

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: STREETWORKS

Report Number: P197189

Luminaire Tested: **NVN-AF-05-LED-U-SLR-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197189  
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: STREETWORKS  
Catalog Number: NVN-AF-05-LED-U-SLR-8030-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(5) 80 CRI, 3000K, 615mA 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: 14278 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

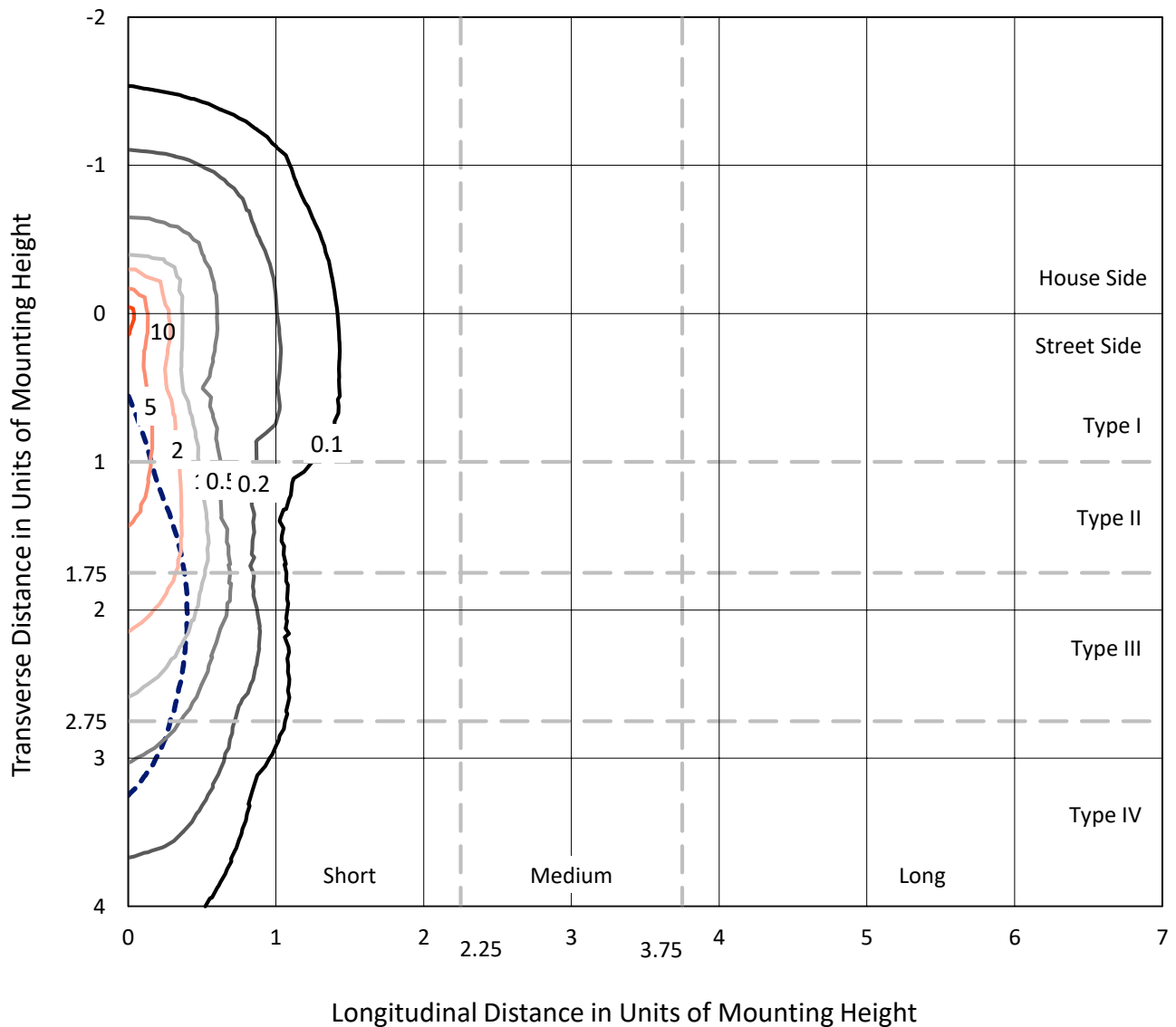
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

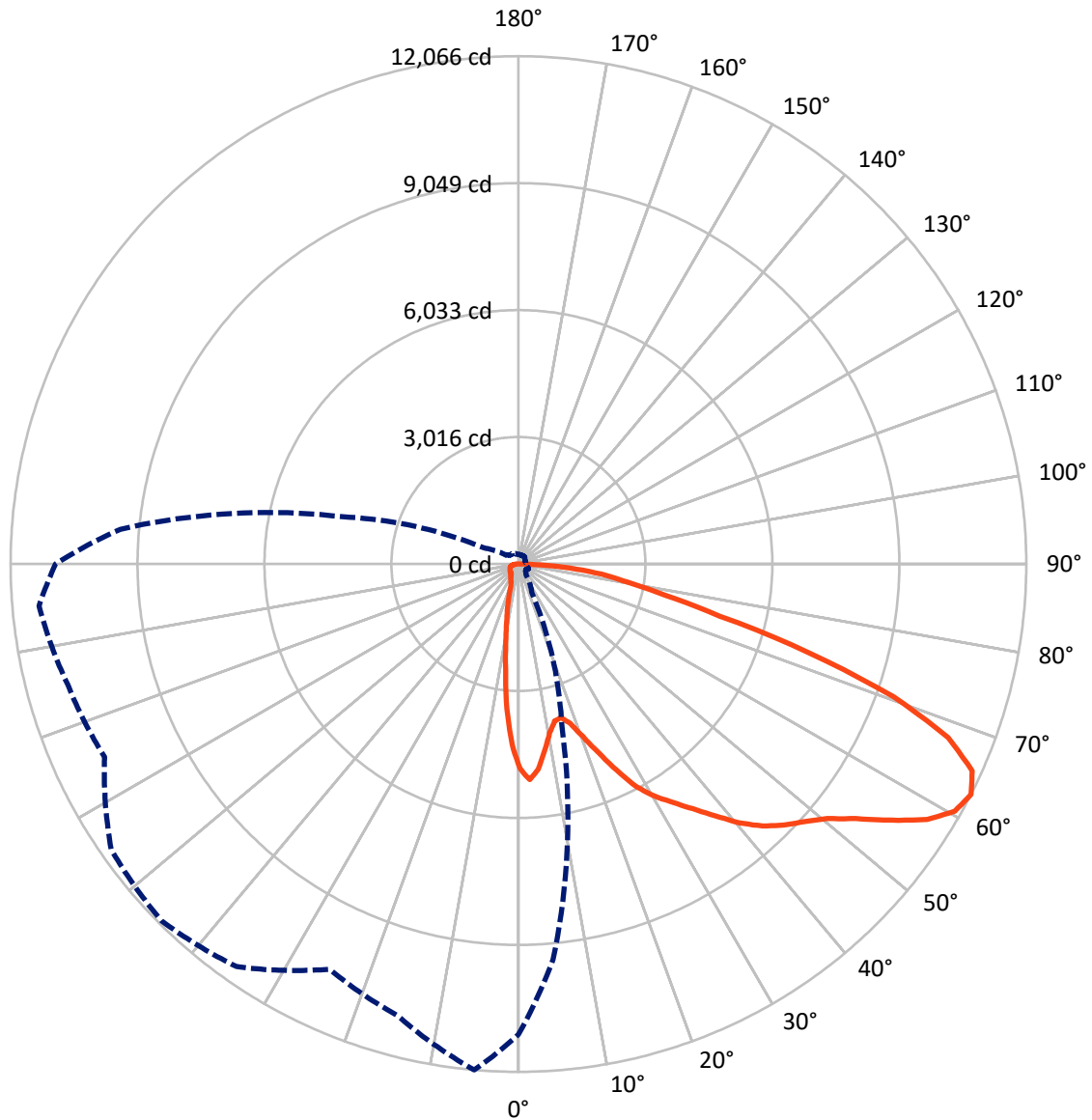
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.2 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	2529.4	0.0	2529.4
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	11748.6	0.0	11748.6
	% Fixture	82.3	0.0	82.3
<b>Total</b>	Lumens	14278.0	0.0	14278.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.0	2.5
10°-20°	646.6	4.5
20°-30°	929.9	6.5
30°-40°	1424.3	10.0
40°-50°	2082.4	14.6
50°-60°	3029.9	21.2
60°-70°	3510.5	24.6
70°-80°	1830.0	12.8
80°-90°	470.4	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°	14278.0	100.0
0°-180°	14278.0	100.0



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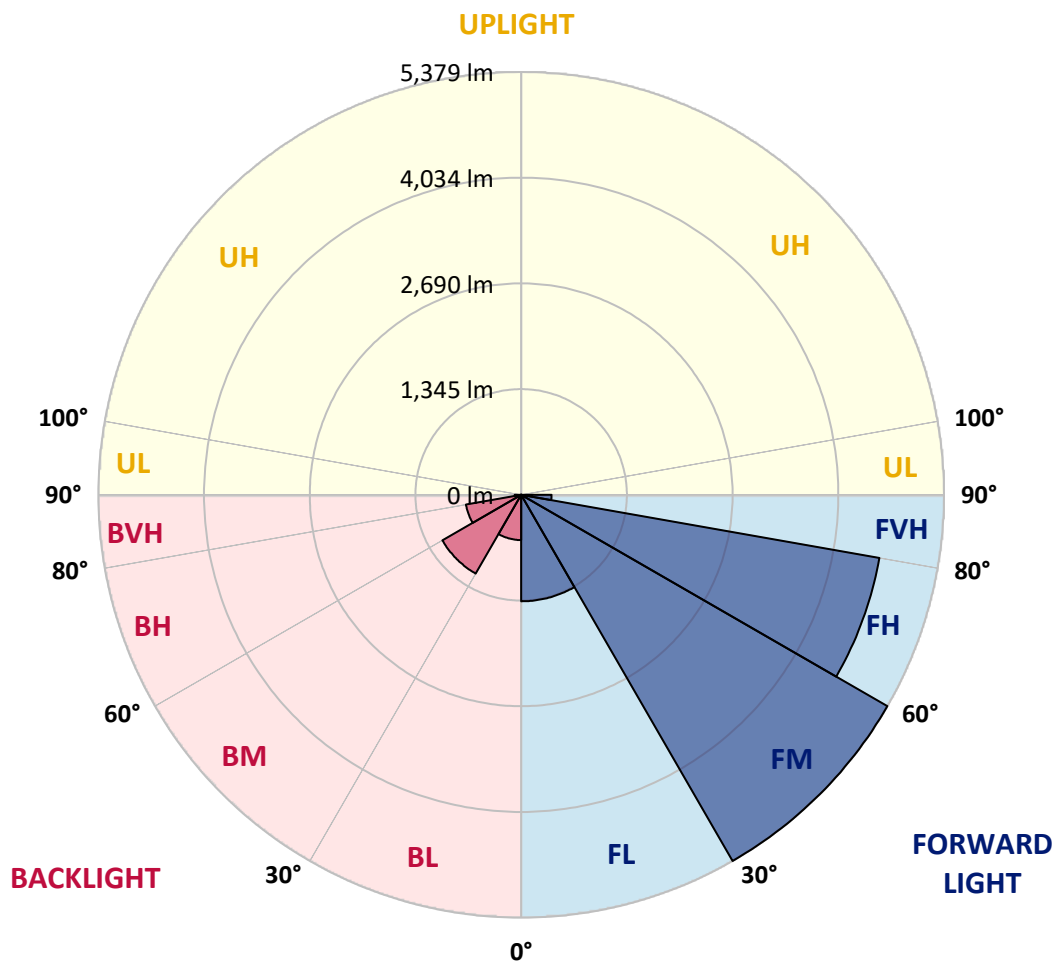
CATALOG NUMBER: NVN-AF-05-LED-U-SLR-8030-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1355.0	9.5			
FM	(30°-60°)	5379.3	37.7			
FH	(60°-80°)	4627.3	32.4			G2/5000
FVH	(80°-90°)	387.0	2.7			G3/500
BL	(0°-30°)	575.5	4.0	B2/1000		
BM	(30°-60°)	1157.3	8.1	B2/2500		
BH	(60°-80°)	713.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	83.4	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°	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7
2.5°	5025.0	4954.6	4792.1	4649.2	4471.2	4337.6	4175.1	4089.2	4026.0	3983.6	3949.4
5°	4693.7	4524.0	4213.4	3941.1	3647.1	3434.9	3186.4	3050.8	2967.0	2921.4	2900.7
7.5°	4202.0	3977.4	3575.7	3210.3	2842.7	2577.7	2389.3	2188.5	2081.8	2012.5	1989.7
10°	3772.4	3518.7	3039.4	2628.5	2344.8	2156.4	1994.9	1810.6	1674.0	1554.9	1510.4
12.5°	3522.9	3227.8	2681.2	2309.6	2071.5	1869.6	1698.8	1500.0	1356.2	1231.9	1184.3
15°	3470.1	3140.9	2531.1	2106.7	1814.8	1571.5	1366.5	1150.1	1009.3	906.9	873.7
17.5°	3629.5	3223.7	2468.0	1921.4	1569.4	1272.3	1019.7	787.8	670.8	614.9	601.5
20°	3957.7	3405.9	2438.0	1754.7	1331.3	979.3	705.0	535.2	477.2	460.7	459.6
22.5°	4389.4	3702.0	2471.1	1618.1	1107.7	722.6	516.6	440.0	416.2	406.8	406.8
25°	4877.0	4102.6	2559.1	1513.5	911.0	562.1	445.1	403.7	384.1	374.8	375.8
27.5°	5473.3	4590.2	2679.2	1417.2	770.2	492.8	416.2	381.0	361.3	352.0	353.0
30°	5922.6	5009.5	2782.7	1329.2	697.7	464.8	400.6	367.5	345.8	332.3	331.3
32.5°	6342.9	5379.1	2866.6	1266.1	656.3	415.1	362.3	337.5	318.9	303.3	300.2
35°	6807.7	5726.9	2905.9	1264.0	629.4	374.8	331.3	301.3	282.6	265.0	261.9
37.5°	7334.6	6152.4	2939.0	1276.4	614.9	348.9	316.8	287.8	272.3	254.7	250.5
40°	7883.3	6568.5	2964.9	1286.8	612.9	331.3	305.4	279.5	264.0	245.3	241.2
42.5°	8354.3	6937.1	3000.1	1282.7	598.4	328.2	298.1	272.3	257.8	239.1	234.0
45°	8731.1	7230.1	3055.0	1281.6	576.6	335.4	296.1	270.2	252.6	232.9	228.8
47.5°	9082.1	7560.3	3170.9	1277.5	552.8	333.3	307.5	268.1	250.5	230.9	227.8
50°	9483.7	8004.4	3368.6	1246.4	519.7	318.9	328.2	266.1	245.3	227.8	224.6
52.5°	10042.8	8654.5	3661.6	1190.5	474.1	303.3	331.3	265.0	237.1	221.5	217.4
55°	10700.1	9351.2	3977.4	1109.8	414.1	276.4	314.7	260.9	228.8	212.2	206.0
57.5°	11208.4	9865.7	4197.9	993.8	355.1	260.9	280.5	251.6	218.4	201.9	196.7
60°	11351.3	9888.5	4237.2	855.1	325.1	250.5	241.2	274.3	210.2	192.6	187.4
62.5°	11180.5	9436.1	3980.5	757.8	314.7	240.2	219.5	261.9	201.9	184.3	179.1
65°	10674.3	8672.1	3405.9	743.3	325.1	230.9	208.1	209.1	193.6	176.0	170.8
67.5°	9492.0	7547.9	2683.3	752.6	337.5	221.5	199.8	190.5	184.3	168.7	162.5
70°	7719.7	6076.8	2113.9	769.2	348.9	209.1	189.4	178.1	172.9	156.3	153.2
72.5°	5946.4	4863.5	1667.8	757.8	360.3	196.7	175.0	165.6	159.4	143.9	140.8
75°	4222.7	3864.5	1225.7	650.1	330.2	179.1	158.4	150.1	144.9	128.4	127.3
77.5°	3043.6	2894.5	853.0	488.6	260.9	157.4	139.8	132.5	129.4	110.8	110.8
80°	2427.6	2203.0	510.4	318.9	190.5	130.4	117.0	113.9	110.8	92.1	93.2
82.5°	1744.4	1528.0	326.1	198.8	139.8	99.4	91.1	90.1	84.9	68.3	68.3
85°	894.4	780.6	209.1	133.5	98.3	64.2	60.0	58.0	54.9	42.4	42.4
87.5°	173.9	239.1	115.9	65.2	47.6	22.8	22.8	19.7	22.8	15.5	16.6
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°	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7
2.5°	4014.6	3993.9	3979.4	3972.2	4076.7	4120.2	4169.9	4241.3	4290.0	4269.3	4335.5
5°	2998.0	3012.5	3045.6	3097.4	3243.4	3312.7	3357.3	3416.3	3458.7	3416.3	3486.7
7.5°	2049.8	2071.5	2141.9	2248.5	2424.5	2502.2	2517.7	2518.7	2509.4	2440.0	2487.7
10°	1509.4	1465.9	1481.4	1558.0	1715.4	1784.7	1792.0	1773.4	1770.2	1742.3	1796.1
12.5°	1169.8	1109.8	1074.6	1087.0	1205.0	1261.9	1271.3	1281.6	1324.1	1337.5	1403.8
15°	872.7	841.6	815.8	804.4	882.0	926.5	931.7	956.6	1001.1	1013.5	1070.4
17.5°	613.9	622.2	635.6	640.8	696.7	725.7	717.4	717.4	724.7	721.6	753.6
20°	469.0	485.5	511.4	536.2	587.0	603.5	582.8	557.0	540.4	532.1	539.4
22.5°	414.1	425.5	442.0	474.1	516.6	524.9	497.9	477.2	461.7	453.4	454.5
25°	384.1	395.5	408.9	434.8	471.0	475.2	450.3	436.9	424.4	416.2	414.1
27.5°	358.2	365.4	373.7	390.3	427.6	429.6	413.1	404.8	396.5	390.3	388.2
30°	334.4	337.5	340.6	357.2	385.1	388.2	379.9	375.8	372.7	368.5	368.5
32.5°	303.3	307.5	312.6	327.1	354.0	358.2	353.0	349.9	344.7	342.7	339.6
35°	266.1	276.4	287.8	305.4	334.4	336.4	330.2	320.9	308.5	305.4	303.3
37.5°	250.5	252.6	267.1	287.8	317.8	319.9	311.6	296.1	286.8	287.8	289.9
40°	240.2	243.3	251.6	272.3	302.3	305.4	298.1	286.8	277.4	278.5	281.6
42.5°	231.9	236.0	241.2	254.7	284.7	290.9	288.8	278.5	269.2	271.2	275.4
45°	227.8	230.9	230.9	240.2	269.2	278.5	279.5	271.2	264.0	266.1	271.2
47.5°	225.7	225.7	222.6	229.8	258.8	268.1	270.2	266.1	261.9	264.0	269.2
50°	222.6	218.4	215.3	221.5	250.5	258.8	260.9	257.8	259.8	264.0	267.1
52.5°	213.3	209.1	209.1	213.3	242.2	250.5	251.6	249.5	253.6	258.8	264.0
55°	201.9	201.9	202.9	207.0	238.1	244.3	243.3	241.2	245.3	251.6	256.7
57.5°	191.5	190.5	195.7	200.8	232.9	237.1	235.0	235.0	238.1	243.3	248.5
60°	185.3	180.1	184.3	192.6	227.8	231.9	228.8	227.8	232.9	237.1	241.2
62.5°	179.1	173.9	177.0	185.3	220.5	223.6	221.5	221.5	226.7	229.8	234.0
65°	169.8	167.7	169.8	178.1	214.3	215.3	215.3	216.4	220.5	222.6	226.7
67.5°	161.5	161.5	162.5	170.8	209.1	207.0	207.0	212.2	213.3	215.3	219.5
70°	151.1	153.2	153.2	163.6	205.0	197.7	198.8	202.9	205.0	207.0	208.1
72.5°	139.8	140.8	142.9	156.3	198.8	188.4	189.4	192.6	193.6	196.7	197.7
75°	127.3	128.4	131.5	149.1	194.6	179.1	177.0	179.1	181.2	183.2	182.2
77.5°	112.8	114.9	118.0	144.9	181.2	177.0	161.5	163.6	165.6	165.6	164.6
80°	95.2	98.3	103.5	138.7	153.2	170.8	143.9	144.9	146.0	146.0	143.9
82.5°	71.4	77.6	84.9	114.9	120.1	146.0	124.2	126.3	123.2	121.1	120.1
85°	46.6	51.8	62.1	79.7	88.0	114.9	102.5	103.5	97.3	96.3	96.3
87.5°	18.6	19.7	28.0	40.4	52.8	71.4	73.5	75.6	70.4	70.4	72.5
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7
2.5°	4436.0	4539.5	4658.5	4779.7	4879.0	5007.4	5131.6	5264.1	5331.4	5370.8	5481.5
5°	3596.4	3738.2	3907.0	4096.4	4253.8	4522.9	4812.8	5135.8	5291.1	5444.3	5734.1
7.5°	2572.5	2711.3	2908.0	3153.3	3376.9	3732.0	4114.0	4550.9	4766.2	5014.7	5489.8
10°	1910.0	2057.0	2235.1	2443.1	2663.6	3033.2	3461.8	3952.5	4189.6	4470.1	5010.5
12.5°	1548.7	1720.6	1904.8	2091.2	2280.6	2529.1	2978.4	3523.9	3778.6	4061.2	4602.6
15°	1208.1	1392.4	1591.1	1794.1	1982.5	2259.9	2718.5	3363.5	3654.4	3927.7	4370.7
17.5°	855.1	1029.0	1252.6	1499.0	1772.3	2100.5	2662.6	3433.9	3786.9	4072.6	4369.7
20°	582.8	702.9	926.5	1218.5	1556.0	1972.1	2683.3	3681.3	4122.3	4436.0	4548.8
22.5°	465.9	522.8	673.9	971.0	1369.6	1878.9	2768.2	4020.8	4603.7	4985.7	4874.9
25°	423.4	455.5	534.2	767.1	1204.0	1816.8	2933.8	4469.1	5143.0	5530.2	5267.3
27.5°	397.5	425.5	476.2	630.5	1061.1	1776.5	3144.0	4997.1	5750.7	6068.5	5676.2
30°	381.0	408.9	455.5	566.3	953.4	1716.4	3328.3	5479.5	6236.2	6442.2	5896.7
32.5°	348.9	370.6	408.9	507.3	872.7	1646.0	3487.7	5911.2	6694.8	6763.2	6161.7
35°	315.7	338.5	376.8	459.6	825.1	1591.1	3571.5	6294.2	7149.3	7084.1	6424.6
37.5°	303.3	322.0	357.2	425.5	799.2	1554.9	3603.6	6671.0	7636.9	7439.2	6607.9
40°	295.0	311.6	342.7	402.7	792.0	1520.8	3596.4	7029.2	8110.0	7806.7	6751.8
42.5°	288.8	303.3	332.3	387.2	772.3	1488.7	3572.6	7338.8	8488.9	8123.5	6889.5
45°	283.7	299.2	328.2	395.5	736.0	1453.5	3558.1	7621.4	8779.8	8390.5	7073.7
47.5°	281.6	299.2	329.2	393.4	696.7	1414.1	3609.8	7935.0	9033.4	8615.2	7319.1
50°	278.5	298.1	352.0	374.8	642.9	1365.5	3784.8	8308.8	9299.5	8867.8	7636.9
52.5°	273.3	297.1	375.8	360.3	573.5	1298.2	4068.5	8836.7	9759.1	9359.5	8106.9
55°	267.1	299.2	359.2	337.5	500.0	1211.2	4352.1	9560.4	10504.5	10152.5	8781.9
57.5°	259.8	296.1	339.6	316.8	438.9	1101.5	4567.4	10153.5	11119.4	10970.3	9611.1
60°	254.7	303.3	305.4	304.4	399.6	996.9	4588.1	10115.2	11296.4	11501.4	10422.7
62.5°	248.5	309.5	278.5	295.0	379.9	899.6	4332.4	9488.9	10997.3	11433.1	11084.2
65°	240.2	270.2	264.0	286.8	379.9	847.9	3737.2	8446.4	10170.1	10787.1	11443.4
67.5°	231.9	245.3	253.6	275.4	388.2	799.2	3003.2	7124.5	8865.7	9744.6	11039.7
70°	220.5	231.9	242.2	265.0	384.1	765.0	2363.4	5710.3	7296.3	8302.5	9922.7
72.5°	210.2	218.4	228.8	249.5	384.1	749.5	1898.6	4479.4	5570.6	6418.4	8219.7
75°	194.6	201.9	211.2	234.0	376.8	685.3	1425.5	3589.1	4075.7	4606.8	6485.7
77.5°	179.1	184.3	191.5	214.3	339.6	572.5	1008.3	2779.6	3019.8	3313.8	5056.1
80°	159.4	163.6	168.7	191.5	281.6	444.1	656.3	2174.0	2257.8	2399.7	3326.2
82.5°	136.7	142.9	143.9	164.6	226.7	322.0	390.3	1489.7	1488.7	1696.7	2346.9
85°	111.8	114.9	117.0	129.4	167.7	214.3	256.7	813.7	725.7	1016.6	2038.4
87.5°	83.9	80.7	83.9	87.0	110.8	126.3	137.7	150.1	90.1	184.3	1185.3
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7
2.5°	5540.6	5601.6	5565.4	5521.9	5413.2	5253.8	5131.6	5025.0
5°	5935.0	6047.8	5998.1	5836.6	5555.0	5235.2	4898.7	4693.7
7.5°	5885.3	6108.9	6089.2	5820.1	5416.3	4945.3	4472.2	4202.0
10°	5487.8	5801.4	5855.3	5579.9	5152.3	4625.4	4077.8	3772.4
12.5°	5055.0	5319.0	5428.7	5324.2	4921.5	4386.3	3828.3	3522.9
15°	4692.7	4826.2	4934.9	5002.2	4752.7	4301.4	3784.8	3470.1
17.5°	4424.6	4398.7	4489.8	4651.3	4661.6	4414.2	3981.5	3629.5
20°	4295.2	4092.3	4145.1	4371.8	4636.8	4701.0	4373.8	3957.7
22.5°	4287.9	3971.1	3981.5	4225.8	4708.2	5092.3	4863.5	4389.4
25°	4399.7	3957.7	3967.0	4210.3	4834.5	5486.7	5429.8	4877.0
27.5°	4590.2	4015.7	4009.4	4278.6	5003.3	5815.9	6001.2	5473.3
30°	4796.2	4099.5	4084.0	4388.3	5168.9	6018.8	6407.0	5922.6
32.5°	5053.0	4248.6	4194.8	4548.8	5332.5	6213.5	6753.8	6342.9
35°	5297.3	4467.0	4389.4	4778.6	5507.4	6429.8	7142.1	6807.7
37.5°	5546.8	4793.1	4749.6	5109.9	5754.8	6664.8	7586.2	7334.6
40°	5866.7	5256.9	5236.2	5591.3	6085.1	6921.6	8084.1	7883.3
42.5°	6211.4	5749.7	5732.1	6144.1	6495.0	7179.3	8510.6	8354.3
45°	6562.3	6347.0	6351.1	6734.2	6926.7	7422.6	8846.0	8731.1
47.5°	6976.4	7000.2	7148.3	7346.0	7347.0	7693.8	9143.2	9082.1
50°	7502.3	7789.1	8062.4	8093.4	7771.5	8052.0	9506.5	9483.7
52.5°	8097.6	8699.0	9016.9	8918.5	8185.6	8496.1	10043.8	10042.8
55°	8804.6	9650.4	9949.6	9781.9	8681.4	9074.8	10745.7	10700.1
57.5°	9537.6	10565.6	10806.8	10588.3	9301.5	9748.8	11449.7	11208.4
60°	10329.5	11353.4	11598.7	11270.6	9997.2	10420.6	11915.5	11351.3
62.5°	10848.2	11814.1	11990.0	11675.3	10620.4	11104.9	12065.6	11180.5
65°	10875.1	11507.6	11554.2	11442.4	10885.5	11699.1	11848.2	10674.3
67.5°	10135.9	10173.2	10234.3	10354.4	10319.2	11434.1	11009.7	9492.0
70°	8555.1	8058.2	8259.1	8375.0	8635.9	10170.1	9459.9	7719.7
72.5°	6541.6	5815.9	6043.7	6004.3	6546.8	8341.9	7237.3	5946.4
75°	4708.2	3966.0	3983.6	3985.6	4704.1	6658.6	4934.9	4222.7
77.5°	3199.9	2806.5	2864.5	2828.3	3148.1	5216.5	3552.9	3043.6
80°	2188.5	2178.1	2190.5	2105.7	2099.4	3371.7	2630.5	2427.6
82.5°	1623.2	1500.0	1482.5	1392.4	1608.7	2577.7	1997.0	1744.4
85°	1280.6	830.3	721.6	870.6	1393.4	2371.7	1217.4	894.4
87.5°	542.5	326.1	197.7	391.3	774.4	1738.2	337.5	173.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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