

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: P456379

Luminaire Tested: **GALN-SA7C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456379
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-SA7C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 25852 lumens
Efficiency: N/A
Efficacy: 68.6 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

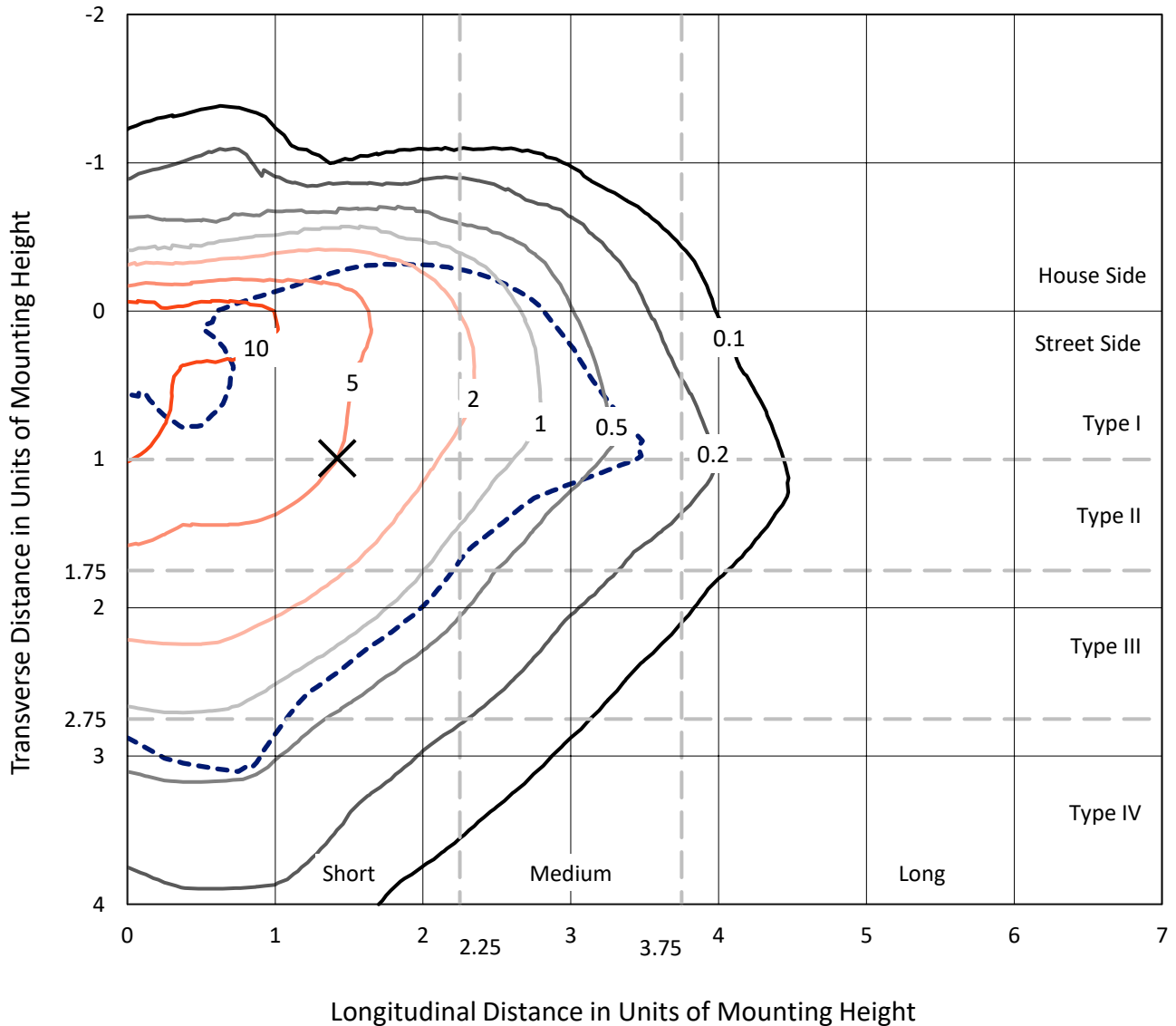
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

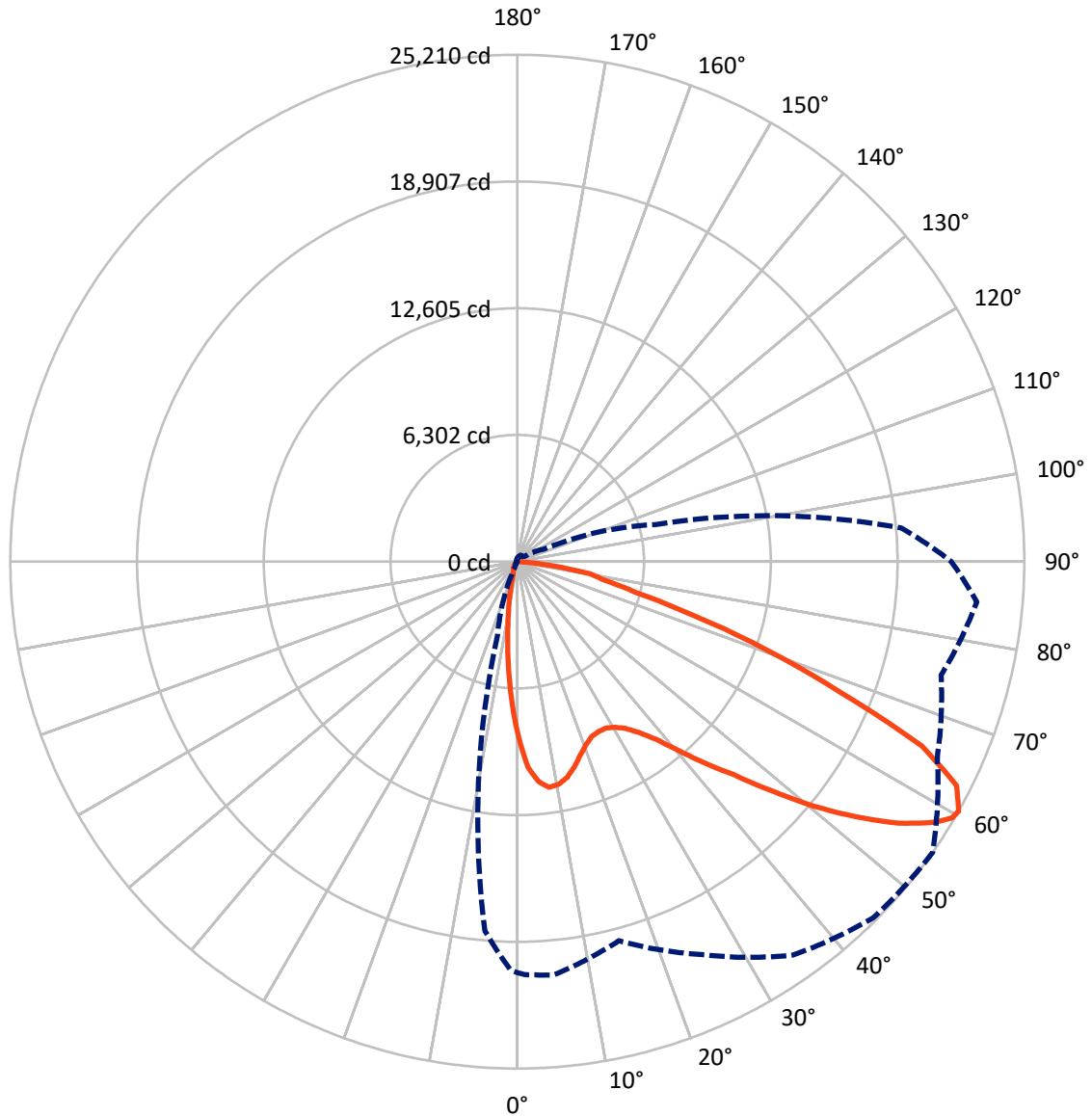
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	3836.7	0.0	3836.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	22015.3	0.0	22015.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	25852.0	0.0	25852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.2	2.5
10°-20°	1276.5	4.9
20°-30°	1889.4	7.3
30°-40°	2816.3	10.9
40°-50°	4124.6	16.0
50°-60°	5954.6	23.0
60°-70°	6263.9	24.2
70°-80°	2576.8	10.0
80°-90°	301.8	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°	25852.0	100.0
0°-180°	25852.0	100.0

Coefficient of Utilization



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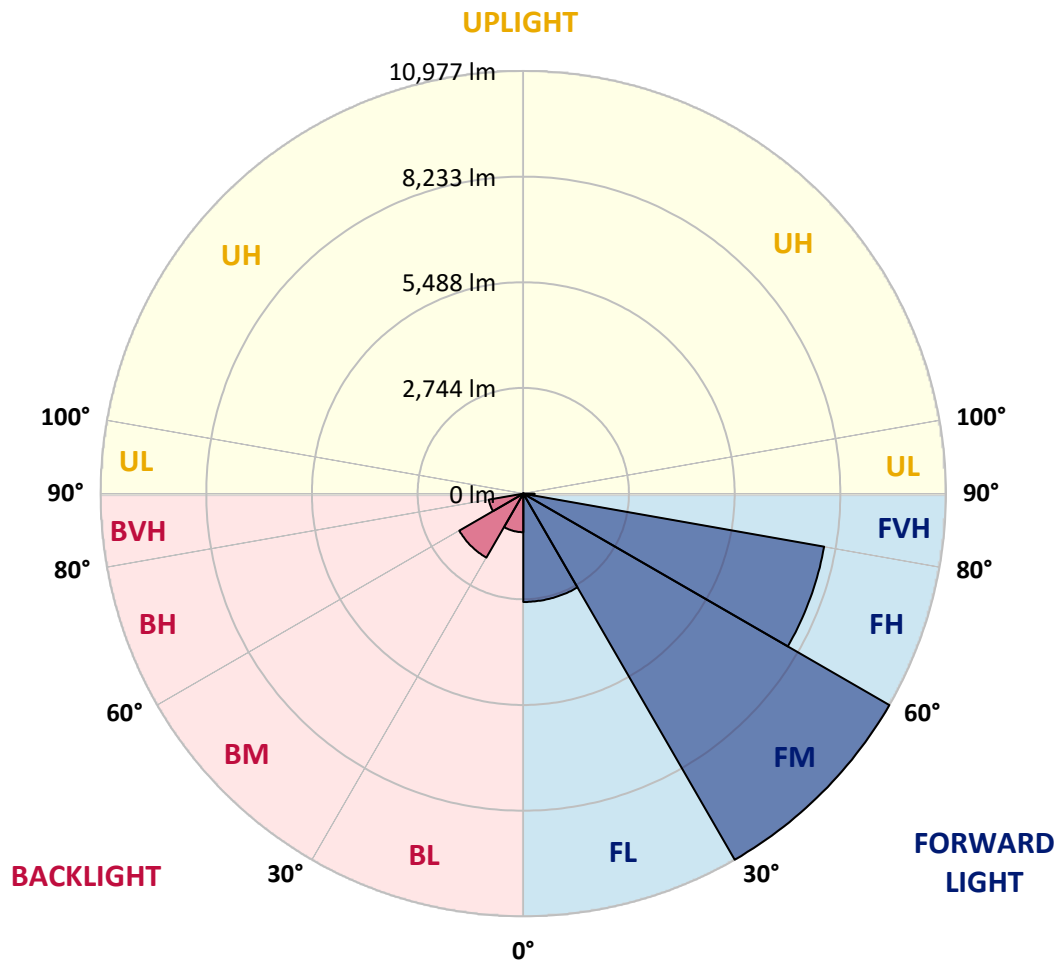
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2813.1	10.9			
FM	(30°-60°)	10976.8	42.5			
FH	(60°-80°)	7932.6	30.7			G4/12000
FVH	(80°-90°)	292.9	1.1			G3/500
BL	(0°-30°)	1001.0	3.9	B3/2500		
BM	(30°-60°)	1918.7	7.4	B2/2500		
BH	(60°-80°)	908.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.9	0.0			G0/10
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°	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4
2.5°	9563.3	9547.4	9688.7	9919.5	10152.3	10273.7	10249.8	10239.8	10046.8	9905.5	9609.1
5°	9543.4	9625.0	9877.7	10502.5	10976.1	11204.9	11272.6	10988.0	10611.9	10066.7	9394.2
7.5°	8972.3	9073.8	9485.7	10462.7	11304.4	11801.9	11784.0	11328.3	10552.3	9708.6	8749.4
10°	8263.9	8383.3	8866.8	10052.8	11145.2	11801.9	11837.7	11260.6	10295.6	9213.1	8204.2
12.5°	7764.5	7905.7	8441.0	9670.7	10735.3	11382.0	11423.8	11005.9	10102.5	9022.0	7907.7
15°	7595.3	7728.6	8271.9	9477.7	10299.5	10647.8	10637.8	10594.0	10026.9	9067.8	7923.6
17.5°	7885.8	7995.3	8608.2	9565.3	9891.6	9855.8	9907.5	10118.5	10042.8	9451.9	8425.1
20°	8636.0	8747.4	9406.1	9833.9	9579.2	9352.4	9376.2	9728.4	10190.1	10174.2	9209.1
22.5°	9668.8	9857.8	10454.8	10355.3	9537.4	9040.0	8990.2	9447.9	10440.8	11005.9	10267.7
25°	10976.1	11167.1	11632.8	11187.0	9742.4	8966.3	8920.6	9362.3	10745.3	11817.8	11459.6
27.5°	12074.5	12219.8	12683.4	11996.9	10044.8	8998.2	8922.6	9374.3	10992.0	12508.3	12464.5
30°	12954.0	13061.5	13334.1	12375.0	10305.5	9137.5	9049.9	9549.4	11101.5	12844.6	13278.4
32.5°	13662.4	13843.5	13929.1	12778.9	10679.6	9400.1	9250.9	9885.6	11368.1	13260.5	14132.0
35°	14472.3	14681.2	14571.8	13164.9	11173.1	9810.0	9627.0	10430.9	11772.0	13644.5	15123.0
37.5°	15499.1	15739.8	15312.0	13570.9	11694.4	10426.9	10341.3	11197.0	12384.9	14193.7	16185.6
40°	16561.6	16700.9	16030.4	14064.4	12335.2	11324.3	11405.9	12335.2	13186.8	14852.4	17315.8
42.5°	17391.4	17522.8	16768.6	14478.3	12989.8	12388.9	12729.2	13708.2	14106.2	15526.9	18159.5
45°	18026.2	18137.6	17280.0	14930.0	13873.3	13931.0	14573.8	15123.0	15027.5	15938.8	18810.2
47.5°	18519.7	18615.2	17674.0	15415.5	15196.6	15817.4	16800.4	17033.2	15982.6	16384.5	19399.2
50°	18722.6	18750.5	17797.4	16034.3	16698.9	18221.2	19246.0	19104.7	17077.0	16880.0	20026.0
52.5°	18987.3	18981.3	18149.6	16623.3	18111.8	20370.2	21393.0	21072.7	18314.7	17622.2	20730.4
55°	19681.8	19689.7	18903.7	17459.1	19315.6	22105.4	23199.8	22967.0	19620.1	18875.9	21552.2
57.5°	20525.5	20555.3	19976.3	18436.1	20465.8	23363.0	24549.0	24459.4	21385.1	20270.8	22328.3
59°	20634.9	20694.6	20483.7	19124.6	21148.3	23749.0	25010.6	25098.2	22330.3	21190.1	22748.1
60°	20435.9	20535.4	20630.9	19514.6	21548.2	23888.3	25038.5	25209.6	23040.6	21814.9	22939.2
62.5°	19568.3	19725.5	20205.1	20714.5	22047.7	23454.5	24149.0	24507.2	23920.2	23456.5	22957.1
65°	18432.1	18513.7	19206.2	20927.4	21078.6	21428.9	21643.8	22103.4	22863.5	24089.3	22135.3
67.5°	16569.6	16810.4	17658.1	19691.7	18219.2	17805.3	17751.6	17293.9	19267.9	22581.0	20109.6
70°	13688.3	13795.7	14840.4	16143.8	13750.0	13113.2	13367.9	13196.8	14935.9	19439.0	16185.6
72.5°	10351.3	10594.0	11614.8	12868.5	9356.3	8530.6	9233.0	9169.3	11218.9	15622.4	11119.4
75°	7364.5	7521.7	8823.1	10070.7	6552.6	5551.7	5804.4	6041.2	7832.1	12335.2	6570.5
77.5°	5060.2	5195.5	6172.6	6660.1	4779.7	4578.7	4188.7	4417.5	5131.9	7318.7	3575.8
80°	3052.5	3046.5	3689.2	3808.6	3329.0	3866.3	3243.5	3641.5	3102.2	3132.0	1384.9
82.5°	1981.9	1962.0	2256.5	2459.5	1852.6	1948.1	1307.3	1884.4	2021.7	873.6	437.8
85°	887.5	925.3	1084.5	1430.7	811.9	431.8	266.6	579.1	861.6	439.8	0.0
87.5°	91.5	71.6	191.0	348.2	111.4	11.9	39.8	19.9	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°	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4
2.5°	9471.8	9356.3	9012.1	8689.7	8413.1	8074.9	7856.0	7511.7	7302.8	7239.1	7249.1
5°	9091.7	8759.4	8104.7	7581.4	6998.4	6666.0	6160.6	5675.1	5412.4	5314.9	5271.2
7.5°	8295.7	7939.6	7149.6	6327.8	5703.0	5119.9	4743.8	4316.0	4023.5	3782.7	3740.9
10°	7704.8	7237.1	6258.1	5374.6	4881.1	4443.4	4067.3	3639.5	3295.2	3020.6	2945.0
12.5°	7350.6	6827.2	5734.8	4994.6	4526.9	4077.2	3587.7	3092.3	2740.0	2443.6	2306.3
15°	7286.9	6680.0	5587.5	4721.9	4144.9	3601.7	2951.0	2415.7	2053.5	1773.0	1687.4
17.5°	7670.9	6944.6	5565.7	4437.4	3645.4	2875.4	2198.8	1755.1	1347.1	1189.9	1128.3
20°	8355.4	7412.2	5563.7	4107.1	3132.0	2214.7	1544.1	1144.2	979.0	903.4	867.6
22.5°	9288.7	8049.0	5669.1	3822.5	2598.8	1633.7	1102.4	911.4	815.8	754.2	740.2
25°	10428.9	8992.2	5927.8	3629.5	2190.8	1281.5	909.4	780.0	700.4	672.6	660.6
27.5°	11441.7	9895.6	6212.4	3430.5	1898.3	1134.2	843.7	714.4	650.7	628.8	610.9
30°	12315.3	10715.4	6349.7	3167.9	1663.5	1038.7	855.6	764.1	680.5	614.9	585.0
32.5°	13043.6	11344.2	6439.2	2929.1	1464.5	849.7	676.6	591.0	553.2	529.3	509.4
35°	13954.9	12024.8	6385.5	2793.8	1363.1	774.1	616.9	509.4	445.7	398.0	378.1
37.5°	14910.1	12705.3	6292.0	2682.3	1317.3	718.3	587.0	483.5	413.9	364.1	338.3
40°	15899.0	13336.1	6182.5	2578.9	1275.5	682.5	569.1	461.6	392.0	338.3	310.4
42.5°	16804.4	13950.9	6138.7	2511.2	1207.8	688.5	555.2	451.7	370.1	314.4	290.5
45°	17536.7	14534.0	6198.4	2475.4	1134.2	678.5	559.2	439.8	352.2	298.5	274.6
47.5°	18318.7	15357.8	6391.4	2439.6	1062.6	630.8	589.0	437.8	344.2	288.5	262.7
50°	19228.1	16412.4	6833.2	2352.0	975.0	579.1	626.8	435.8	334.3	276.6	250.7
52.5°	20439.9	17610.3	7288.9	2198.8	847.7	529.3	598.9	429.8	314.4	262.7	236.8
55°	21528.3	18871.9	7674.9	2017.7	686.5	457.7	539.3	403.9	280.6	238.8	214.9
57.5°	21978.1	19584.3	7663.0	1767.0	549.2	402.0	443.7	370.1	244.8	210.9	191.0
59°	21812.9	19494.7	7406.3	1581.9	501.4	372.1	368.1	366.1	228.8	191.0	175.1
60°	21580.1	19168.4	7129.7	1490.4	471.6	352.2	338.3	362.2	214.9	179.1	163.2
62.5°	20688.6	17815.3	6212.4	1335.2	431.8	298.5	270.6	306.4	191.0	155.2	141.3
65°	19397.2	15735.9	5259.2	1291.4	419.9	246.7	224.9	218.9	163.2	131.3	119.4
67.5°	16878.0	13316.2	4260.3	1261.6	423.8	206.9	197.0	165.2	135.3	109.4	101.5
70°	13513.2	10383.1	3488.2	1227.7	427.8	169.1	165.2	131.3	109.4	91.5	83.6
72.5°	8210.2	6154.7	2746.0	1066.6	415.9	135.3	147.3	99.5	79.6	65.7	61.7
75°	5076.1	4212.5	1703.3	829.8	274.6	99.5	103.5	61.7	53.7	41.8	41.8
77.5°	2941.0	2660.4	608.9	298.5	121.4	59.7	45.8	31.8	29.8	17.9	17.9
80°	1219.8	977.0	210.9	101.5	65.7	27.9	9.9	2.0	0.0	0.0	0.0
82.5°	356.2	316.4	57.7	45.8	19.9	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°	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4
2.5°	7079.9	7014.3	6984.4	7085.9	6992.4	7111.8	7020.2	7060.0	7177.4	7229.2	7362.5
5°	5299.0	5231.4	5199.5	5352.7	5344.8	5420.4	5412.4	5482.1	5541.8	5408.5	5545.8
7.5°	3691.2	3645.4	3721.0	3840.4	3967.8	3926.0	3926.0	3832.5	3864.3	3844.4	3838.4
10°	2807.7	2650.5	2610.7	2606.7	2654.5	2664.4	2610.7	2481.4	2529.1	2543.0	2626.6
12.5°	2208.8	2087.4	1902.3	1818.7	1796.8	1814.8	1637.7	1524.2	1578.0	1546.1	1627.7
15°	1583.9	1484.4	1375.0	1281.5	1255.6	1219.8	1026.8	891.5	875.5	881.5	895.4
17.5°	1130.2	1062.6	1062.6	963.1	909.4	801.9	704.4	644.7	638.7	644.7	654.7
20°	833.8	797.9	794.0	768.1	708.4	636.8	569.1	557.2	553.2	563.1	567.1
22.5°	718.3	680.5	648.7	646.7	591.0	531.3	499.5	483.5	485.5	489.5	499.5
25°	642.7	602.9	569.1	549.2	509.4	467.6	437.8	429.8	429.8	435.8	437.8
27.5°	589.0	539.3	509.4	481.5	445.7	409.9	384.0	378.1	374.1	378.1	388.0
30°	551.2	501.4	463.6	421.9	394.0	360.2	338.3	330.3	328.3	330.3	338.3
32.5°	471.6	441.8	411.9	374.1	340.3	318.4	294.5	280.6	280.6	284.6	292.5
35°	356.2	340.3	338.3	328.3	300.5	276.6	248.7	234.8	234.8	242.8	246.7
37.5°	314.4	284.6	280.6	276.6	264.7	232.8	206.9	195.0	193.0	199.0	206.9
40°	286.5	252.7	234.8	230.8	232.8	197.0	169.1	157.2	157.2	159.2	167.1
42.5°	264.7	224.9	193.0	189.0	197.0	165.2	137.3	125.4	125.4	125.4	135.3
45°	246.7	201.0	163.2	143.3	155.2	135.3	111.4	99.5	95.5	99.5	103.5
47.5°	234.8	183.1	143.3	115.4	115.4	107.5	89.5	75.6	71.6	73.6	79.6
50°	224.9	167.1	121.4	93.5	83.6	85.6	67.7	57.7	53.7	53.7	59.7
52.5°	208.9	151.2	105.5	79.6	63.7	57.7	49.7	41.8	39.8	41.8	45.8
55°	189.0	137.3	91.5	65.7	49.7	39.8	35.8	29.8	27.9	29.8	35.8
57.5°	167.1	115.4	73.6	51.7	33.8	25.9	23.9	19.9	15.9	17.9	21.9
59°	153.2	103.5	63.7	41.8	25.9	17.9	17.9	13.9	9.9	11.9	17.9
60°	147.3	95.5	53.7	35.8	21.9	13.9	13.9	9.9	6.0	8.0	13.9
62.5°	125.4	79.6	41.8	21.9	9.9	2.0	6.0	2.0	0.0	2.0	6.0
65°	105.5	63.7	27.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	87.6	47.8	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	69.6	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	47.8	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	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°	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4	8753.4
2.5°	7370.5	7655.0	7830.1	8160.4	8498.7	8759.4	9085.7	9378.2	9499.6	9563.3
5°	5685.0	6081.0	6417.3	6920.8	7388.4	7957.5	8534.5	9215.1	9475.7	9543.4
7.5°	3989.7	4393.6	4745.8	5328.9	5995.5	6757.6	7621.2	8484.8	8864.8	8972.3
10°	2881.3	3313.1	3742.9	4326.0	4948.8	5774.6	6674.0	7742.6	8180.3	8263.9
12.5°	1818.7	2282.4	2980.8	3701.1	4359.8	5024.4	5965.6	7127.7	7611.2	7764.5
15°	1054.6	1400.9	1928.2	2867.4	3705.1	4584.6	5611.4	6896.9	7438.1	7595.3
17.5°	706.4	825.8	1187.9	1906.3	3012.7	4178.7	5521.9	7085.9	7684.9	7885.8
20°	595.0	648.7	776.0	1162.1	2320.2	3816.6	5545.8	7599.3	8385.3	8636.0
22.5°	523.3	573.1	654.7	835.7	1619.8	3366.9	5659.2	8333.6	9348.4	9668.8
25°	461.6	511.4	583.0	692.5	1088.5	2847.5	5907.9	9408.1	10623.9	10976.1
27.5°	409.9	455.7	517.4	610.9	837.7	2268.4	6128.8	10454.8	11788.0	12074.5
30°	362.2	400.0	459.7	531.3	696.5	1749.1	6240.2	11370.1	12635.6	12954.0
32.5°	314.4	350.2	407.9	465.6	573.1	1333.2	6162.6	12042.7	13459.4	13662.4
35°	268.6	306.4	354.2	407.9	495.5	1076.5	5774.6	12798.8	14313.1	14472.3
37.5°	230.8	262.7	312.4	354.2	447.7	861.6	5305.0	13479.3	15270.2	15499.1
40°	195.0	226.8	276.6	314.4	411.9	678.5	4881.1	14235.5	16279.1	16561.6
42.5°	159.2	197.0	240.8	302.5	354.2	517.4	4367.8	14848.4	17037.2	17391.4
45°	127.4	169.1	216.9	300.5	308.4	394.0	3872.3	15325.9	17707.8	18026.2
47.5°	101.5	143.3	208.9	280.6	252.7	312.4	3589.7	15825.4	18265.0	18519.7
50°	81.6	119.4	218.9	246.7	210.9	264.7	3581.8	16382.6	18553.5	18722.6
52.5°	65.7	97.5	185.1	189.0	179.1	232.8	3796.7	17009.4	18848.0	18987.3
55°	55.7	81.6	121.4	139.3	161.2	210.9	3957.8	17974.4	19550.4	19681.8
57.5°	43.8	69.6	93.5	111.4	143.3	193.0	3979.7	18718.7	20439.9	20525.5
59°	37.8	59.7	83.6	99.5	131.3	181.1	3890.2	18764.4	20497.6	20634.9
60°	31.8	53.7	73.6	93.5	121.4	171.1	3792.7	18432.1	20282.7	20435.9
62.5°	23.9	41.8	53.7	75.6	99.5	147.3	3331.0	17272.0	19460.9	19568.3
65°	15.9	29.8	39.8	55.7	77.6	127.4	2714.2	15767.7	18191.3	18432.1
67.5°	9.9	21.9	31.8	41.8	63.7	107.5	1934.1	13521.1	16414.4	16569.6
70°	6.0	13.9	23.9	33.8	49.7	85.6	1148.2	10687.6	13656.4	13688.3
72.5°	4.0	9.9	15.9	23.9	39.8	77.6	557.2	6966.5	9971.2	10351.3
75°	2.0	6.0	9.9	17.9	31.8	63.7	266.6	4654.3	7255.0	7364.5
77.5°	0.0	2.0	6.0	11.9	23.9	49.7	155.2	3056.4	4946.8	5060.2
80°	0.0	0.0	4.0	9.9	17.9	31.8	93.5	1802.8	2996.7	3052.5
82.5°	0.0	0.0	2.0	8.0	11.9	23.9	47.8	792.0	1962.0	1981.9
85°	0.0	0.0	2.0	8.0	9.9	15.9	17.9	107.5	871.6	887.5
87.5°	0.0	0.0	2.0	9.9	9.9	9.9	9.9	6.0	73.6	91.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)