

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: McGRAW-EDISON

Report Number: P652620

Luminaire Tested: **GALN-SA9B-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31155.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

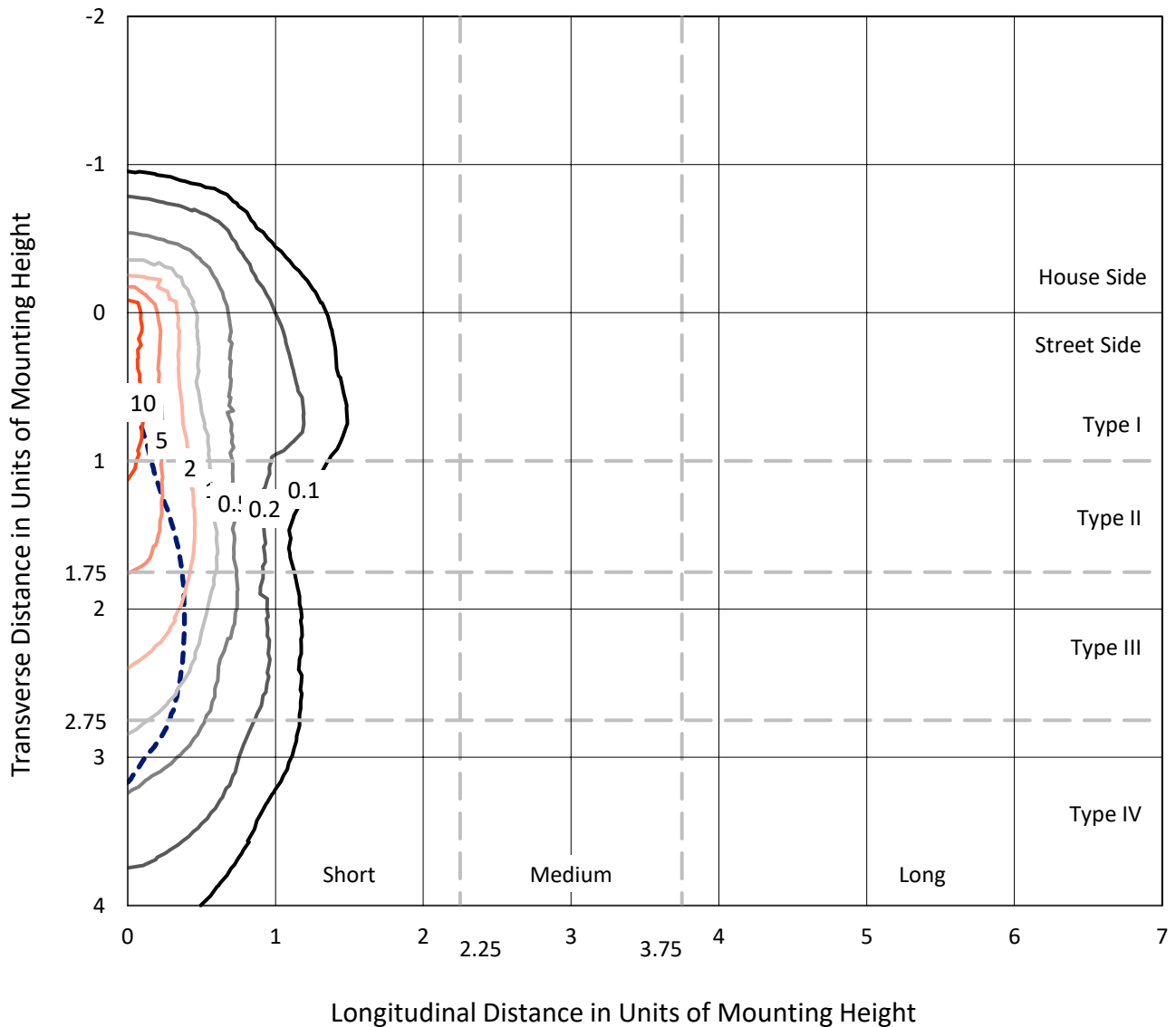
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

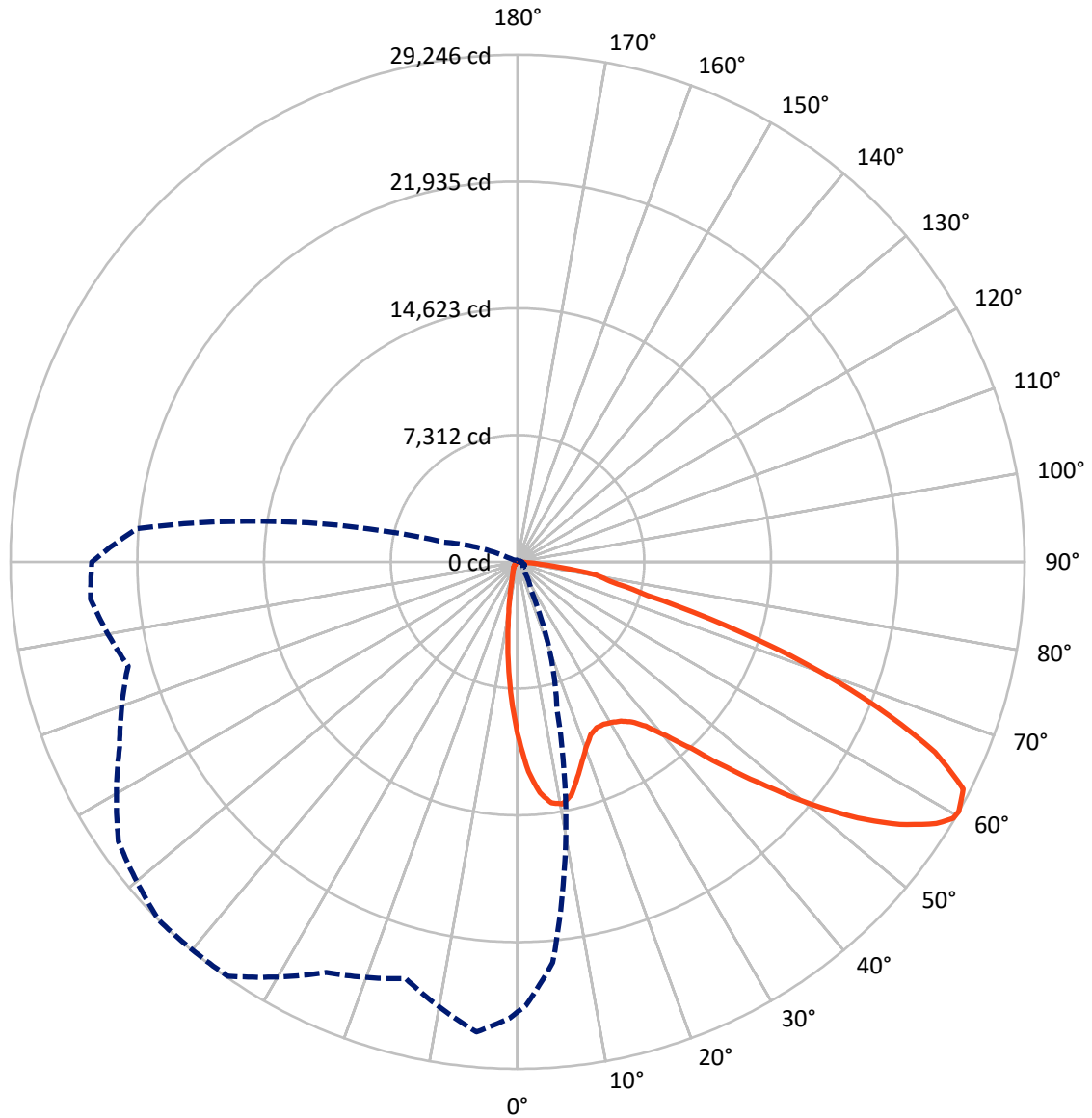
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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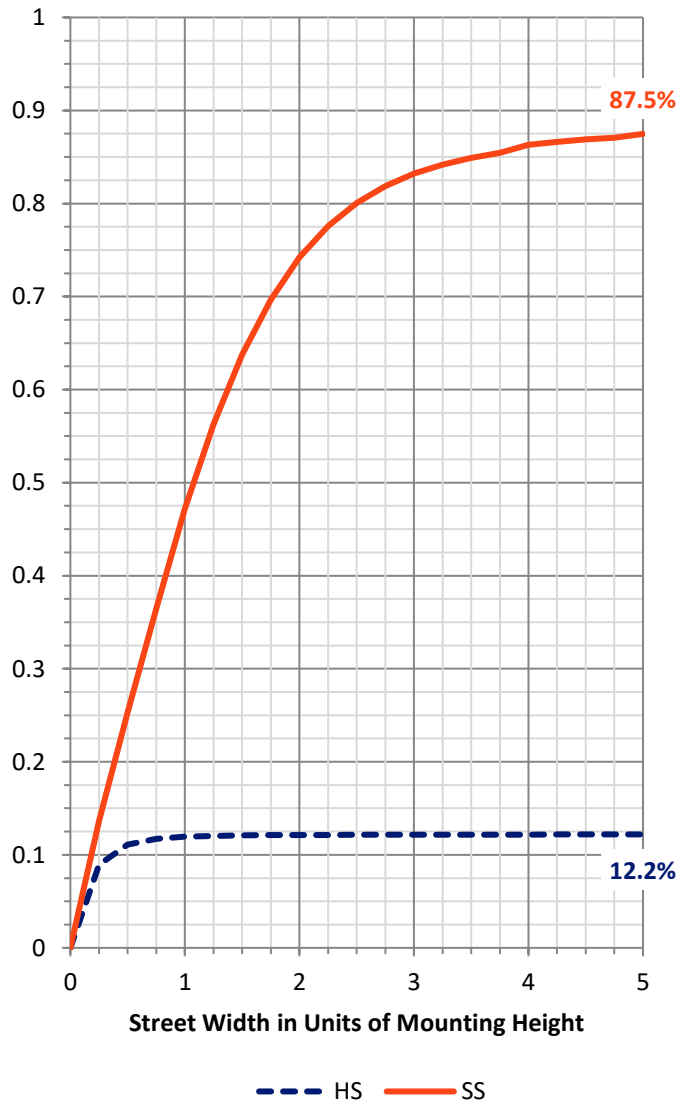
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3842.7	0.0	3842.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	27312.9	0.0	27312.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	31155.7	0.0	31155.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.9	2.5
10°-20°	1521.1	4.9
20°-30°	2230.3	7.2
30°-40°	3316.8	10.6
40°-50°	4827.0	15.5
50°-60°	6960.9	22.3
60°-70°	7656.3	24.6
70°-80°	3429.4	11.0
80°-90°	448.1	1.4
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°	31155.7	100.0
0°-180°	31155.7	100.0

Coefficient of Utilization



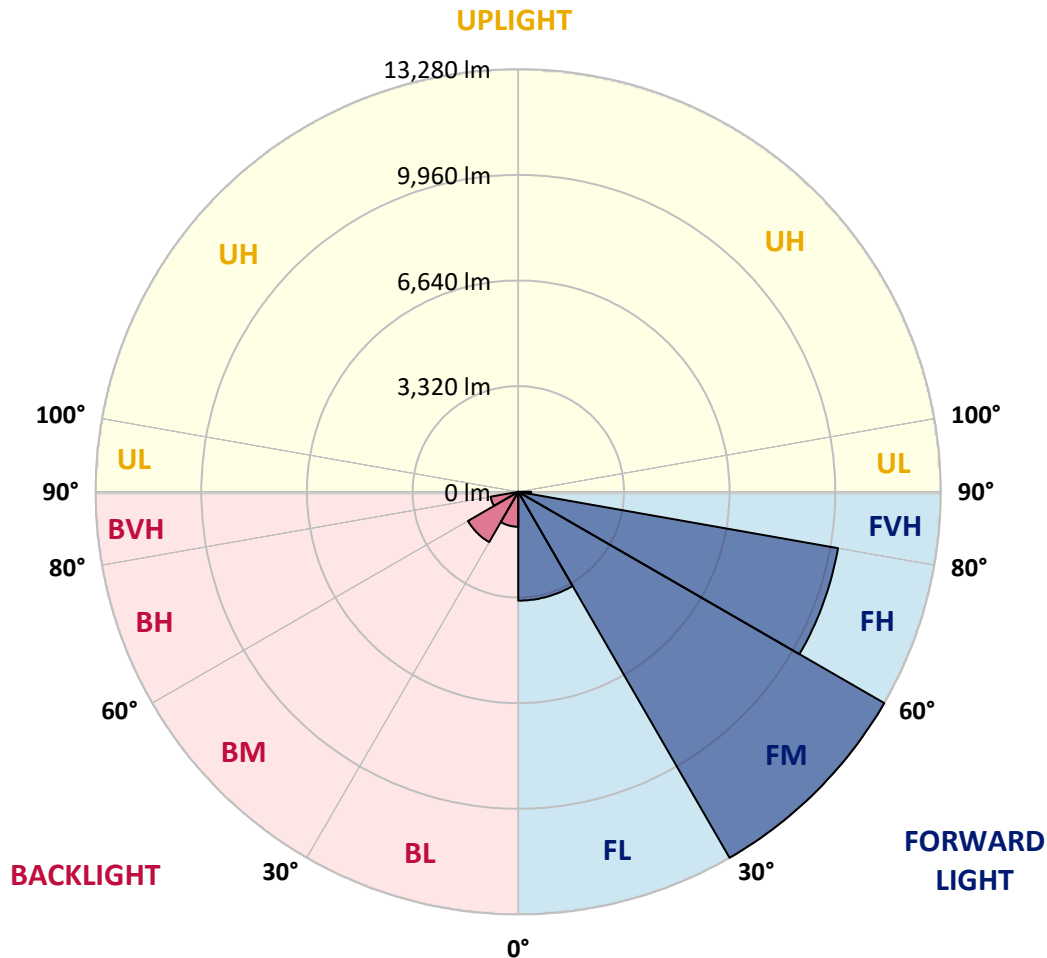
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3419.2	11.0			
FM (30°-60°)	13279.5	42.6			
FH (60°-80°)	10204.4	32.8			G4/12000
FVH (80°-90°)	409.8	1.3			G3/500
BL (0°-30°)	1098.0	3.5	B3/2500		
BM (30°-60°)	1825.2	5.9	B2/2500		
BH (60°-80°)	881.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	38.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4
2.5°	11320.5	11270.7	11157.1	10811.3	10510.6	10117.4	9719.5	9406.9	9215.1	8862.2	8701.2
5°	10967.6	10991.3	10662.1	9951.6	9160.6	8620.7	8031.0	7562.0	7045.7	6718.9	6375.5
7.5°	10046.3	9999.0	9641.4	8651.5	7689.9	6908.3	6162.3	5556.1	5174.8	4869.2	4613.5
10°	9257.7	9222.2	8765.1	7491.0	6458.4	5873.4	5368.9	4838.4	4428.7	3981.1	3623.5
12.5°	8762.7	8682.2	8156.4	6825.5	5984.7	5440.0	4890.6	4338.7	3772.7	3320.4	2887.0
15°	8597.0	8480.9	7895.9	6595.7	5681.5	4990.0	4300.9	3666.2	3014.8	2515.2	2188.3
17.5°	8897.7	8705.9	8083.0	6555.5	5319.2	4402.7	3554.8	2728.3	2050.9	1669.6	1468.4
20°	9586.9	9366.6	8556.7	6515.2	4916.6	3744.3	2702.2	1927.8	1418.6	1210.2	1098.9
22.5°	10610.1	10306.9	9257.7	6579.1	4544.8	3102.4	1951.5	1361.7	1127.3	997.1	918.9
25°	11839.2	11585.8	10145.8	6806.5	4251.1	2598.0	1508.6	1113.1	949.7	869.2	810.0
27.5°	13186.7	12781.8	11294.5	7078.9	3983.5	2207.3	1323.9	994.7	845.5	772.0	741.3
30°	14145.9	13830.9	12256.0	7268.3	3649.5	1913.6	1210.2	980.4	847.8	760.3	703.4
32.5°	15093.3	14690.6	13061.2	7356.0	3405.6	1709.9	1046.8	855.0	743.6	698.6	641.9
35°	16106.8	15685.3	13864.1	7308.6	3223.3	1574.9	949.7	762.6	637.1	561.3	504.4
37.5°	17132.3	16687.1	14662.2	7138.1	3109.6	1520.4	873.9	724.7	601.6	523.4	461.8
40°	18349.6	17755.2	15410.6	6998.4	2991.2	1492.0	824.2	701.1	575.5	492.6	431.0
42.5°	19344.3	18778.3	16118.7	6925.0	2910.6	1425.7	824.2	682.1	558.9	466.6	402.6
45°	20286.9	19699.6	16883.7	6984.2	2877.5	1342.8	833.7	679.7	547.1	447.6	383.7
47.5°	21075.5	20566.4	17669.9	7206.8	2834.8	1252.8	783.9	712.8	540.0	431.0	364.7
50°	22006.3	21513.7	18709.6	7656.7	2759.1	1162.9	722.3	767.3	537.6	416.8	348.2
52.5°	23318.3	22785.5	20144.8	8168.3	2638.3	1025.5	665.5	760.3	528.1	393.2	331.5
55°	24921.7	24490.7	21807.4	8781.7	2472.5	871.5	575.5	675.0	499.7	352.9	303.2
57.5°	25949.6	25582.5	23053.1	9047.0	2219.1	712.8	506.8	566.0	457.1	315.0	270.0
59°	26070.3	25738.7	23313.6	8959.3	2053.3	651.3	473.7	485.5	445.2	293.7	251.0
60°	25968.5	25625.1	23209.4	8788.8	1899.4	608.6	445.2	431.0	447.6	281.8	236.8
62.5°	25314.9	24727.5	22198.1	7924.3	1660.2	558.9	395.5	352.9	395.5	253.4	210.8
65°	24052.5	23171.5	20197.0	6707.1	1565.4	530.5	336.3	296.0	300.7	222.6	182.3
67.5°	21847.7	20736.9	17532.6	5449.5	1525.2	532.9	284.2	265.3	232.1	189.5	161.1
70°	18361.5	17253.1	14067.7	4483.2	1506.2	532.9	241.5	227.3	194.2	158.7	139.7
72.5°	13011.4	11817.8	9489.8	3521.7	1357.0	530.5	206.0	206.0	158.7	132.6	113.7
75°	7351.3	7360.7	5965.8	2491.5	1127.3	438.2	165.8	163.4	116.1	101.8	85.3
77.5°	4284.3	4208.4	4021.4	1070.5	523.4	198.9	116.1	99.5	80.5	73.4	61.6
80°	2202.5	1811.8	1764.4	388.4	187.1	125.6	80.5	56.9	52.1	47.3	42.6
82.5°	651.3	653.6	582.6	156.3	104.2	82.9	40.3	30.8	28.4	26.1	26.1
85°	45.0	28.4	33.1	47.3	63.9	33.1	2.4	7.1	7.1	9.5	11.9
87.5°	4.7	2.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4
2.5°	8523.5	8627.7	8433.5	8438.3	8277.2	8329.3	8139.9	8201.4	8090.2	8175.4	8426.4
5°	6413.4	6437.1	6280.8	6231.1	6254.7	6351.8	6389.7	6216.8	6290.3	6145.8	6136.3
7.5°	4518.7	4547.1	4457.1	4445.3	4615.8	4575.5	4649.0	4471.3	4303.2	4376.6	4241.7
10°	3509.8	3391.4	3206.6	3154.6	3121.5	3142.7	3142.7	2981.7	2958.0	2894.0	2991.2
12.5°	2770.9	2626.4	2451.2	2214.4	2155.1	2150.4	2062.8	1920.7	1875.7	1821.3	1901.8
15°	2013.1	1953.9	1807.1	1674.4	1539.4	1513.4	1371.3	1255.2	1101.3	1079.9	1072.9
17.5°	1416.2	1328.6	1326.3	1250.5	1172.4	1120.2	987.6	855.0	795.8	788.6	788.6
20°	1061.0	1030.2	980.4	971.0	947.3	888.1	769.7	698.6	670.2	672.6	682.1
22.5°	892.9	871.5	826.5	805.3	795.8	743.6	656.0	608.6	594.4	594.4	596.8
25°	798.1	779.2	729.4	696.3	684.4	646.6	577.9	542.4	530.5	530.5	530.5
27.5°	727.0	703.4	651.3	622.8	601.6	558.9	516.3	480.8	468.9	468.9	471.3
30°	677.3	651.3	603.9	566.0	532.9	495.0	459.4	428.7	414.4	412.1	414.4
32.5°	611.0	587.4	540.0	516.3	478.4	433.4	404.9	376.6	362.4	364.7	362.4
35°	476.0	468.9	435.8	442.9	421.6	383.7	357.6	326.8	310.2	307.9	312.6
37.5°	433.4	404.9	367.1	369.5	362.4	348.2	305.5	272.3	260.5	260.5	262.9
40°	400.2	371.8	329.2	307.9	310.2	310.2	265.3	229.8	217.9	215.5	220.3
42.5°	371.8	343.4	296.0	260.5	251.0	262.9	225.0	189.5	177.6	172.9	177.6
45°	352.9	322.1	267.6	227.3	198.9	213.1	184.8	156.3	142.1	142.1	139.7
47.5°	334.0	305.5	246.3	196.5	165.8	158.7	151.5	125.6	111.3	108.9	111.3
50°	317.4	289.0	222.6	170.6	139.7	123.1	123.1	99.5	90.0	85.3	87.6
52.5°	300.7	270.0	201.3	151.5	120.8	99.5	87.6	80.5	73.4	71.1	73.4
55°	277.1	246.3	180.0	130.3	104.2	82.9	68.7	66.3	61.6	56.9	61.6
57.5°	248.7	220.3	158.7	111.3	82.9	63.9	56.9	54.5	49.7	47.3	47.3
59°	232.1	206.0	146.8	97.1	73.4	56.9	52.1	49.7	45.0	40.3	42.6
60°	222.6	201.3	139.7	90.0	66.3	52.1	47.3	45.0	40.3	37.9	40.3
62.5°	196.5	180.0	123.1	73.4	52.1	37.9	33.1	35.5	33.1	30.8	33.1
65°	172.9	158.7	104.2	56.9	40.3	26.1	23.7	30.8	28.4	26.1	28.4
67.5°	153.9	137.3	87.6	42.6	28.4	14.2	16.6	26.1	26.1	23.7	26.1
70°	132.6	118.4	71.1	30.8	14.2	7.1	11.9	18.9	23.7	21.3	23.7
72.5°	108.9	92.3	54.5	21.3	7.1	0.0	7.1	16.6	23.7	21.3	23.7
75°	85.3	68.7	40.3	11.9	0.0	0.0	2.4	14.2	23.7	21.3	23.7
77.5°	61.6	49.7	23.7	2.4	0.0	0.0	2.4	14.2	23.7	21.3	23.7
80°	40.3	35.5	9.5	0.0	0.0	0.0	2.4	14.2	23.7	23.7	26.1
82.5°	26.1	18.9	0.0	0.0	0.0	0.0	4.7	18.9	26.1	28.4	28.4
85°	11.9	0.0	0.0	0.0	0.0	0.0	9.5	23.7	30.8	30.8	30.8
87.5°	0.0	0.0	0.0	0.0	0.0	4.7	16.6	28.4	35.5	35.5	35.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4
2.5°	8469.0	8618.2	8829.1	9153.5	9416.4	9830.9	10148.2	10581.6	11019.7	11152.3	11358.4
5°	6233.4	6425.2	6903.6	7339.4	7614.1	8490.4	9044.5	9918.5	10702.4	11078.9	11488.6
7.5°	4329.3	4556.6	4921.4	5530.0	6107.8	6820.8	7715.9	8715.4	9864.0	10401.6	10979.5
10°	3038.5	3322.7	3836.6	4336.4	5063.4	5740.8	6624.1	7727.8	8994.8	9629.5	10354.2
12.5°	1918.3	2171.7	2851.4	3412.7	4319.8	5106.0	5920.8	6920.2	8388.6	9039.8	9800.1
15°	1096.5	1309.7	1627.0	2347.0	3353.5	4393.2	5409.2	6569.7	8078.3	8881.1	9703.0
17.5°	817.0	873.9	1016.0	1423.4	2339.9	3554.8	4937.9	6463.1	8289.1	9231.7	10169.5
20°	686.8	724.7	791.0	952.1	1492.0	2737.8	4478.5	6482.1	8971.1	10155.3	11045.8
22.5°	615.8	639.4	693.9	798.1	1018.4	1994.1	3940.8	6593.4	9797.6	11289.8	12317.5
25°	540.0	570.8	618.1	708.1	847.8	1383.1	3410.3	6842.0	10955.8	12729.6	13695.9
27.5°	480.8	509.2	556.6	639.4	743.6	1056.3	2792.2	7055.1	12177.8	14179.1	14970.1
30°	421.6	450.0	497.4	563.6	658.4	855.0	2126.7	7180.7	13364.3	15266.1	15874.8
32.5°	371.8	395.5	440.5	499.7	577.9	724.7	1676.8	7050.4	14271.4	16253.7	16661.1
35°	322.1	350.5	388.4	442.9	511.6	618.1	1395.0	6600.5	15050.6	17269.7	17416.5
37.5°	270.0	303.2	343.4	393.2	447.6	568.4	1120.2	6103.1	15884.2	18536.7	18295.2
40°	227.3	258.2	296.0	350.5	400.2	521.0	862.0	5572.6	16784.2	19725.7	19254.4
42.5°	184.8	217.9	262.9	312.6	395.5	454.7	667.8	5023.2	17591.8	20760.6	20121.2
45°	146.8	175.3	222.6	286.5	393.2	390.8	516.3	4480.8	18200.4	21499.5	20767.7
47.5°	116.1	139.7	187.1	279.5	362.4	331.5	414.4	4144.5	18839.9	22165.0	21262.7
50°	92.3	116.1	161.1	291.3	317.4	284.2	348.2	4199.0	19458.0	22503.6	21466.4
52.5°	78.1	101.8	139.7	229.8	244.0	248.7	305.5	4450.1	20256.2	22866.0	21871.3
55°	68.7	90.0	118.4	161.1	189.5	222.6	279.5	4632.4	21324.2	23642.8	22764.2
57.5°	54.5	78.1	106.6	137.3	156.3	194.2	258.2	4646.6	22290.5	24639.9	23950.7
59°	49.7	71.1	99.5	130.3	139.7	175.3	244.0	4525.8	22326.0	24789.1	24495.4
60°	45.0	68.7	94.7	120.8	132.6	165.8	232.1	4386.1	22003.9	24552.2	24720.4
62.5°	37.9	59.2	82.9	97.1	113.7	137.3	201.3	3879.3	20443.2	23479.4	24303.6
65°	33.1	52.1	71.1	80.5	94.7	118.4	177.6	3104.9	18719.1	22025.3	23109.9
67.5°	30.8	47.3	61.6	68.7	82.9	108.9	158.7	2193.1	16485.8	20180.4	21317.2
70°	28.4	45.0	54.5	63.9	73.4	92.3	135.0	1278.9	12698.8	16945.2	18146.0
72.5°	28.4	42.6	47.3	54.5	63.9	82.9	125.6	691.6	8682.2	12926.3	14477.5
75°	28.4	40.3	42.6	47.3	56.9	75.8	111.3	362.4	5612.9	8980.6	11083.7
77.5°	28.4	37.9	42.6	45.0	54.5	66.3	97.1	227.3	3739.6	6290.3	7491.0
80°	30.8	37.9	40.3	45.0	52.1	61.6	80.5	151.5	2197.8	3784.6	4559.0
82.5°	33.1	37.9	42.6	47.3	54.5	59.2	71.1	94.7	1013.7	2503.3	2832.5
85°	35.5	40.3	45.0	49.7	56.9	59.2	66.3	68.7	165.8	1129.7	1527.6
87.5°	37.9	42.6	47.3	52.1	61.6	61.6	61.6	61.6	56.9	120.8	307.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4	10297.4
2.5°	11618.9	11886.5	12073.6	12121.0	11986.0	11924.5	11753.9	11488.6	11327.6	11320.5
5°	12244.1	12871.8	13307.5	13380.9	13120.4	12679.9	12156.5	11481.6	11086.1	10967.6
7.5°	12137.6	13236.5	13937.5	14039.3	13601.2	12760.4	11746.8	10659.8	10228.7	10046.3
10°	11699.4	13039.9	14041.7	14202.7	13617.7	12433.6	11145.3	9932.7	9397.4	9257.7
12.5°	11325.2	12679.9	13570.4	13793.0	13350.1	12168.3	10785.2	9466.1	8893.0	8762.7
15°	11161.8	12253.6	12798.3	12912.0	12838.6	12002.6	10747.4	9395.1	8739.1	8597.0
17.5°	11325.2	11891.2	11959.9	12076.0	12239.4	11986.0	11112.1	9781.1	9073.0	8897.7
20°	11753.9	11576.3	11292.1	11341.8	11716.1	12054.6	11761.0	10636.0	9774.0	9586.9
22.5°	12483.4	11498.2	10853.9	10811.3	11285.0	12284.4	12713.1	11794.2	10794.7	10610.1
25°	13378.5	11694.7	10692.9	10600.6	11116.8	12620.7	13748.0	13212.8	12121.0	11839.2
27.5°	14354.3	12102.1	10692.9	10602.9	11102.6	12919.1	14633.7	14468.0	13494.6	13186.7
30°	14889.6	12438.4	10846.9	10745.0	11277.9	13092.0	15107.5	15583.5	14527.2	14145.9
32.5°	15367.9	12904.9	11147.6	10955.8	11645.0	13347.8	15531.3	16530.8	15349.0	15093.3
35°	15808.4	13404.6	11562.1	11339.5	12128.1	13698.3	16000.3	17525.5	16492.9	16106.8
37.5°	16294.0	13984.8	12208.6	12019.2	12935.7	14380.3	16556.9	18832.8	17617.9	17132.3
40°	16822.1	14657.5	13272.0	13191.5	14219.3	15152.5	17260.3	20227.7	18901.5	18349.6
42.5°	17359.7	15431.9	14574.5	14707.2	15673.5	16234.7	17982.5	21300.6	19953.0	19344.3
45°	17847.5	16421.9	16267.9	16923.9	17369.2	17291.0	18517.8	22056.1	20869.5	20286.9
47.5°	18463.3	17864.1	18316.5	19327.8	19339.6	18439.6	18922.8	22674.2	21658.2	21075.5
50°	19152.5	19567.0	20961.9	21992.1	21715.0	19569.3	19396.4	23406.0	22472.9	22006.3
52.5°	19950.6	21473.4	23406.0	24549.9	23903.3	20800.9	20185.1	24197.0	23766.0	23318.3
55°	20879.0	22773.6	25843.0	26754.7	26103.5	22330.7	21383.4	25269.9	25227.2	24921.7
57.5°	21928.1	24147.3	27254.5	28488.4	27908.2	24125.9	23057.9	26281.1	26120.0	25949.6
59°	22757.0	24853.0	27877.4	29156.2	28805.7	25383.5	24182.8	26911.1	26326.1	26070.3
60°	23259.1	25331.4	28107.1	29246.2	29165.7	26131.9	24895.6	27219.0	26323.7	25968.5
62.5°	24748.8	26167.5	28019.4	28846.0	29161.0	27567.1	26986.8	27557.6	25835.9	25314.9
65°	25279.3	25890.4	26567.7	26465.8	26735.8	27493.7	28322.6	27185.8	24793.8	24052.5
67.5°	24246.7	22851.8	23091.0	22411.3	22278.7	24443.3	27780.2	25366.9	22754.7	21847.7
70°	20438.5	17506.5	17385.7	17698.3	16841.0	19789.6	24945.4	21864.2	19389.3	18361.5
72.5°	16087.9	12372.0	11353.7	12504.7	12478.6	15098.0	20722.7	15514.8	13099.1	13011.4
75°	12651.5	8613.5	7559.7	7746.7	8106.7	10929.7	16504.7	9852.1	8066.5	7351.3
77.5°	8492.8	6103.1	5693.4	5463.7	5852.1	7017.3	10441.9	5342.9	4523.5	4284.3
80°	4895.3	4433.5	5035.0	4570.8	4779.2	4421.6	5193.7	2451.2	2034.4	2202.5
82.5°	3185.4	2524.6	2690.4	1998.9	2733.0	2756.7	1667.3	724.7	613.4	651.3
85°	1991.7	1184.1	665.5	473.7	942.6	1733.6	521.0	45.0	52.1	45.0
87.5°	516.3	196.5	82.9	123.1	151.5	135.0	120.8	7.1	2.4	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)