274.1
52.5°	9626.3	10341.3	10719.1	10602.2	9730.8	10100.0	11939.9	11938.6
55°	10466.8	11472.2	11827.9	11628.6	10320.3	10788.0	12774.3	12720.2
57.5°	11338.1	12560.1	12846.9	12587.2	11057.5	11589.1	13611.2	13324.3
60°	12279.5	13496.7	13788.3	13398.3	11884.5	12387.9	14164.9	13494.2
62.5°	12896.1	14044.3	14253.5	13879.4	12625.4	13201.4	14343.3	13291.2
65°	12928.1	13680.1	13735.4	13602.6	12940.4	13907.7	14084.9	12689.4
67.5°	12049.4	12093.7	12166.3	12309.1	12267.3	13592.7	13088.0	11284.0
70°	10170.2	9579.6	9818.2	9956.0	10266.2	12090.1	11245.8	9177.0
72.5°	7776.5	6913.8	7184.6	7137.8	7782.7	9916.7	8603.6	7069.0
75°	5597.1	4714.6	4735.7	4738.0	5592.1	7915.7	5866.5	5019.9
77.5°	3804.0	3336.3	3405.3	3362.1	3742.4	6201.3	4223.6	3618.1
80°	2601.6	2589.3	2604.0	2503.1	2495.8	4008.2	3127.1	2885.9
82.5°	1929.6	1783.2	1762.4	1655.3	1912.5	3064.4	2373.9	2073.6
85°	1522.3	986.9	857.8	1035.0	1656.5	2819.4	1447.2	1063.3
87.5°	644.8	387.7	235.0	465.2	920.5	2066.3	401.2	206.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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