

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: P651516

Luminaire Tested: **GALN-SA7D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651516
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-SA7D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA 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: 32543.3 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

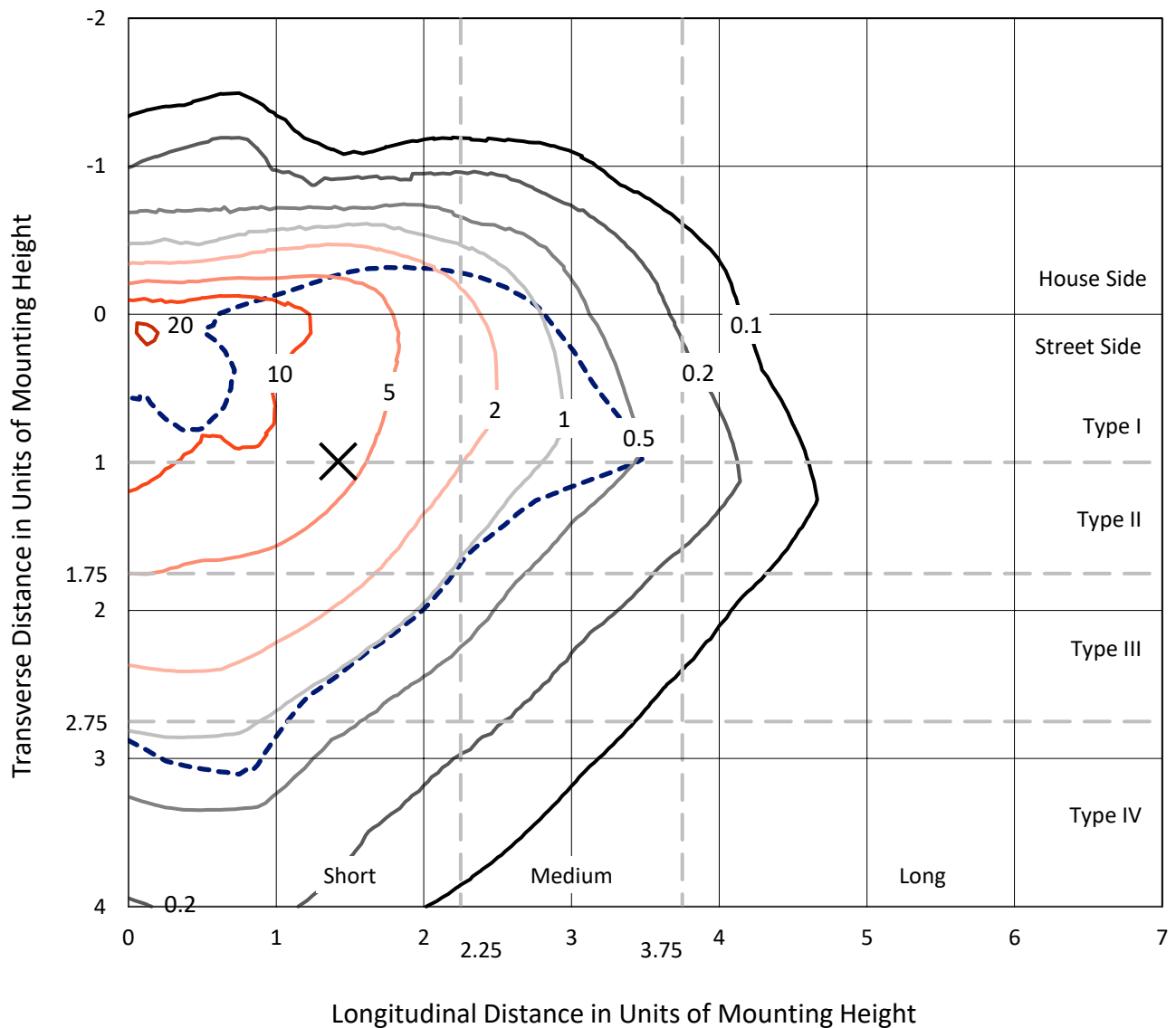
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

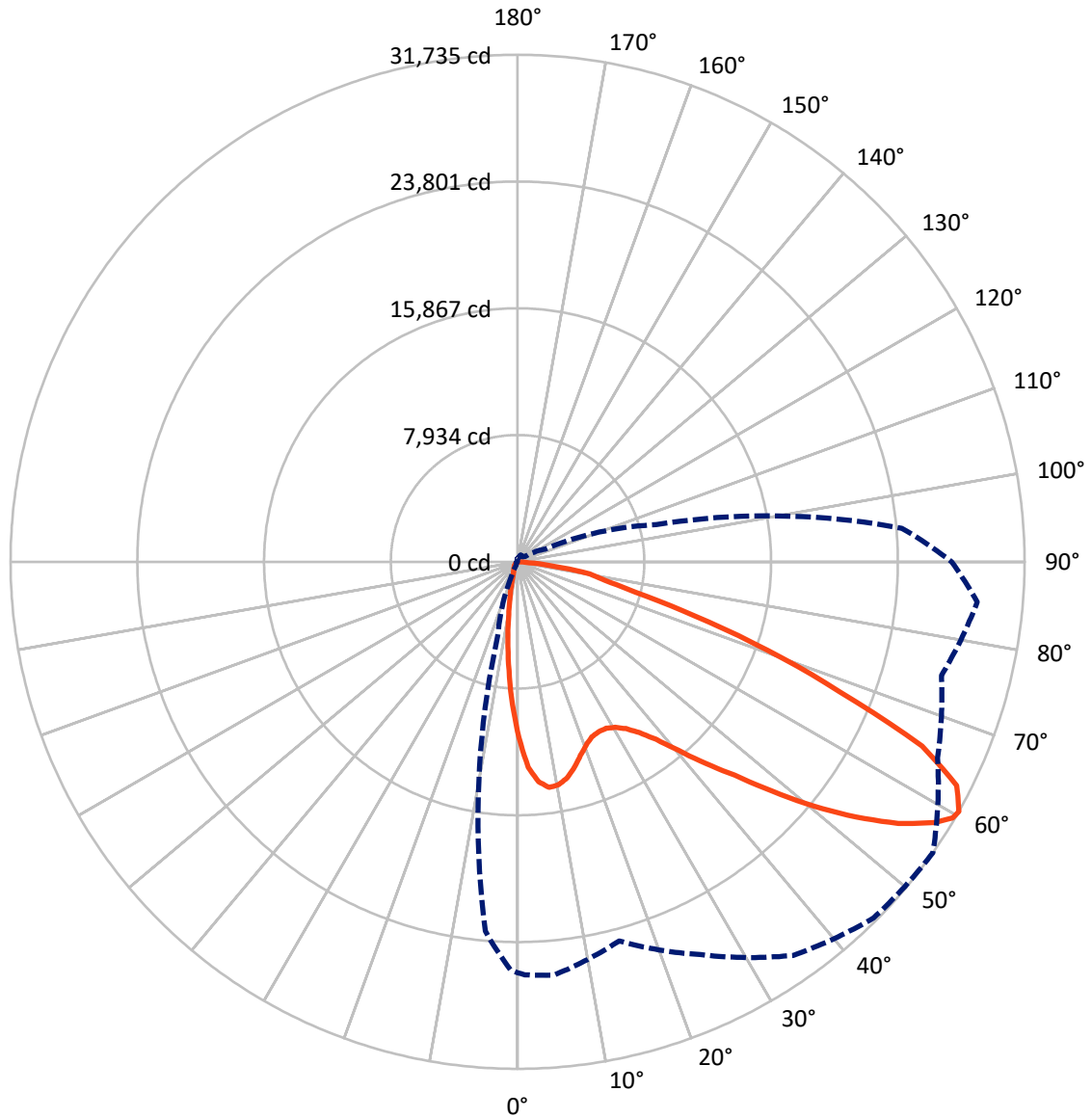
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 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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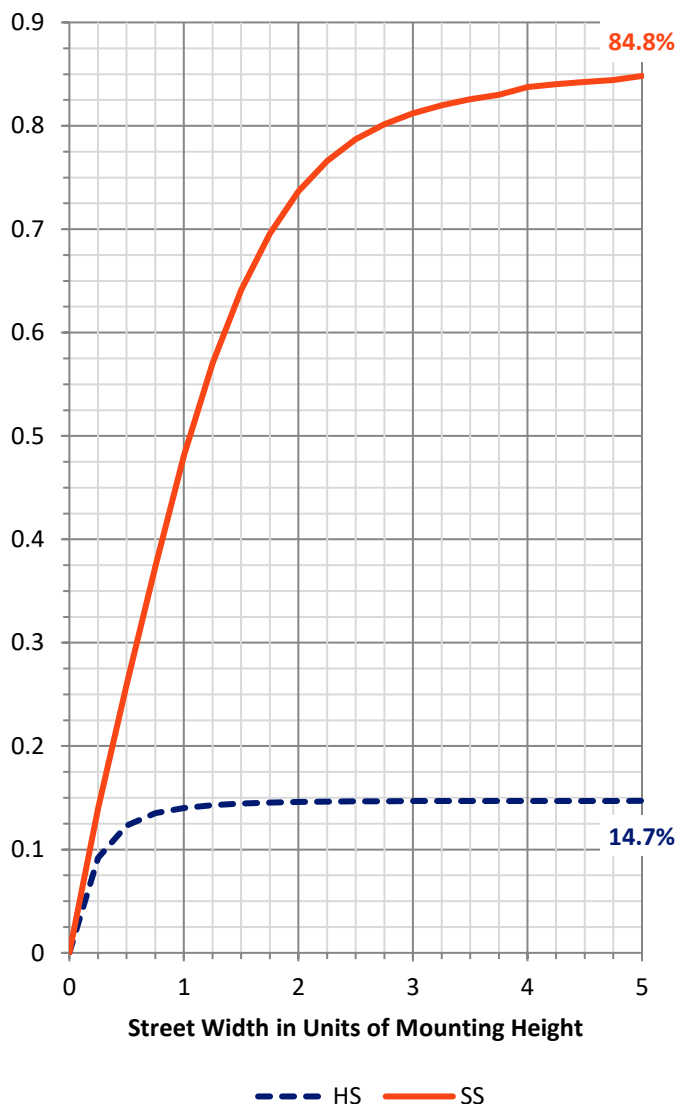
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4829.7	0.0	4829.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	27713.6	0.0	27713.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	32543.3	0.0	32543.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.0	2.5
10°-20°	1606.9	4.9
20°-30°	2378.4	7.3
30°-40°	3545.3	10.9
40°-50°	5192.1	16.0
50°-60°	7495.8	23.0
60°-70°	7885.2	24.2
70°-80°	3243.7	10.0
80°-90°	379.9	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°	32543.3	100.0
0°-180°	32543.3	100.0

Coefficient of Utilization



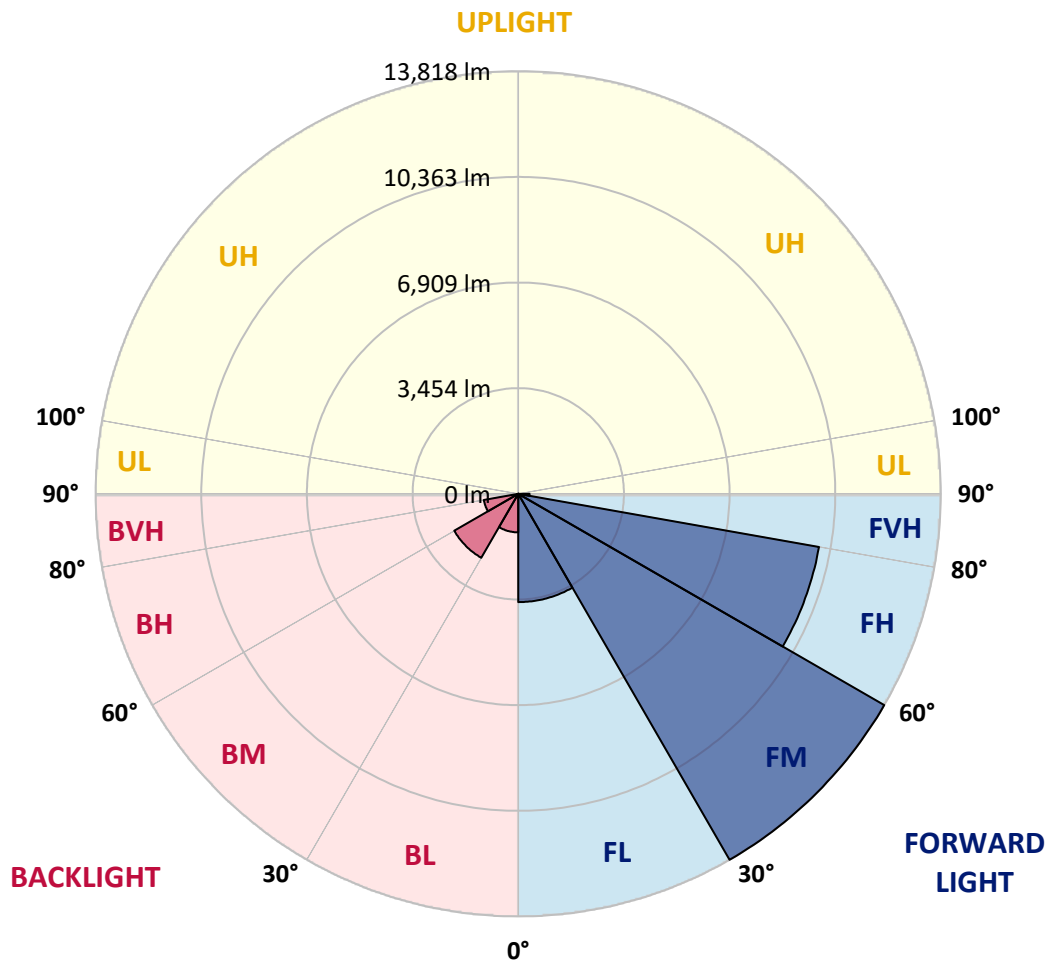
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3541.2	10.9			
FM (30°-60°)	13818.0	42.5			
FH (60°-80°)	9985.8	30.7			G4/12000
FVH (80°-90°)	368.7	1.1			G3/500
BL (0°-30°)	1260.1	3.9	B3/2500		
BM (30°-60°)	2415.3	7.4	B2/2500		
BH (60°-80°)	1143.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	11.2	0.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1
2.5°	12038.6	12018.6	12196.4	12487.0	12780.0	12932.8	12902.8	12890.3	12647.3	12469.4	12096.2
5°	12013.5	12116.2	12434.4	13220.9	13817.0	14105.2	14190.3	13832.1	13358.7	12672.4	11825.6
7.5°	11294.6	11422.4	11940.9	13170.8	14230.4	14856.6	14834.1	14260.4	13283.5	12221.4	11014.1
10°	10402.9	10553.2	11161.8	12654.8	14030.0	14856.6	14901.7	14175.3	12960.4	11597.7	10327.7
12.5°	9774.2	9952.0	10625.8	12173.8	13513.9	14328.0	14380.7	13854.6	12717.4	11357.3	9954.5
15°	9561.2	9729.0	10412.9	11930.8	12965.4	13403.8	13391.2	13336.2	12622.2	11414.9	9974.5
17.5°	9926.9	10064.8	10836.2	12041.1	12451.9	12406.8	12471.9	12737.4	12642.2	11898.3	10605.8
20°	10871.3	11011.5	11840.7	12379.3	12058.6	11773.1	11803.1	12246.5	12827.6	12807.6	11592.7
22.5°	12171.4	12409.3	13160.8	13035.5	12006.0	11379.8	11317.2	11893.3	13143.2	13854.6	12925.3
25°	13817.0	14057.6	14643.7	14082.5	12264.1	11287.1	11229.5	11785.6	13526.5	14876.6	14425.8
27.5°	15199.8	15382.6	15966.3	15102.1	12644.8	11327.2	11232.0	11800.6	13837.1	15745.9	15690.7
30°	16306.9	16442.2	16785.4	15578.0	12972.9	11502.5	11392.4	12021.1	13974.9	16169.2	16715.2
32.5°	17198.7	17426.6	17534.3	16086.5	13443.8	11833.2	11645.3	12444.4	14310.5	16692.7	17789.8
35°	18218.2	18481.2	18343.5	16572.5	14065.1	12349.2	12118.7	13130.7	14819.0	17176.2	19037.3
37.5°	19510.7	19813.8	19275.2	17083.5	14721.4	13125.7	13018.0	14095.1	15590.5	17867.5	20374.9
40°	20848.3	21023.7	20179.5	17704.6	15527.9	14255.5	14358.1	15527.9	16600.0	18696.6	21797.7
42.5°	21892.9	22058.2	21108.8	18225.7	16352.1	15595.6	16023.9	17256.3	17757.3	19545.8	22859.8
45°	22691.9	22832.2	21752.6	18794.3	17464.2	17536.9	18345.9	19037.3	18917.0	20064.3	23678.9
47.5°	23313.2	23433.4	22248.6	19405.5	19130.0	19911.5	21149.0	21442.0	20119.4	20625.4	24420.4
50°	23568.7	23603.8	22403.9	20184.5	21021.2	22937.4	24227.4	24049.6	21497.1	21249.1	25209.4
52.5°	23901.8	23894.3	22847.3	20926.0	22799.7	25642.8	26930.2	26527.0	23055.2	22183.5	26096.1
55°	24776.0	24786.0	23796.6	21978.0	24315.2	27827.0	29204.7	28911.6	24698.4	23761.5	27130.7
57.5°	25838.1	25875.7	25146.7	23208.0	25762.9	29410.1	30903.0	30790.3	26920.2	25517.5	28107.6
59°	25975.9	26051.1	25785.5	24074.6	26622.1	29896.0	31484.2	31594.4	28110.1	26674.8	28636.0
60°	25725.3	25850.7	25970.8	24565.6	27125.6	30071.4	31519.3	31734.6	29004.3	27461.3	28876.6
62.5°	24633.2	24831.1	25434.8	26076.0	27754.3	29525.3	30399.5	30850.4	30111.5	29527.8	28899.1
65°	23202.9	23305.6	24177.3	26344.1	26534.5	26975.3	27245.9	27824.5	28781.4	30324.4	27864.6
67.5°	20858.4	21161.4	22228.6	24788.6	22934.9	22413.9	22346.3	21770.1	24255.0	28425.7	25314.6
70°	17231.2	17366.5	18681.6	20322.3	17308.9	16507.3	16828.0	16612.5	18801.8	24470.4	20374.9
72.5°	13030.5	13336.2	14621.1	16199.3	11778.0	10738.6	11622.8	11542.6	14122.7	19666.0	13997.4
75°	9270.7	9468.6	11106.8	12677.3	8248.7	6988.7	7306.8	7604.9	9859.3	15527.9	8271.2
77.5°	6370.0	6540.3	7770.3	8383.9	6016.8	5763.8	5272.8	5560.9	6460.1	9213.1	4501.3
80°	3842.5	3835.0	4644.1	4794.4	4190.7	4867.0	4083.0	4584.0	3905.2	3942.7	1743.4
82.5°	2494.9	2469.8	2840.6	3096.1	2332.1	2452.3	1645.8	2372.1	2545.0	1099.7	551.1
85°	1117.2	1164.8	1365.2	1801.0	1022.0	543.5	335.6	728.9	1084.6	553.5	0.0
87.5°	115.2	90.2	240.4	438.3	140.3	15.1	50.1	25.1	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°	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1
2.5°	11923.4	11778.0	11344.8	10938.9	10590.7	10164.9	9889.4	9456.0	9193.0	9112.8	9125.4
5°	11444.9	11026.6	10202.5	9543.7	8809.7	8391.4	7755.2	7144.0	6813.4	6690.6	6635.5
7.5°	10442.9	9994.6	9000.1	7965.6	7179.0	6445.1	5971.7	5433.1	5064.9	4761.8	4709.3
10°	9699.0	9110.4	7877.9	6765.8	6144.5	5593.5	5120.0	4581.5	4148.1	3802.4	3707.3
12.5°	9253.1	8594.3	7219.1	6287.3	5698.7	5132.5	4516.3	3892.7	3449.3	3076.0	2903.2
15°	9173.0	8409.0	7033.8	5944.1	5217.7	4533.9	3714.8	3041.0	2585.1	2231.8	2124.2
17.5°	9656.4	8742.1	7006.2	5585.9	4589.0	3619.6	2767.9	2209.3	1695.8	1497.9	1420.3
20°	10518.1	9330.8	7003.7	5170.1	3942.7	2788.0	1943.8	1440.3	1232.4	1137.2	1092.1
22.5°	11692.9	10132.4	7136.5	4811.9	3271.4	2056.5	1387.7	1147.2	1027.0	949.3	931.8
25°	13128.2	11319.7	7462.1	4569.0	2757.9	1613.1	1144.8	982.0	881.7	846.6	831.7
27.5°	14403.2	12456.9	7820.3	4318.5	2389.7	1427.8	1062.1	899.3	819.1	791.5	769.0
30°	15502.8	13488.9	7993.1	3987.8	2094.1	1307.6	1077.1	961.9	856.6	774.1	736.5
32.5°	16419.7	14280.4	8105.9	3687.2	1843.6	1069.6	851.7	743.9	696.3	666.3	641.3
35°	17566.9	15137.2	8038.3	3516.9	1715.9	974.4	776.5	641.3	561.1	501.0	475.9
37.5°	18769.3	15993.8	7920.5	3376.6	1658.3	904.2	739.0	608.7	521.0	458.4	425.8
40°	20014.2	16787.9	7782.8	3246.3	1605.6	859.2	716.4	581.1	493.5	425.8	390.7
42.5°	21153.9	17561.9	7727.6	3161.2	1520.4	866.7	698.9	568.6	465.9	395.8	365.8
45°	22075.7	18295.9	7802.8	3116.1	1427.8	854.2	703.9	553.5	443.4	375.8	345.7
47.5°	23060.1	19332.9	8045.8	3071.0	1337.6	794.1	741.4	551.1	433.4	363.2	330.7
50°	24204.9	20660.4	8601.8	2960.8	1227.4	728.9	789.0	548.6	420.8	348.2	315.6
52.5°	25730.4	22168.4	9175.5	2767.9	1067.1	666.3	754.0	541.1	395.8	330.7	298.1
55°	27100.6	23756.6	9661.4	2540.0	864.2	576.2	678.9	508.5	353.2	300.6	270.5
57.5°	27666.7	24653.3	9646.4	2224.4	691.4	506.0	558.6	465.9	308.1	265.5	240.4
59°	27458.8	24540.5	9323.2	1991.4	631.3	468.4	463.4	460.9	288.0	240.4	220.4
60°	27165.7	24129.8	8975.1	1876.2	593.7	443.4	425.8	455.9	270.5	225.5	205.4
62.5°	26043.5	22426.4	7820.3	1680.8	543.5	375.8	340.7	385.8	240.4	195.4	177.9
65°	24417.8	19808.8	6620.4	1625.7	528.6	310.6	283.1	275.5	205.4	165.3	150.3
67.5°	21246.6	16762.8	5363.0	1588.1	533.5	260.5	248.0	207.9	170.3	137.8	127.7
70°	17010.8	13070.6	4391.1	1545.5	538.6	212.9	207.9	165.3	137.8	115.2	105.2
72.5°	10335.2	7747.7	3456.8	1342.7	523.5	170.3	185.4	125.2	100.2	82.7	77.6
75°	6390.0	5302.9	2144.2	1044.5	345.7	125.2	130.3	77.6	67.6	52.6	52.6
77.5°	3702.3	3349.0	766.5	375.8	152.8	75.2	57.6	40.1	37.6	22.5	22.5
80°	1535.5	1229.9	265.5	127.7	82.7	35.1	12.5	2.5	0.0	0.0	0.0
82.5°	448.3	398.3	72.7	57.6	25.1	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°	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1
2.5°	8912.5	8829.8	8792.2	8920.0	8802.2	8952.5	8837.3	8887.4	9035.2	9100.3	9268.2
5°	6670.6	6585.4	6545.3	6738.2	6728.2	6823.4	6813.4	6901.0	6976.2	6808.3	6981.1
7.5°	4646.6	4589.0	4684.2	4834.5	4994.8	4942.2	4942.2	4824.5	4864.5	4839.5	4832.0
10°	3534.4	3336.5	3286.5	3281.4	3341.5	3354.1	3286.5	3123.6	3183.8	3201.3	3306.5
12.5°	2780.4	2627.6	2394.7	2289.5	2262.0	2284.5	2061.5	1918.7	1986.4	1946.3	2049.0
15°	1993.9	1868.7	1730.9	1613.1	1580.6	1535.5	1292.5	1122.2	1102.1	1109.7	1127.2
17.5°	1422.8	1337.6	1337.6	1212.4	1144.8	1009.5	886.8	811.6	804.1	811.6	824.1
20°	1049.6	1004.5	999.4	966.9	891.7	801.6	716.4	701.4	696.3	708.9	713.9
22.5°	904.2	856.6	816.6	814.1	743.9	668.8	628.7	608.7	611.2	616.2	628.7
25°	809.1	759.0	716.4	691.4	641.3	588.6	551.1	541.1	541.1	548.6	551.1
27.5°	741.4	678.9	641.3	606.2	561.1	516.0	483.4	475.9	471.0	475.9	488.5
30°	693.8	631.3	583.7	531.0	495.9	453.4	425.8	415.8	413.4	415.8	425.8
32.5°	593.7	556.1	518.5	471.0	428.3	400.8	370.7	353.2	353.2	358.2	368.2
35°	448.3	428.3	425.8	413.4	378.3	348.2	313.1	295.6	295.6	305.6	310.6
37.5°	395.8	358.2	353.2	348.2	333.1	293.1	260.5	245.5	243.0	250.4	260.5
40°	360.7	318.2	295.6	290.6	293.1	248.0	212.9	197.9	197.9	200.4	210.4
42.5°	333.1	283.1	243.0	238.0	248.0	207.9	172.8	157.8	157.8	157.8	170.3
45°	310.6	253.0	205.4	180.4	195.4	170.3	140.3	125.2	120.3	125.2	130.3
47.5°	295.6	230.4	180.4	145.3	145.3	135.2	112.7	95.2	90.2	92.7	100.2
50°	283.1	210.4	152.8	117.7	105.2	107.7	85.2	72.7	67.6	67.6	75.2
52.5°	263.0	190.4	132.8	100.2	80.1	72.7	62.7	52.6	50.1	52.6	57.6
55°	238.0	172.8	115.2	82.7	62.7	50.1	45.1	37.6	35.1	37.6	45.1
57.5°	210.4	145.3	92.7	65.1	42.6	32.5	30.0	25.1	20.0	22.5	27.6
59°	192.8	130.3	80.1	52.6	32.5	22.5	22.5	17.5	12.5	15.1	22.5
60°	185.4	120.3	67.6	45.1	27.6	17.5	17.5	12.5	7.5	10.0	17.5
62.5°	157.8	100.2	52.6	27.6	12.5	2.5	7.5	2.5	0.0	2.5	7.5
65°	132.8	80.1	35.1	12.5	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	110.3	60.1	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	87.6	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	60.1	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	37.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.1	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°	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1	11019.1
2.5°	9278.2	9636.3	9856.8	10272.6	10698.4	11026.6	11437.4	11805.6	11958.4	12038.6
5°	7156.5	7655.0	8078.3	8712.1	9300.7	10017.2	10743.5	11600.2	11928.3	12013.5
7.5°	5022.4	5530.8	5974.2	6708.2	7547.3	8506.6	9593.8	10681.0	11159.4	11294.6
10°	3627.1	4170.7	4711.7	5445.6	6229.7	7269.3	8401.4	9746.6	10297.7	10402.9
12.5°	2289.5	2873.1	3752.4	4659.1	5488.3	6324.9	7509.7	8972.5	9581.3	9774.2
15°	1327.6	1763.5	2427.3	3609.6	4664.1	5771.3	7063.8	8682.0	9363.4	9561.2
17.5°	889.3	1039.6	1495.5	2399.7	3792.4	5260.3	6951.1	8920.0	9673.9	9926.9
20°	749.0	816.6	976.9	1462.8	2920.7	4804.4	6981.1	9566.2	10555.6	10871.3
22.5°	658.8	721.4	824.1	1052.1	2039.0	4238.3	7123.9	10490.5	11768.0	12171.4
25°	581.1	643.8	733.9	871.7	1370.2	3584.5	7437.0	11843.2	13373.7	13817.0
27.5°	516.0	573.6	651.3	769.0	1054.5	2855.6	7715.1	13160.8	14839.0	15199.8
30°	455.9	503.5	578.6	668.8	876.7	2201.8	7855.4	14313.1	15906.2	16306.9
32.5°	395.8	440.9	513.5	586.2	721.4	1678.3	7757.7	15159.7	16943.2	17198.7
35°	338.2	385.8	445.9	513.5	623.7	1355.2	7269.3	16111.5	18017.8	18218.2
37.5°	290.6	330.7	393.3	445.9	563.6	1084.6	6678.0	16968.3	19222.7	19510.7
40°	245.5	285.5	348.2	395.8	518.5	854.2	6144.5	17920.1	20492.6	20848.3
42.5°	200.4	248.0	303.1	380.7	445.9	651.3	5498.3	18691.6	21447.0	21892.9
45°	160.3	212.9	273.1	378.3	388.3	495.9	4874.5	19292.8	22291.1	22691.9
47.5°	127.7	180.4	263.0	353.2	318.2	393.3	4518.9	19921.5	22992.5	23313.2
50°	102.7	150.3	275.5	310.6	265.5	333.1	4508.9	20622.9	23355.7	23568.7
52.5°	82.7	122.7	233.0	238.0	225.5	293.1	4779.4	21411.9	23726.5	23901.8
55°	70.1	102.7	152.8	175.3	202.9	265.5	4982.3	22626.9	24610.7	24776.0
57.5°	55.1	87.6	117.7	140.3	180.4	243.0	5009.8	23563.6	25730.4	25838.1
59°	47.6	75.2	105.2	125.2	165.3	227.9	4897.1	23621.3	25803.1	25975.9
60°	40.1	67.6	92.7	117.7	152.8	215.4	4774.4	23202.9	25532.5	25725.3
62.5°	30.0	52.6	67.6	95.2	125.2	185.4	4193.2	21742.6	24498.0	24633.2
65°	20.0	37.6	50.1	70.1	97.7	160.3	3416.7	19848.9	22899.8	23202.9
67.5°	12.5	27.6	40.1	52.6	80.1	135.2	2434.8	17020.8	20662.9	20858.4
70°	7.5	17.5	30.0	42.6	62.7	107.7	1445.3	13453.8	17191.1	17231.2
72.5°	5.0	12.5	20.0	30.0	50.1	97.7	701.4	8769.7	12552.1	13030.5
75°	2.5	7.5	12.5	22.5	40.1	80.1	335.6	5859.0	9132.9	9270.7
77.5°	0.0	2.5	7.5	15.1	30.0	62.7	195.4	3847.6	6227.2	6370.0
80°	0.0	0.0	5.0	12.5	22.5	40.1	117.7	2269.4	3772.4	3842.5
82.5°	0.0	0.0	2.5	10.0	15.1	30.0	60.1	996.9	2469.8	2494.9
85°	0.0	0.0	2.5	10.0	12.5	20.0	22.5	135.2	1097.2	1117.2
87.5°	0.0	0.0	2.5	12.5	12.5	12.5	12.5	7.5	92.7	115.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)