

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: P652121

Luminaire Tested: **GALN-SA9A-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 25039.1 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

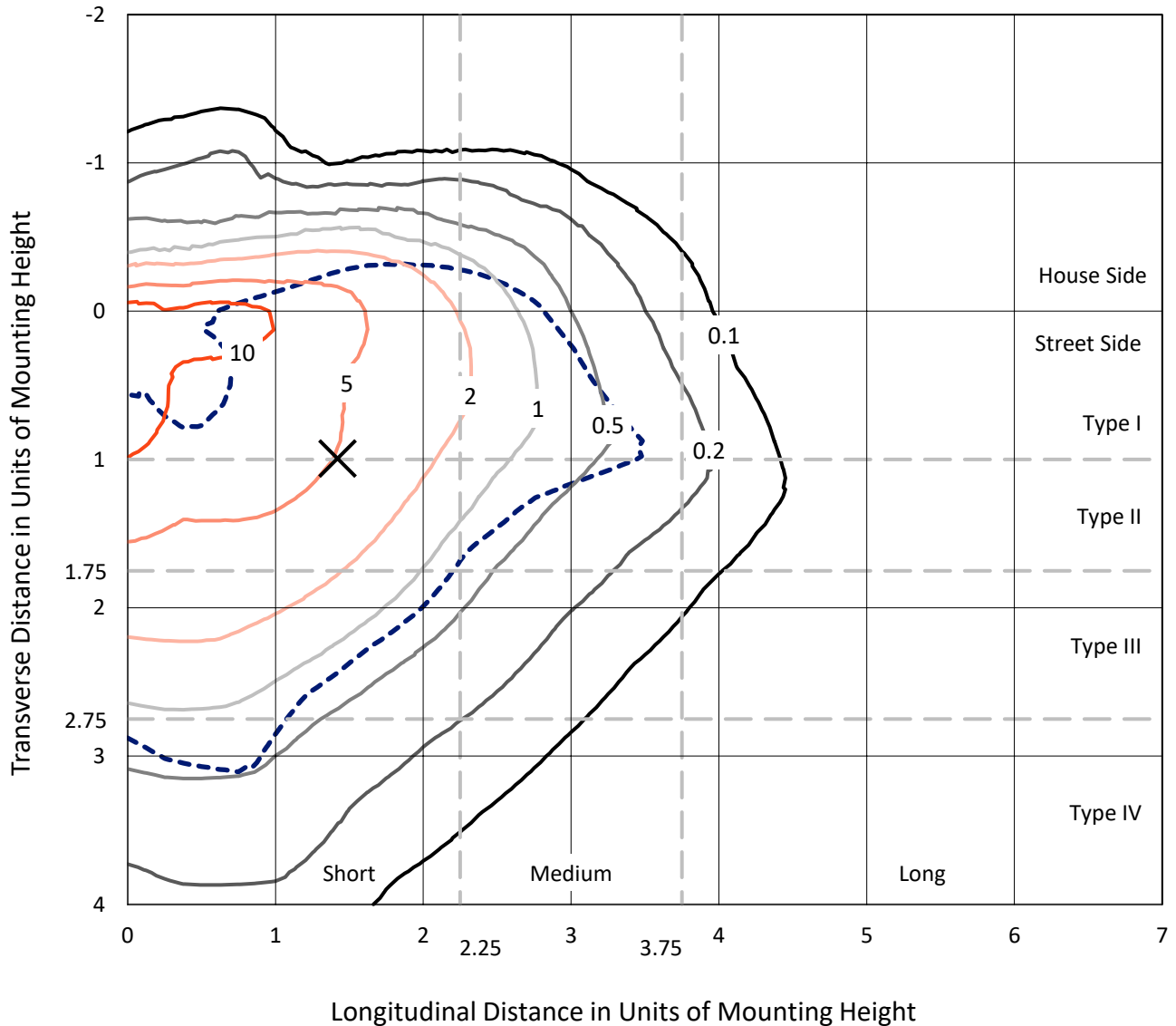
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

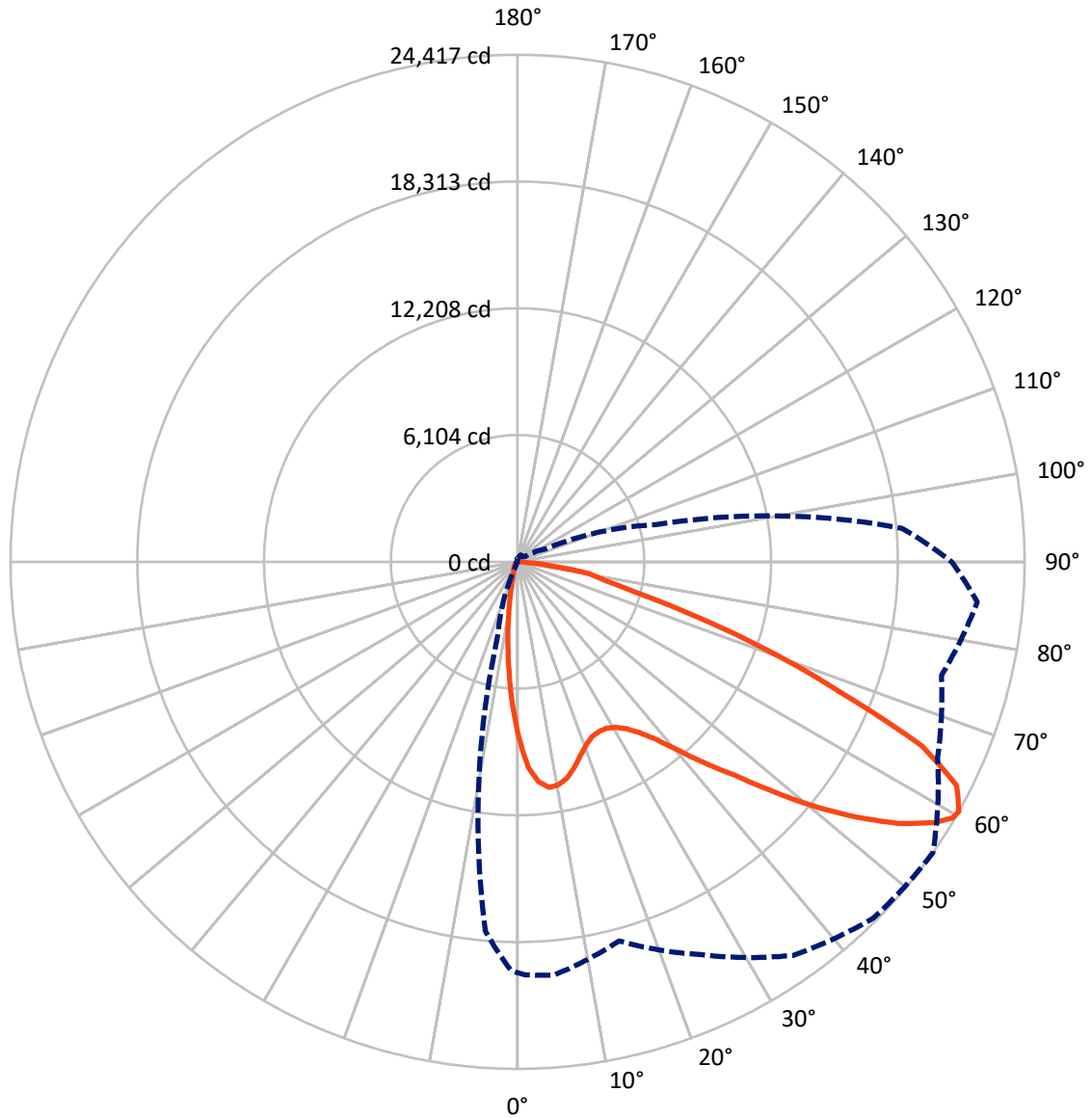
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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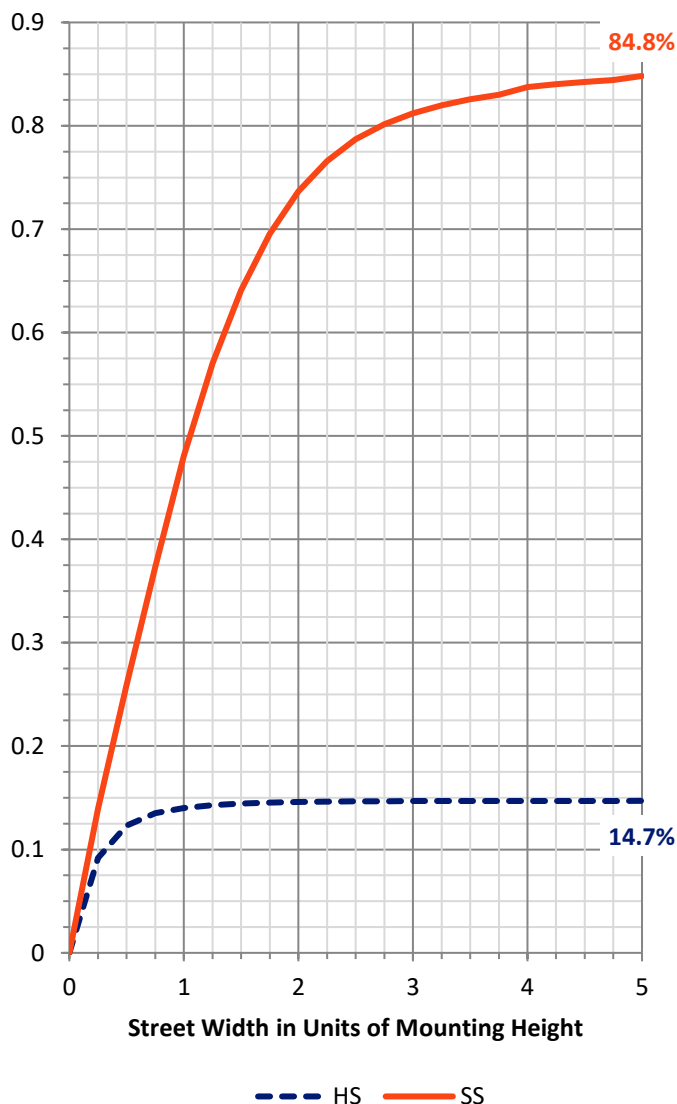
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3716.0	0.0	3716.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	21323.1	0.0	21323.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	25039.1	0.0	25039.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.8	2.5
10°-20°	1236.3	4.9
20°-30°	1830.0	7.3
30°-40°	2727.8	10.9
40°-50°	3994.9	16.0
50°-60°	5767.3	23.0
60°-70°	6067.0	24.2
70°-80°	2495.7	10.0
80°-90°	292.3	1.2
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°	25039.1	100.0
0°-180°	25039.1	100.0

Coefficient of Utilization

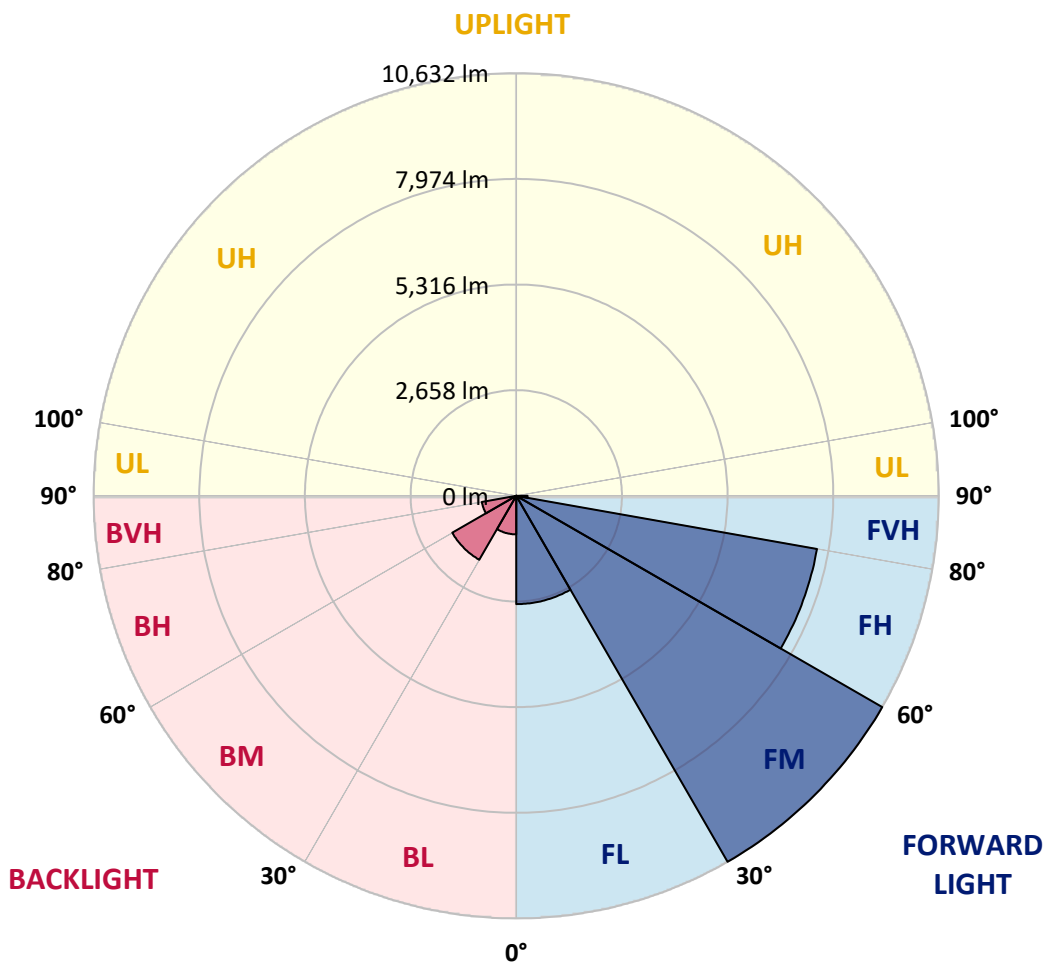


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.6	10.9			
FM (30°-60°)	10631.6	42.5			
FH (60°-80°)	7683.1	30.7			G4/12000
FVH (80°-90°)	283.7	1.1			G3/500
BL (0°-30°)	969.5	3.9	B2/1000		
BM (30°-60°)	1858.4	7.4	B2/2500		
BH (60°-80°)	879.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2
2.5°	9262.6	9247.1	9384.0	9607.6	9833.1	9950.6	9927.5	9917.8	9730.9	9594.0	9306.9
5°	9243.3	9322.3	9567.0	10172.2	10631.0	10852.6	10918.1	10642.5	10278.3	9750.2	9098.8
7.5°	8690.1	8788.4	9187.4	10133.7	10949.0	11430.8	11413.5	10972.1	10220.4	9403.3	8474.3
10°	8004.0	8119.7	8588.0	9736.7	10794.7	11430.8	11465.4	10906.6	9971.8	8923.3	7946.3
12.5°	7520.3	7657.1	8175.6	9366.6	10397.8	11024.2	11064.6	10659.8	9784.9	8738.3	7659.1
15°	7356.5	7485.6	8011.8	9179.7	9975.7	10312.9	10303.3	10261.0	9711.6	8782.6	7674.5
17.5°	7637.9	7743.8	8337.5	9264.5	9580.6	9545.9	9596.0	9800.3	9727.1	9154.6	8160.1
20°	8364.4	8472.4	9110.3	9524.7	9278.0	9058.2	9081.4	9422.6	9869.6	9854.2	8919.5
22.5°	9364.7	9547.8	10126.0	10029.6	9237.5	8755.7	8707.5	9150.8	10112.5	10659.8	9944.8
25°	10631.0	10816.0	11267.0	10835.3	9436.0	8684.4	8640.1	9067.9	10407.4	11446.2	11099.3
27.5°	11694.9	11835.5	12284.6	11619.7	9728.9	8715.2	8641.9	9079.5	10646.4	12114.9	12072.6
30°	12546.7	12650.7	12914.8	11985.8	9981.5	8850.1	8765.3	9249.1	10752.4	12440.7	12860.8
32.5°	13232.8	13408.1	13491.1	12377.1	10343.8	9104.5	8960.0	9574.8	11010.6	12843.5	13687.6
35°	14017.2	14219.5	14113.6	12751.0	10821.7	9501.5	9324.3	10102.8	11401.9	13215.5	14647.4
37.5°	15011.7	15244.9	14830.5	13144.2	11326.7	10099.0	10016.1	10844.9	11995.5	13747.4	15676.6
40°	16040.9	16175.8	15526.3	13622.1	11947.3	10968.2	11047.3	11947.3	12772.2	14385.3	16771.3
42.5°	16844.6	16971.7	16241.3	14023.0	12581.4	11999.3	12328.9	13277.1	13662.5	15038.7	17588.5
45°	17459.3	17567.3	16736.7	14460.5	13437.1	13493.0	14115.5	14647.4	14554.9	15437.6	18218.8
47.5°	17937.4	18029.9	17118.2	14930.8	14718.8	15320.1	16272.2	16497.6	15480.0	15869.3	18789.2
50°	18133.9	18160.9	17237.7	15530.2	16173.9	17648.2	18640.8	18503.9	16540.0	16349.2	19396.3
52.5°	18390.2	18384.4	17578.8	16100.6	17542.3	19729.7	20720.3	20410.1	17738.8	17068.1	20078.5
55°	19062.9	19070.6	18309.3	16910.1	18708.2	21410.3	22470.3	22244.9	19003.2	18282.3	20874.5
57.5°	19880.1	19908.9	19348.1	17856.4	19822.2	22628.4	23777.0	23690.3	20712.7	19633.3	21626.1
59°	19986.0	20043.9	19839.5	18523.2	20483.3	23002.3	24224.2	24308.9	21628.1	20523.8	22032.9
60°	19793.3	19889.6	19982.2	18901.0	20870.7	23137.2	24251.2	24416.9	22316.1	21128.9	22217.9
62.5°	18953.0	19105.2	19569.7	20063.1	21354.4	22717.0	23389.6	23736.6	23168.0	22718.9	22235.2
65°	17852.5	17931.5	18602.2	20269.4	20415.9	20755.0	20963.2	21408.4	22144.6	23331.9	21439.2
67.5°	16048.6	16281.8	17102.8	19072.5	17646.3	17245.5	17193.4	16750.1	18662.0	21871.0	19477.2
70°	13257.9	13361.9	14373.8	15636.1	13317.6	12700.9	12947.5	12781.9	14466.3	18827.7	15676.6
72.5°	10025.8	10261.0	11249.6	12463.8	9062.1	8262.3	8942.6	8881.0	10866.1	15131.2	10769.8
75°	7132.9	7285.2	8545.7	9754.0	6346.6	5377.2	5621.9	5851.3	7585.8	11947.3	6363.9
77.5°	4901.1	5032.1	5978.5	6450.6	4629.4	4434.7	4057.0	4278.6	4970.5	7088.6	3463.3
80°	2956.5	2950.6	3573.2	3688.9	3224.4	3744.7	3141.5	3527.0	3004.6	3033.6	1341.4
82.5°	1919.6	1900.3	2185.6	2382.1	1794.3	1886.8	1266.2	1825.1	1958.1	846.0	424.0
85°	859.6	896.2	1050.4	1385.7	786.3	418.2	258.3	560.9	834.5	426.0	0.0
87.5°	88.6	69.4	185.0	337.2	107.9	11.6	38.5	19.3	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°	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2
2.5°	9173.9	9062.1	8728.7	8416.5	8148.6	7821.0	7608.9	7275.6	7073.1	7011.5	7021.2
5°	8805.8	8483.9	7849.9	7343.0	6778.3	6456.4	5966.9	5496.6	5242.2	5147.8	5105.4
7.5°	8034.9	7689.9	6924.8	6128.8	5523.6	4959.0	4594.6	4180.3	3897.0	3663.8	3623.3
10°	7462.4	7009.6	6061.3	5205.6	4727.7	4303.6	3939.4	3525.1	3191.6	2925.7	2852.4
12.5°	7119.4	6612.5	5554.5	4837.5	4384.6	3949.0	3474.9	2995.1	2653.9	2366.7	2233.7
15°	7057.8	6469.9	5411.8	4573.4	4014.5	3488.4	2858.1	2339.7	1989.0	1717.2	1634.3
17.5°	7429.7	6726.2	5390.6	4297.8	3530.8	2785.0	2129.7	1699.9	1304.8	1152.5	1092.8
20°	8092.7	7179.2	5388.7	3977.9	3033.6	2145.1	1495.6	1108.2	948.2	875.0	840.3
22.5°	8996.6	7795.9	5490.9	3702.3	2517.0	1582.3	1067.7	882.7	790.2	730.4	717.0
25°	10100.9	8709.5	5741.4	3515.4	2121.9	1241.1	880.8	755.5	678.4	651.4	639.8
27.5°	11081.9	9584.5	6017.0	3322.6	1838.7	1098.6	817.2	691.9	630.2	609.1	591.6
30°	11928.0	10378.4	6150.0	3068.2	1611.2	1006.1	828.7	740.1	659.2	595.5	566.7
32.5°	12633.4	10987.5	6236.7	2836.9	1418.5	822.9	655.3	572.4	535.8	512.7	493.4
35°	13516.1	11646.7	6184.7	2705.9	1320.2	749.8	597.4	493.4	431.7	385.4	366.2
37.5°	14441.2	12305.8	6094.1	2598.0	1275.9	695.8	568.5	468.4	400.9	352.7	327.7
40°	15399.0	12916.8	5988.1	2497.8	1235.4	661.0	551.2	447.2	379.7	327.7	300.7
42.5°	16276.0	13512.3	5945.7	2432.3	1169.8	666.8	537.7	437.5	358.5	304.5	281.4
45°	16985.3	14077.0	6003.6	2397.5	1098.6	657.2	541.6	426.0	341.1	289.1	266.0
47.5°	17742.7	14874.9	6190.4	2362.9	1029.2	611.0	570.5	424.0	333.5	279.5	254.4
50°	18623.4	15896.3	6618.3	2278.1	944.4	560.9	607.1	422.1	323.8	267.9	242.9
52.5°	19797.1	17056.6	7059.7	2129.7	821.1	512.7	580.1	416.3	304.5	254.4	229.3
55°	20851.4	18278.5	7433.6	1954.3	664.9	443.3	522.3	391.2	271.7	231.3	208.1
57.5°	21287.0	18968.4	7422.0	1711.4	531.9	389.3	429.8	358.5	237.1	204.3	185.0
59°	21127.0	18881.7	7173.4	1532.2	485.7	360.4	356.6	354.6	221.6	185.0	169.6
60°	20901.5	18565.7	6905.5	1443.6	456.7	341.1	327.7	350.8	208.1	173.5	158.0
62.5°	20038.1	17255.0	6017.0	1293.2	418.2	289.1	262.1	296.8	185.0	150.4	136.8
65°	18787.3	15241.0	5093.9	1250.8	406.6	239.0	217.8	212.0	158.0	127.2	115.6
67.5°	16347.3	12897.5	4126.4	1221.9	410.5	200.4	190.8	160.0	131.0	106.0	98.3
70°	13088.2	10056.6	3378.5	1189.2	414.4	163.8	160.0	127.2	106.0	88.6	81.0
72.5°	7952.0	5961.1	2659.7	1033.0	402.8	131.0	142.6	96.4	77.1	63.6	59.7
75°	4916.5	4080.1	1649.8	803.7	266.0	96.4	100.2	59.7	52.1	40.5	40.5
77.5°	2848.6	2576.8	589.8	289.1	117.6	57.9	44.3	30.9	28.9	17.3	17.3
80°	1181.4	946.3	204.3	98.3	63.6	27.0	9.7	1.9	0.0	0.0	0.0
82.5°	345.0	306.5	55.9	44.3	19.3	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2
2.5°	6857.3	6793.7	6764.8	6863.1	6772.5	6888.1	6799.5	6838.0	6951.8	7001.8	7131.0
5°	5132.4	5066.9	5036.0	5184.4	5176.7	5249.9	5242.2	5309.7	5367.5	5238.4	5371.4
7.5°	3575.1	3530.8	3604.0	3719.7	3843.0	3802.6	3802.6	3712.0	3742.8	3723.5	3717.7
10°	2719.4	2567.2	2528.6	2524.8	2571.0	2580.6	2528.6	2403.3	2449.6	2463.1	2544.0
12.5°	2139.3	2021.8	1842.5	1761.6	1740.4	1757.7	1586.1	1476.3	1528.3	1497.5	1576.5
15°	1534.2	1437.8	1331.7	1241.1	1216.1	1181.4	994.5	863.5	848.0	853.8	867.3
17.5°	1094.7	1029.2	1029.2	932.8	880.8	776.7	682.3	624.4	618.6	624.4	634.1
20°	807.5	772.9	769.0	743.9	686.1	616.7	551.2	539.7	535.8	545.4	549.3
22.5°	695.8	659.2	628.3	626.4	572.4	514.6	483.7	468.4	470.3	474.2	483.7
25°	622.5	584.0	551.2	531.9	493.4	452.9	424.0	416.3	416.3	422.1	424.0
27.5°	570.5	522.3	493.4	466.4	431.7	397.0	372.0	366.2	362.3	366.2	375.8
30°	533.9	485.7	449.1	408.6	381.6	348.8	327.7	319.9	318.0	319.9	327.7
32.5°	456.7	427.9	399.0	362.3	329.6	308.4	285.3	271.7	271.7	275.6	283.3
35°	345.0	329.6	327.7	318.0	291.0	267.9	240.9	227.4	227.4	235.1	239.0
37.5°	304.5	275.6	271.7	267.9	256.3	225.5	200.4	188.9	187.0	192.8	200.4
40°	277.5	244.7	227.4	223.5	225.5	190.8	163.8	152.2	152.2	154.2	161.9
42.5°	256.3	217.8	187.0	183.1	190.8	160.0	133.0	121.4	121.4	121.4	131.0
45°	239.0	194.7	158.0	138.8	150.4	131.0	107.9	96.4	92.5	96.4	100.2
47.5°	227.4	177.3	138.8	111.8	111.8	104.1	86.7	73.3	69.4	71.3	77.1
50°	217.8	161.9	117.6	90.6	81.0	82.8	65.5	55.9	52.1	52.1	57.9
52.5°	202.3	146.5	102.2	77.1	61.6	55.9	48.2	40.5	38.5	40.5	44.3
55°	183.1	133.0	88.6	63.6	48.2	38.5	34.7	28.9	27.0	28.9	34.7
57.5°	161.9	111.8	71.3	50.1	32.8	25.1	23.1	19.3	15.4	17.3	21.2
59°	148.4	100.2	61.6	40.5	25.1	17.3	17.3	13.5	9.7	11.6	17.3
60°	142.6	92.5	52.1	34.7	21.2	13.5	13.5	9.7	5.8	7.7	13.5
62.5°	121.4	77.1	40.5	21.2	9.7	1.9	5.8	1.9	0.0	1.9	5.8
65°	102.2	61.6	27.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	84.8	46.3	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	67.4	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	46.3	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	0.0	0.0	0.0	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	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°	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2	8478.2
2.5°	7138.7	7414.3	7583.9	7903.8	8231.5	8483.9	8800.1	9083.3	9200.9	9262.6
5°	5506.3	5889.8	6215.5	6703.1	7156.1	7707.3	8266.2	8925.3	9177.7	9243.3
7.5°	3864.2	4255.5	4596.6	5161.3	5806.9	6545.1	7381.5	8218.0	8586.1	8690.1
10°	2790.7	3208.9	3625.2	4189.9	4793.2	5593.0	6464.2	7499.1	7923.1	8004.0
12.5°	1761.6	2210.6	2887.1	3584.8	4222.7	4866.4	5778.0	6903.6	7371.9	7520.3
15°	1021.5	1356.8	1867.5	2777.2	3588.6	4440.5	5435.0	6680.0	7204.3	7356.5
17.5°	684.2	799.8	1150.6	1846.3	2917.9	4047.3	5348.3	6863.1	7443.2	7637.9
20°	576.3	628.3	751.7	1125.5	2247.2	3696.5	5371.4	7360.3	8121.6	8364.4
22.5°	506.9	555.1	634.1	809.5	1568.8	3261.0	5481.2	8071.5	9054.5	9364.7
25°	447.2	495.3	564.7	670.7	1054.2	2758.0	5722.2	9112.2	10289.8	10631.0
27.5°	397.0	441.4	501.1	591.6	811.4	2197.1	5936.0	10126.0	11417.3	11694.9
30°	350.8	387.4	445.2	514.6	674.6	1694.1	6044.0	11012.6	12238.3	12546.7
32.5°	304.5	339.2	395.1	451.0	555.1	1291.3	5968.8	11664.0	13036.3	13232.8
35°	260.2	296.8	343.0	395.1	479.9	1042.7	5593.0	12396.3	13863.0	14017.2
37.5°	223.5	254.4	302.6	343.0	433.6	834.5	5138.2	13055.5	14790.1	15011.7
40°	188.9	219.8	267.9	304.5	399.0	657.2	4727.7	13787.9	15767.2	16040.9
42.5°	154.2	190.8	233.2	292.9	343.0	501.1	4230.4	14381.4	16501.5	16844.6
45°	123.4	163.8	210.1	291.0	298.7	381.6	3750.5	14844.0	17151.0	17459.3
47.5°	98.3	138.8	202.3	271.7	244.7	302.6	3476.9	15327.7	17690.6	17937.4
50°	79.1	115.6	212.0	239.0	204.3	256.3	3469.1	15867.4	17970.1	18133.9
52.5°	63.6	94.4	179.2	183.1	173.5	225.5	3677.3	16474.5	18255.3	18390.2
55°	54.0	79.1	117.6	134.9	156.1	204.3	3833.4	17409.3	18935.7	19062.9
57.5°	42.4	67.4	90.6	107.9	138.8	187.0	3854.6	18130.0	19797.1	19880.1
59°	36.6	57.9	81.0	96.4	127.2	175.3	3767.8	18174.3	19853.1	19986.0
60°	30.9	52.1	71.3	90.6	117.6	165.8	3673.4	17852.5	19644.9	19793.3
62.5°	23.1	40.5	52.1	73.3	96.4	142.6	3226.3	16728.9	18848.9	18953.0
65°	15.4	28.9	38.5	54.0	75.2	123.4	2628.8	15271.9	17619.3	17852.5
67.5°	9.7	21.2	30.9	40.5	61.6	104.1	1873.3	13096.0	15898.3	16048.6
70°	5.8	13.5	23.1	32.8	48.2	82.8	1112.1	10351.5	13227.0	13257.9
72.5°	3.9	9.7	15.4	23.1	38.5	75.2	539.7	6747.4	9657.7	10025.8
75°	1.9	5.8	9.7	17.3	30.9	61.6	258.3	4507.9	7026.9	7132.9
77.5°	0.0	1.9	5.8	11.6	23.1	48.2	150.4	2960.3	4791.3	4901.1
80°	0.0	0.0	3.9	9.7	17.3	30.9	90.6	1746.2	2902.5	2956.5
82.5°	0.0	0.0	1.9	7.7	11.6	23.1	46.3	767.1	1900.3	1919.6
85°	0.0	0.0	1.9	7.7	9.7	15.4	17.3	104.1	844.2	859.6
87.5°	0.0	0.0	1.9	9.7	9.7	9.7	9.7	5.8	71.3	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)