

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: P324169

Luminaire Tested: **GAN-SA5C-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26208 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

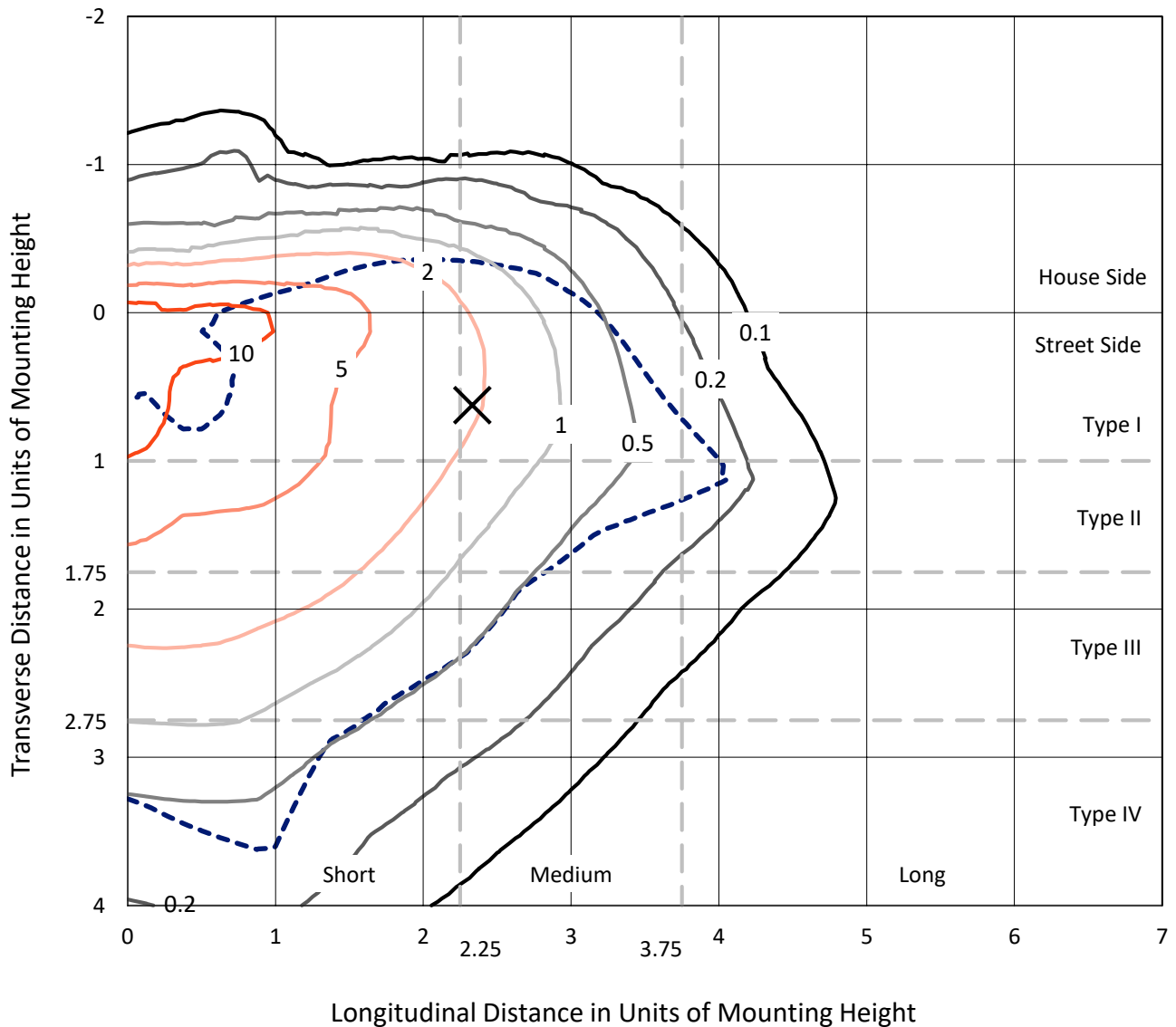
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

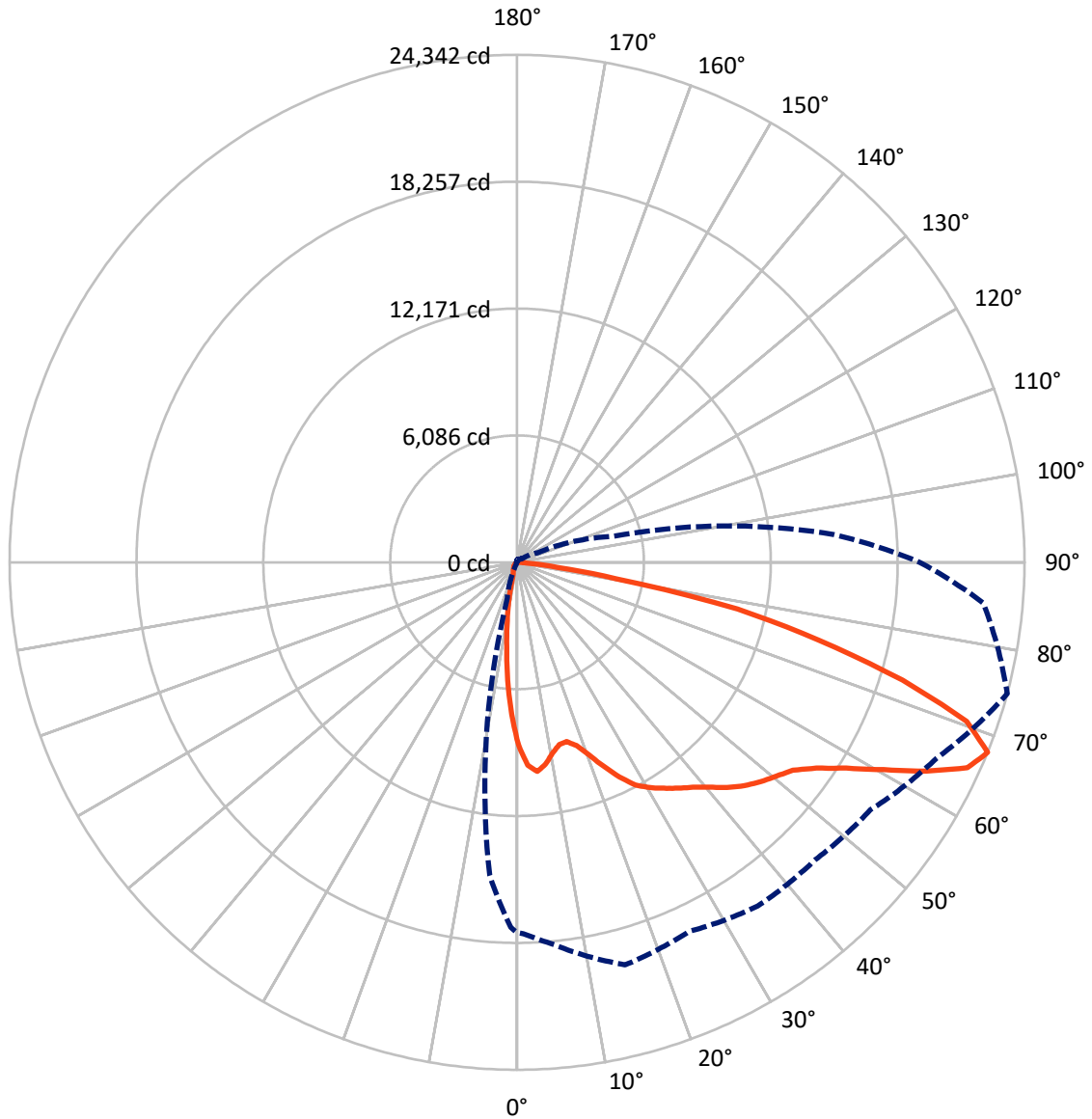
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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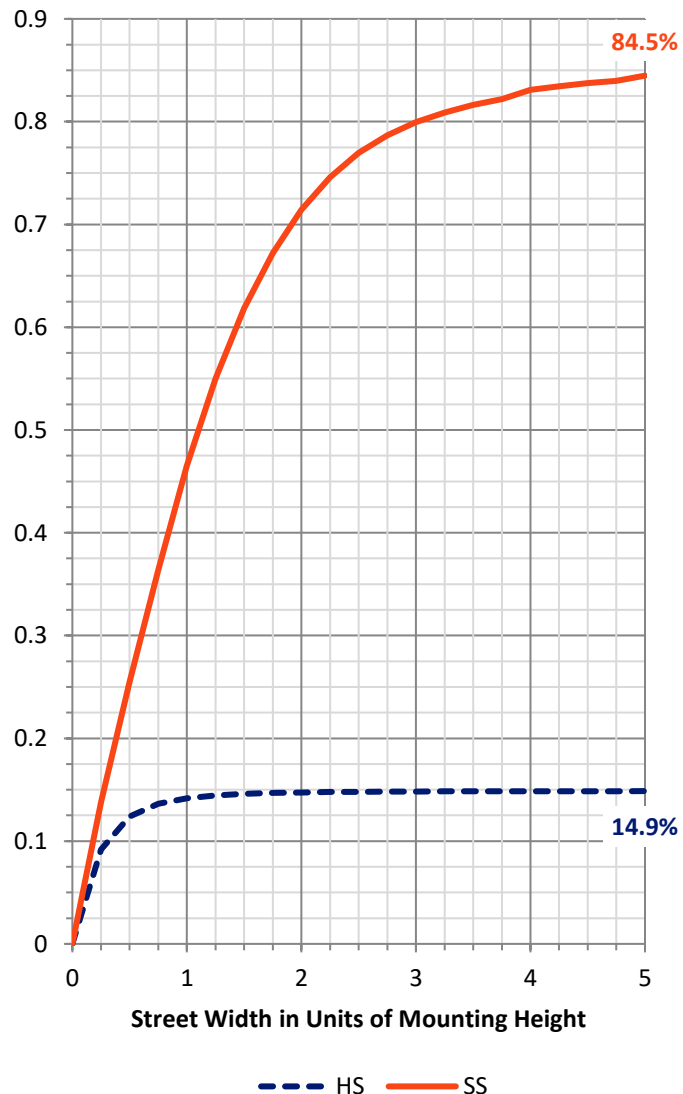
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3932.8	0.0	3932.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	22275.2	0.0	22275.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	26208.0	0.0	26208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.9	2.5
10°-20°	1313.2	5.0
20°-30°	1857.8	7.1
30°-40°	2731.5	10.4
40°-50°	3926.1	15.0
50°-60°	5526.9	21.1
60°-70°	6454.9	24.6
70°-80°	3293.1	12.6
80°-90°	437.5	1.7
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°	26208.0	100.0
0°-180°	26208.0	100.0

Coefficient of Utilization

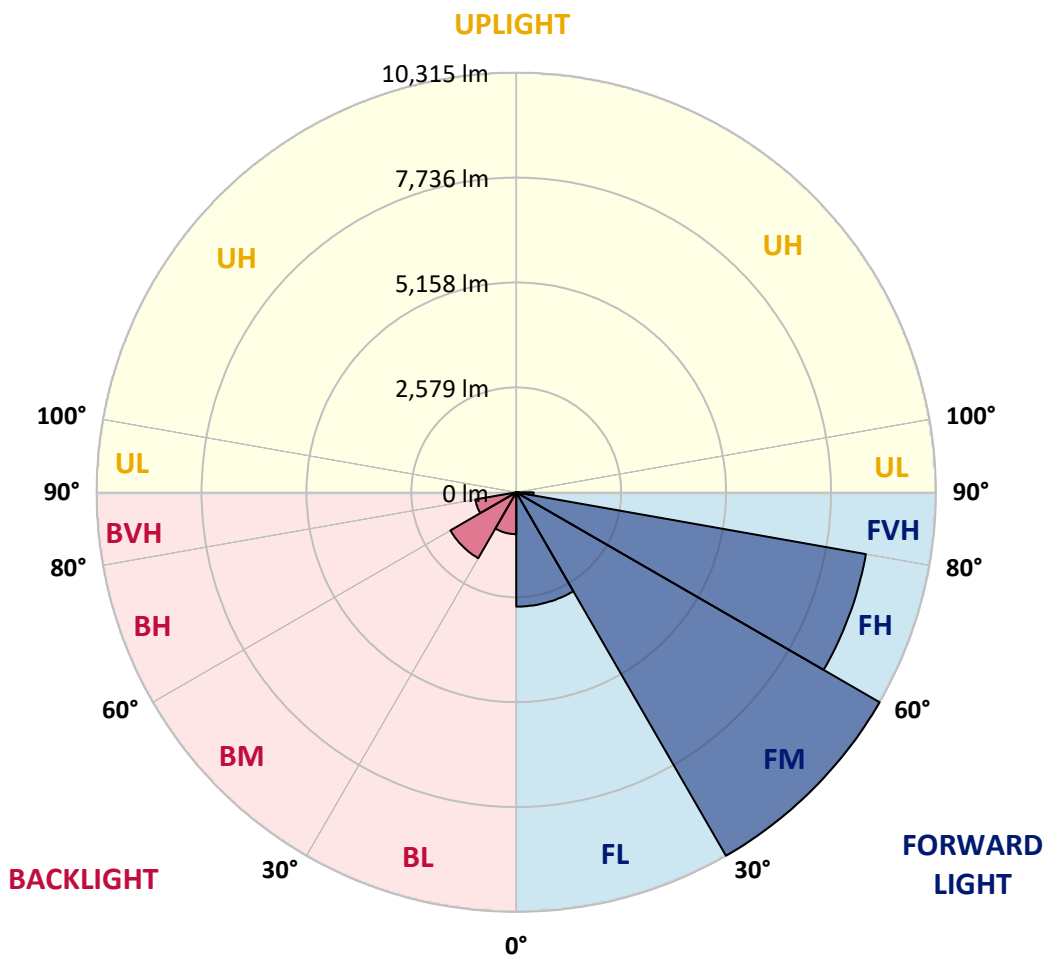


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2809.5	10.7			
FM (30°-60°)	10315.0	39.4			
FH (60°-80°)	8726.5	33.3			G4/12000
FVH (80°-90°)	424.2	1.6			G3/500
BL (0°-30°)	1028.5	3.9	B3/2500		
BM (30°-60°)	1869.5	7.1	B2/2500		
BH (60°-80°)	1021.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	13.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3
2.5°	9531.0	9545.9	9622.9	9801.7	9996.6	10011.5	10143.1	10007.8	9961.8	9743.3	9517.4
5°	9603.0	9660.1	9924.6	10449.7	10905.4	11051.9	11156.2	10890.5	10611.1	10077.3	9507.4
7.5°	9023.3	9118.9	9534.8	10520.5	11334.9	11695.0	11763.3	11347.4	10663.3	9784.3	8927.7
10°	8280.8	8390.1	8891.7	10103.4	11222.0	11839.0	11933.3	11388.3	10405.1	9310.0	8300.7
12.5°	7679.9	7807.8	8320.6	9634.1	10833.4	11516.2	11702.4	11250.5	10181.6	8973.6	7872.4
15°	7403.1	7549.6	8088.4	9331.1	10402.6	10940.1	11094.1	10899.2	10057.4	8920.2	7773.1
17.5°	7562.0	7720.9	8277.1	9357.2	9997.8	10227.5	10351.7	10431.1	10057.4	9241.8	8063.6
20°	8213.8	8385.1	8973.6	9621.7	9662.6	9577.0	9709.8	9989.1	10174.1	9852.6	8761.3
22.5°	9115.1	9316.3	9980.5	10074.8	9498.8	9174.7	9192.1	9630.4	10386.4	10627.3	9729.7
25°	10213.9	10459.7	11135.1	10750.2	9567.0	8935.1	8928.9	9334.9	10593.8	11403.2	10808.5
27.5°	11305.1	11575.8	12169.2	11574.5	9848.9	8891.7	8879.2	9245.5	10796.1	12093.5	11986.7
30°	12220.1	12483.3	12994.8	12171.7	10153.0	8993.5	8933.9	9341.1	10916.6	12541.7	12845.8
32.5°	12965.0	13176.1	13589.5	12582.6	10478.3	9190.9	9061.7	9596.8	11121.4	12920.3	13635.4
35°	13784.4	14006.7	14171.8	12973.7	10843.3	9475.2	9290.2	10002.8	11436.7	13305.2	14500.8
37.5°	14719.3	14940.3	14920.4	13331.3	11306.4	9945.7	9827.8	10645.9	11927.1	13686.3	15466.7
40°	15634.3	15860.2	15698.8	13722.4	11850.2	10721.6	10634.7	11611.8	12583.9	14174.3	16598.9
42.5°	16490.9	16735.5	16390.3	14092.3	12498.2	11699.9	11848.9	12855.8	13405.8	14775.1	17574.7
45°	17181.2	17430.7	16970.1	14452.4	13181.1	12886.8	13335.0	14233.9	14394.0	15282.9	18234.0
47.5°	17682.8	17918.6	17372.4	14812.4	14055.1	14338.1	15119.0	15679.0	15286.6	15723.7	18702.0
50°	18003.1	18186.8	17490.3	15263.1	15202.2	16031.5	16977.6	17250.7	16127.1	16120.9	19270.6
52.5°	18206.7	18289.8	17577.2	15733.6	16399.0	17875.2	18797.6	18883.3	16992.5	16557.9	20036.6
55°	18908.1	18975.2	18193.0	16303.4	17388.5	19490.4	20443.9	20364.4	17972.0	17413.3	20940.5
57.5°	20104.9	20175.7	19465.6	17122.8	18189.3	20488.6	21636.9	21779.7	19120.4	18615.1	21908.8
60°	20705.8	20837.4	20584.1	18160.7	18965.2	21126.7	22450.1	22905.8	20555.6	20199.3	22847.4
62.5°	20160.8	20352.0	20719.5	19311.6	19736.2	21478.0	22703.4	23309.2	22025.5	22045.4	23426.0
65°	19073.2	19225.9	19849.2	19942.3	20183.1	21434.6	22077.7	22745.6	22925.6	23741.3	23394.9
67.5°	17759.7	17816.8	18345.7	19991.9	19535.1	20128.5	20198.0	20692.2	22214.2	24342.2	22455.1
70°	15868.9	15899.9	16361.8	18329.6	16787.6	16918.0	16814.9	16915.5	19098.1	22878.4	20082.6
72.5°	12771.4	12849.6	13506.3	15222.1	12230.1	11853.9	12663.3	12618.7	14708.1	19329.0	14915.4
75°	9403.2	9538.5	10530.4	12261.1	8583.8	7764.4	8355.3	8513.0	10456.0	14951.4	9327.4
77.5°	6583.7	6684.3	7645.2	9013.3	6212.5	5552.0	5338.5	5525.9	6901.5	10816.0	4699.1
80°	3792.8	3830.0	4443.3	5204.4	4186.4	4789.7	4339.1	4468.2	4135.5	4812.1	2021.2
82.5°	2481.8	2488.0	2727.6	3097.6	2607.2	3029.3	2242.2	2866.6	2543.8	1933.0	658.0
85°	1340.8	1348.3	1581.7	2198.7	1476.1	834.3	490.4	1006.9	1573.0	443.2	180.0
87.5°	147.7	135.3	476.7	799.5	409.7	75.7	26.1	113.0	252.0	28.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3
2.5°	9401.9	9298.9	9041.9	8770.0	8551.5	8346.6	8140.5	7888.5	7693.6	7653.9	7589.3
5°	9200.8	8874.3	8335.5	7794.2	7358.4	6808.4	6459.5	6187.7	5922.0	5905.8	5852.5
7.5°	8498.1	8068.5	7310.0	6561.4	5948.0	5424.1	4895.3	4541.4	4263.3	4165.2	4106.9
10°	7822.7	7339.8	6392.5	5538.4	4990.8	4527.8	4155.3	3785.3	3450.1	3219.2	3114.9
12.5°	7350.9	6817.1	5773.0	5036.8	4644.5	4205.0	3750.6	3288.7	2902.6	2624.5	2454.5
15°	7168.4	6598.6	5565.7	4838.1	4354.0	3797.8	3216.7	2689.1	2260.8	2008.8	1856.0
17.5°	7385.7	6722.7	5549.5	4596.1	3919.4	3227.9	2586.1	1962.8	1559.3	1368.1	1270.1
20°	7936.9	7117.5	5543.3	4299.3	3403.0	2552.5	1751.8	1291.2	1046.6	939.8	893.9
22.5°	8716.6	7621.6	5593.0	4006.3	2865.4	1823.8	1209.2	948.5	823.1	766.0	739.9
25°	9719.7	8329.3	5733.3	3740.7	2360.1	1360.7	942.3	794.6	706.4	661.7	643.1
27.5°	10788.7	9143.7	5951.8	3509.7	1949.2	1085.1	807.0	680.3	617.0	586.0	568.6
30°	11670.1	10087.2	6172.8	3252.7	1651.2	946.0	738.7	620.8	547.5	527.6	511.5
32.5°	12441.1	10801.1	6329.2	3020.6	1456.3	840.5	667.9	555.0	505.3	466.8	449.4
35°	13239.4	11395.8	6324.2	2857.9	1322.2	761.0	608.3	496.6	437.0	392.3	378.7
37.5°	14103.5	12067.4	6216.2	2718.9	1263.9	697.7	574.8	465.6	406.0	361.3	343.9
40°	15115.3	12772.6	6105.7	2588.5	1247.7	646.8	551.2	440.7	377.4	334.0	316.6
42.5°	16101.1	13408.2	6008.9	2491.7	1178.2	645.6	530.1	422.1	355.1	312.9	293.0
45°	16889.4	14000.4	5990.3	2433.3	1104.9	667.9	518.9	409.7	337.7	295.5	276.9
47.5°	17544.9	14643.5	6109.4	2392.4	1035.4	609.6	546.3	401.0	321.5	280.6	259.5
50°	18324.6	15433.1	6390.0	2325.3	962.2	548.7	625.7	403.5	307.9	265.7	243.3
52.5°	19412.2	16525.7	6802.2	2212.4	861.6	492.9	615.8	406.0	293.0	249.5	227.2
55°	20631.3	17890.1	7245.4	2024.9	721.3	419.6	527.6	388.6	264.4	232.2	211.1
57.5°	21912.6	19127.9	7508.6	1801.4	573.6	362.5	422.1	353.8	233.4	208.6	194.9
60°	22113.7	19598.4	7388.2	1527.1	455.6	315.3	312.9	360.0	208.6	183.7	173.8
62.5°	21613.4	19007.4	6805.9	1282.5	381.1	276.9	257.0	314.1	188.7	163.9	153.9
65°	20651.2	17409.6	5862.4	1155.8	353.8	237.1	213.5	221.0	165.1	142.8	134.1
67.5°	19312.8	15276.7	4813.3	1083.8	350.1	203.6	182.5	167.6	142.8	124.2	116.7
70°	16576.6	12726.7	3840.0	1044.1	340.2	171.3	153.9	136.6	119.2	105.5	99.3
72.5°	12200.3	9018.3	2987.1	1000.7	342.7	136.6	134.1	113.0	95.6	81.9	79.5
75°	7049.3	5152.2	1959.1	810.7	326.5	105.5	111.7	79.5	67.0	57.1	57.1
77.5°	3756.8	3142.2	746.1	337.7	119.2	67.0	63.3	47.2	42.2	34.8	33.5
80°	1637.5	1383.0	224.7	94.4	65.8	36.0	23.6	21.1	18.6	14.9	13.7
82.5°	579.8	500.3	73.2	45.9	28.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	131.6	94.4	0.0	11.2	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	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3
2.5°	7457.7	7430.4	7269.0	7275.2	7303.8	7344.7	7247.9	7292.6	7413.0	7528.5	7571.9
5°	5766.8	5773.0	5674.9	5735.8	5790.4	5827.6	5671.2	5673.7	5769.3	5899.6	5967.9
7.5°	4063.4	4053.5	4058.5	4203.7	4306.8	4232.3	4290.6	4088.3	4100.7	4193.8	4124.3
10°	3020.6	2884.0	2807.0	2916.3	3029.3	2988.3	2887.7	2821.9	2867.9	2970.9	2963.5
12.5°	2373.8	2177.6	2062.1	1983.9	2077.0	2000.1	1997.6	1940.5	1878.4	1889.6	2054.7
15°	1785.3	1642.5	1505.9	1380.6	1378.1	1352.0	1219.2	1070.2	1057.8	1065.2	1150.9
17.5°	1227.8	1179.4	1123.6	1015.6	987.0	877.7	748.6	689.0	659.2	672.9	701.5
20°	862.8	844.2	850.4	792.1	751.1	646.8	571.1	547.5	542.5	556.2	569.9
22.5°	715.1	681.6	677.9	651.8	610.8	535.1	494.1	480.5	474.3	486.7	496.6
25°	625.7	592.2	578.5	562.4	518.9	466.8	442.0	429.6	423.4	430.8	437.0
27.5°	551.2	520.2	507.8	496.6	454.4	417.1	397.3	386.1	381.1	383.6	389.8
30°	495.4	468.0	451.9	438.3	402.2	376.2	358.8	347.6	342.7	342.7	348.9
32.5°	437.0	422.1	407.2	389.8	356.3	338.9	321.5	309.1	304.2	305.4	310.4
35°	363.8	358.8	362.5	346.4	317.8	302.9	285.5	271.9	268.2	269.4	274.4
37.5°	322.8	300.4	314.1	305.4	289.3	269.4	247.1	234.6	228.4	232.2	234.6
40°	296.7	269.4	259.5	268.2	265.7	233.4	213.5	201.1	196.2	197.4	199.9
42.5°	274.4	242.1	219.7	218.5	233.4	203.6	182.5	171.3	165.1	165.1	167.6
45°	253.3	218.5	191.2	170.1	196.2	172.6	152.7	142.8	135.3	135.3	136.6
47.5°	237.1	198.6	166.4	139.0	147.7	141.5	125.4	115.5	108.0	108.0	109.3
50°	222.2	178.8	144.0	116.7	110.5	116.7	101.8	90.6	85.7	84.4	86.9
52.5°	206.1	158.9	122.9	99.3	86.9	88.1	79.5	72.0	65.8	65.8	68.3
55°	190.0	142.8	106.8	84.4	72.0	65.8	63.3	58.4	53.4	53.4	55.9
57.5°	173.8	125.4	90.6	69.5	57.1	52.1	52.1	48.4	44.7	44.7	47.2
60°	158.9	108.0	74.5	57.1	44.7	43.5	44.7	41.0	38.5	38.5	41.0
62.5°	141.5	91.9	60.8	47.2	36.0	34.8	38.5	36.0	33.5	33.5	36.0
65°	120.4	78.2	48.4	36.0	27.3	27.3	32.3	29.8	27.3	27.3	29.8
67.5°	101.8	65.8	37.2	26.1	19.9	21.1	27.3	24.8	23.6	23.6	26.1
70°	84.4	50.9	26.1	16.1	11.2	16.1	21.1	21.1	21.1	21.1	23.6
72.5°	63.3	34.8	14.9	6.2	5.0	11.2	17.4	19.9	18.6	18.6	22.3
75°	41.0	19.9	5.0	0.0	0.0	6.2	13.7	16.1	16.1	14.9	18.6
77.5°	23.6	6.2	0.0	0.0	0.0	0.0	8.7	7.4	6.2	5.0	8.7
80°	6.2	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	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	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3
2.5°	7747.0	7893.5	8099.6	8318.1	8654.5	8921.5	9183.4	9408.1	9495.0	9531.0
5°	6131.8	6346.6	6648.3	7035.6	7642.7	8189.0	8742.7	9300.1	9542.2	9603.0
7.5°	4399.9	4674.3	5057.9	5543.3	6254.7	6962.4	7735.8	8554.0	8928.9	9023.3
10°	3256.5	3591.7	4031.2	4542.7	5221.8	5949.3	6792.3	7727.1	8155.4	8280.8
12.5°	2310.4	2763.6	3352.1	3974.1	4562.5	5211.8	6064.8	7095.2	7544.6	7679.9
15°	1357.0	1795.2	2491.7	3324.7	4078.3	4736.3	5602.9	6771.2	7266.5	7403.1
17.5°	778.4	996.9	1523.3	2452.0	3475.0	4386.2	5457.7	6851.9	7435.4	7562.0
20°	594.7	664.2	877.7	1579.2	2769.8	4042.3	5457.7	7308.7	8027.6	8213.8
22.5°	520.2	571.1	658.0	942.3	2038.6	3673.6	5521.0	7969.2	8909.0	9115.1
25°	461.8	507.8	582.3	708.9	1390.5	3235.4	5671.2	8779.9	9946.9	10213.9
27.5°	413.4	456.9	523.9	620.8	951.0	2706.5	5873.6	9730.9	11091.6	11305.1
30°	370.0	410.9	471.8	540.1	733.7	2106.8	6046.1	10627.3	11990.5	12220.1
32.5°	329.0	366.2	420.9	471.8	600.9	1558.1	6064.8	11337.4	12736.6	12965.0
35°	290.5	324.0	373.7	413.4	497.8	1230.3	5775.5	11953.2	13482.7	13784.4
37.5°	253.3	285.5	329.0	358.8	438.3	1003.1	5333.5	12639.8	14439.9	14719.3
40°	218.5	247.1	291.8	311.6	414.7	771.0	4853.0	13359.8	15378.5	15634.3
42.5°	186.2	213.5	257.0	295.5	363.8	576.1	4334.1	14035.2	16222.7	16490.9
45°	155.2	183.7	227.2	312.9	301.7	430.8	3779.1	14483.4	16889.4	17181.2
47.5°	125.4	157.7	217.3	298.0	240.9	316.6	3339.6	14908.0	17394.7	17682.8
50°	100.6	132.8	244.6	265.7	197.4	242.1	3155.9	15287.9	17726.2	18003.1
52.5°	81.9	111.7	230.9	203.6	165.1	199.9	3255.2	15903.7	18032.9	18206.7
55°	68.3	88.1	139.0	141.5	140.3	170.1	3378.1	16787.6	18826.2	18908.1
57.5°	59.6	70.8	96.8	109.3	117.9	151.5	3380.6	18056.4	20054.0	20104.9
60°	50.9	62.1	80.7	88.1	101.8	135.3	3257.7	18499.7	20537.0	20705.8
62.5°	44.7	54.6	67.0	73.2	85.7	121.7	2969.7	17857.8	19874.0	20160.8
65°	39.7	49.7	55.9	62.1	75.7	109.3	2495.4	16574.1	18774.0	19073.2
67.5°	34.8	43.5	49.7	55.9	68.3	96.8	1837.4	15083.0	17511.4	17759.7
70°	31.0	38.5	44.7	49.7	59.6	81.9	1114.9	12798.7	15765.9	15868.9
72.5°	29.8	34.8	41.0	44.7	52.1	72.0	564.9	9405.6	12603.8	12771.4
75°	26.1	31.0	37.2	39.7	45.9	62.1	229.7	6177.7	9133.7	9403.2
77.5°	21.1	28.6	33.5	36.0	39.7	50.9	116.7	3948.0	6409.9	6583.7
80°	7.4	21.1	28.6	29.8	33.5	37.2	77.0	2161.5	3718.3	3792.8
82.5°	0.0	13.7	22.3	21.1	23.6	28.6	49.7	1028.0	2454.5	2481.8
85°	0.0	6.2	17.4	13.7	9.9	19.9	17.4	224.7	1287.4	1340.8
87.5°	0.0	0.0	1.2	6.2	5.0	7.4	2.5	1.2	116.7	147.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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