

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: P647063

Luminaire Tested: **GALN-SA7C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21196.6 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

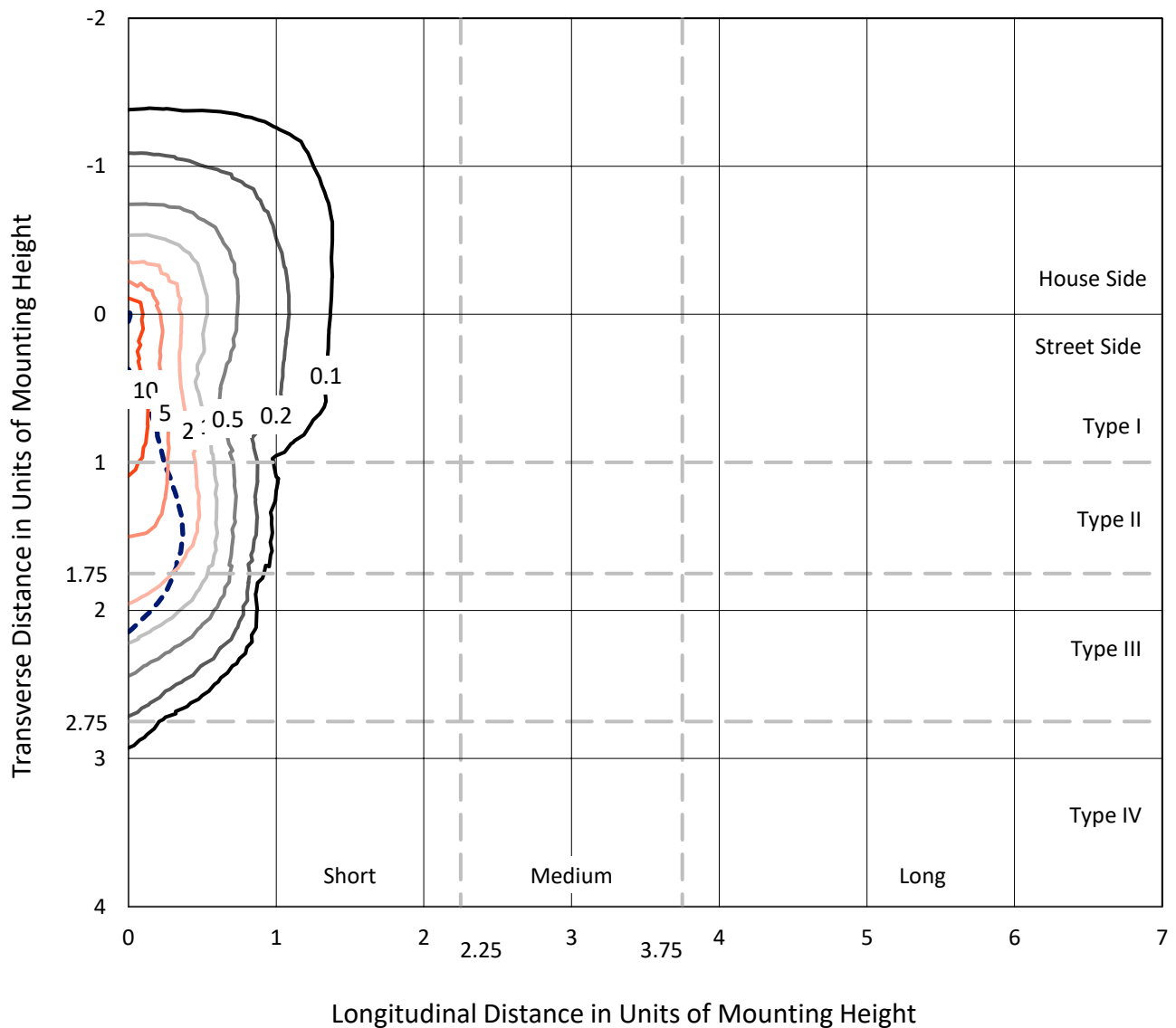
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

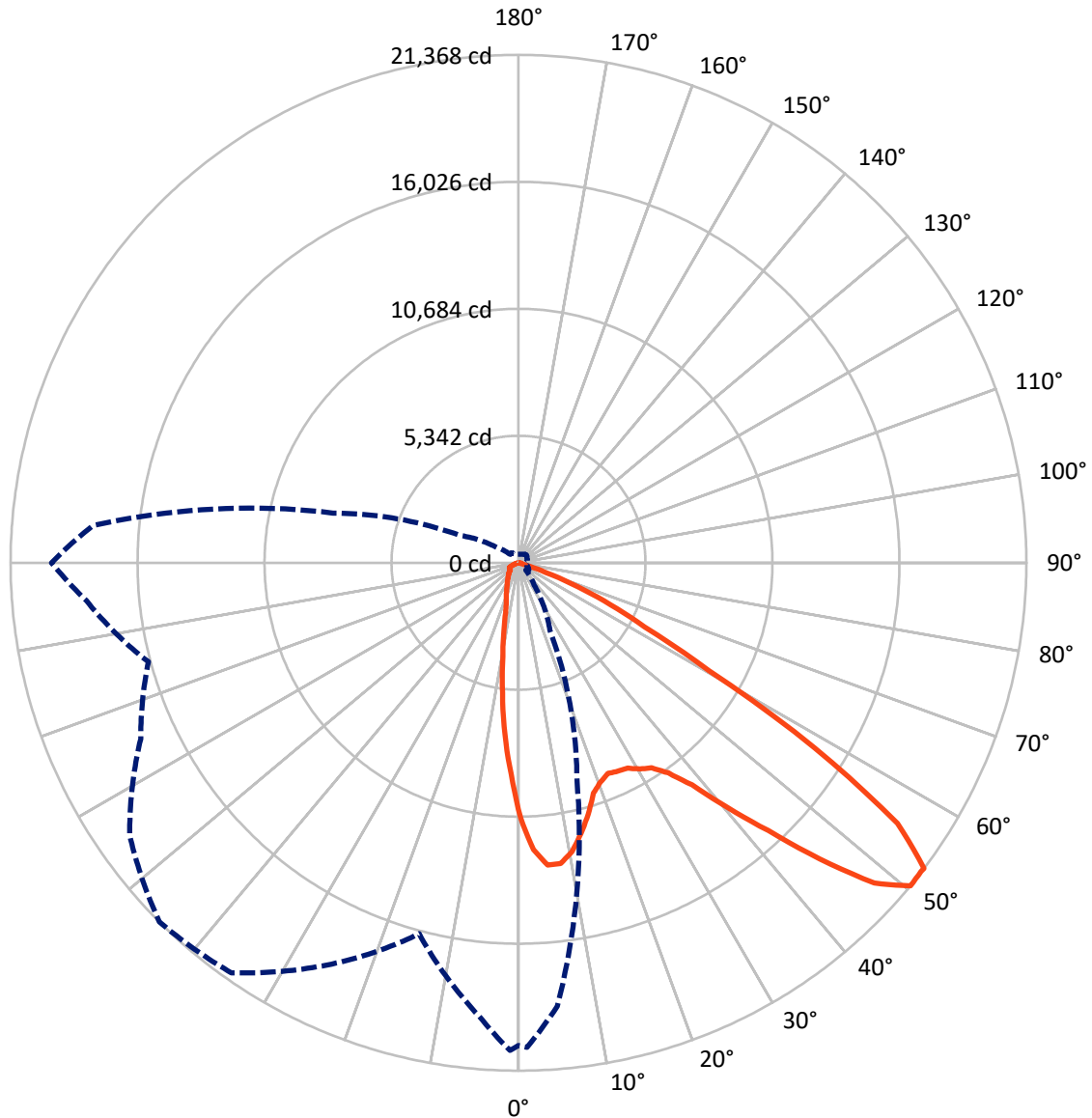
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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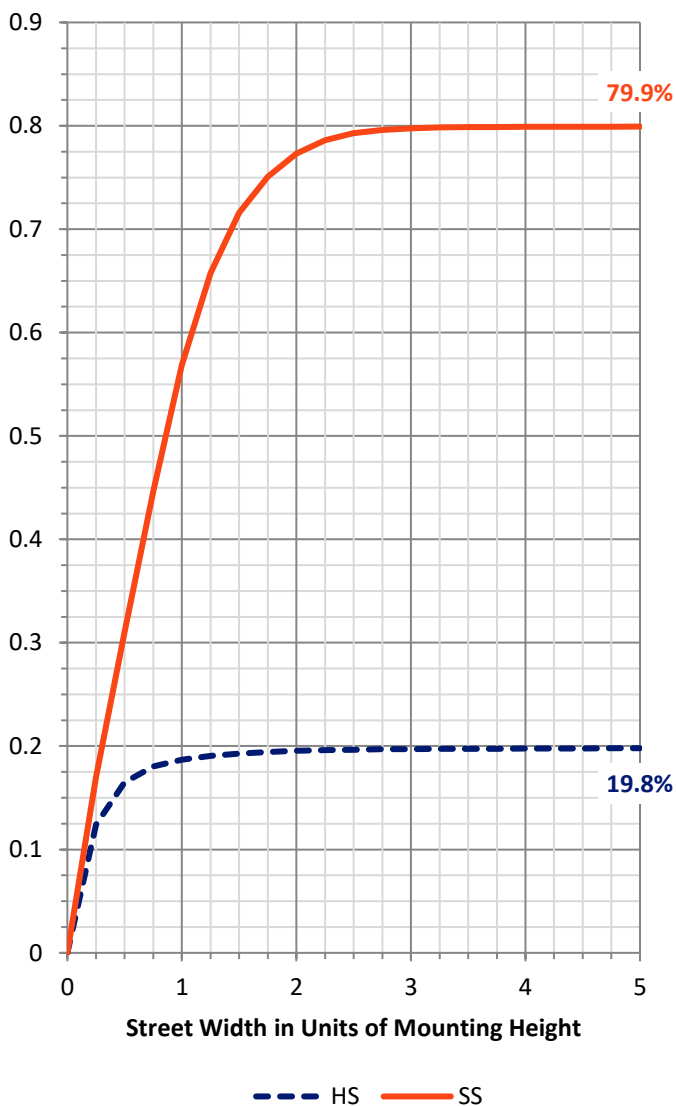
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4245.7	0.0	4245.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	16950.9	0.0	16950.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	21196.6	0.0	21196.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.5	3.7
10°-20°	1557.2	7.3
20°-30°	2339.4	11.0
30°-40°	3511.4	16.6
40°-50°	4935.0	23.3
50°-60°	5323.2	25.1
60°-70°	2471.6	11.7
70°-80°	232.5	1.1
80°-90°	42.9	0.2
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°	21196.6	100.0
0°-180°	21196.6	100.0

Coefficient of Utilization

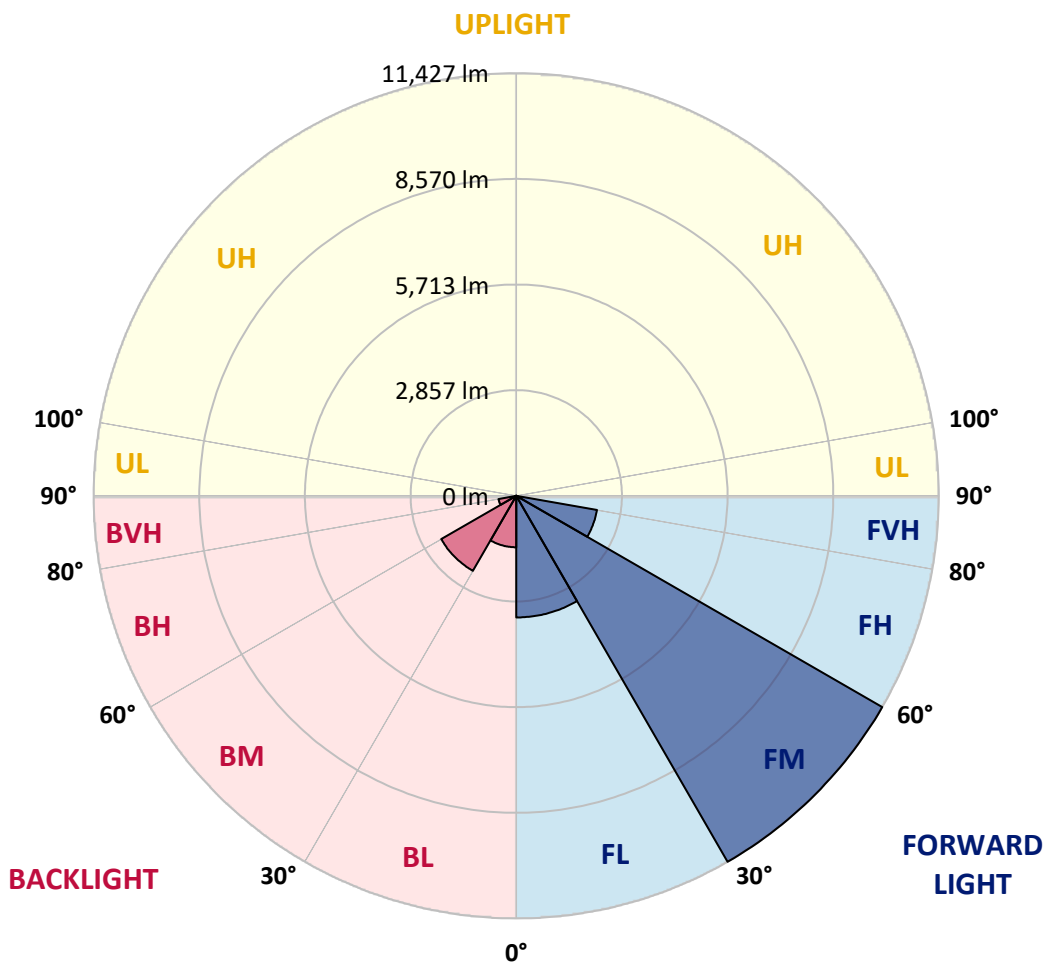


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.5	15.5			
FM (30°-60°)	11426.6	53.9			
FH (60°-80°)	2216.6	10.5			G2/5000
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1391.6	6.6	B3/2500		
BM (30°-60°)	2343.0	11.1	B2/2500		
BH (60°-80°)	487.5	2.3	B1/500		G1/500
BVH (80°-90°)	23.6	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3
2.5°	11174.1	11001.7	10783.0	10602.1	10333.0	9790.5	9643.3	9466.6	9319.5	9121.8	8844.2
5°	10160.6	10105.9	10004.9	9323.7	8831.6	8175.5	7637.2	7410.2	7111.5	6867.6	6691.0
7.5°	9386.8	9168.1	8848.4	8162.9	7376.5	6674.2	6077.0	5728.0	5332.6	5198.0	4958.3
10°	8558.3	8608.7	8137.7	7174.6	6224.2	5656.5	5286.3	4949.9	4592.5	4356.9	4016.3
12.5°	8293.3	8129.3	7767.6	6577.4	5765.8	5235.9	4785.9	4369.5	3991.0	3612.5	3284.5
15°	8465.7	8213.4	7708.7	6451.3	5412.5	4752.3	4188.7	3625.1	3276.1	2792.5	2451.8
17.5°	9084.0	8882.1	8205.0	6585.9	5231.7	4289.7	3452.7	2872.4	2338.3	1900.9	1728.5
20°	10114.3	9828.3	8978.8	6758.3	4962.5	3730.3	2800.9	2085.9	1581.3	1396.2	1299.5
22.5°	11123.6	10968.0	9895.6	7090.5	4722.8	3234.0	2102.7	1404.6	1181.8	1148.1	1085.0
25°	13045.6	12578.7	11296.0	7692.0	4537.8	2767.3	1585.5	1131.3	1000.9	975.7	984.1
27.5°	14189.4	13798.3	12591.3	8091.4	4331.7	2409.8	1341.6	1038.7	950.5	895.8	874.8
30°	15287.1	14832.9	13234.8	8327.0	3890.1	2031.3	1190.2	996.7	975.7	895.8	870.5
32.5°	16132.5	15686.6	14164.2	8680.3	3709.3	1787.4	979.9	778.0	723.3	715.0	790.7
35°	17427.7	16952.5	14959.1	8873.7	3570.5	1661.2	849.6	693.9	630.9	605.6	609.8
37.5°	18634.7	18310.9	15695.1	8949.4	3423.3	1623.3	761.2	622.4	567.8	550.9	546.7
40°	19644.1	18920.7	16393.2	9029.2	3360.2	1551.8	706.5	567.8	529.9	504.6	504.6
42.5°	20106.7	19370.7	17175.4	8983.0	3343.4	1438.3	706.5	521.5	492.0	466.8	462.6
45°	20005.7	19707.2	17524.5	8962.0	3343.4	1324.8	643.5	508.9	466.8	433.2	424.8
47.5°	20266.5	19875.4	17961.9	9050.3	3276.1	1244.8	542.5	534.1	441.6	399.5	391.1
50°	20312.7	20388.5	18723.0	9508.7	3128.9	1143.9	424.8	525.7	424.8	361.7	353.3
52°	20615.5	20144.5	18954.3	9752.7	2973.3	1068.2	357.4	450.0	407.9	336.5	328.0
52.5°	20199.2	20506.2	19009.0	9841.0	2990.1	1017.7	344.8	441.6	399.5	336.5	315.4
55°	19732.4	20026.8	18786.1	10030.2	2742.0	799.1	269.1	319.6	361.7	294.4	281.8
57.5°	17150.2	17448.8	16325.9	9184.9	2233.1	563.5	222.9	239.7	319.6	273.3	260.7
60°	15245.1	15030.5	13701.6	7662.5	1585.5	315.4	176.6	185.0	349.1	252.4	248.1
62.5°	13932.9	13474.6	11451.7	5917.2	967.2	210.3	138.7	143.0	269.1	235.5	235.5
65°	10307.7	9794.7	7607.8	3578.9	475.2	147.2	105.2	113.5	168.2	201.9	201.9
67.5°	5883.5	5685.9	3675.6	1614.9	197.6	92.6	79.9	88.3	130.4	164.0	155.6
70°	2704.2	2426.6	1413.1	340.7	92.6	63.1	63.1	71.5	105.2	122.0	113.5
72.5°	790.7	748.5	344.8	54.7	37.8	37.8	42.0	54.7	79.9	92.6	84.1
75°	58.9	37.8	25.2	16.8	16.8	25.2	33.7	54.7	79.9	88.3	71.5
77.5°	4.2	8.4	4.2	4.2	12.6	25.2	37.8	67.3	105.2	109.3	79.9
80°	4.2	4.2	0.0	4.2	12.6	25.2	42.0	75.7	117.8	126.1	67.3
82.5°	0.0	0.0	0.0	4.2	16.8	33.7	50.5	79.9	109.3	134.6	71.5
85°	0.0	0.0	0.0	4.2	25.2	46.3	58.9	21.1	12.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3
2.5°	9041.9	8932.5	8890.5	8928.3	8915.7	8903.1	9134.4	9084.0	9075.5	9151.2	9134.4
5°	6787.7	6594.3	7124.2	6909.7	7132.6	7267.2	7292.4	7305.0	7460.6	7296.6	7511.1
7.5°	4836.4	4886.9	4882.6	5025.6	5282.1	5509.3	5643.9	5538.7	5530.3	5509.3	5416.7
10°	3864.9	3776.6	3759.7	3726.1	3806.0	3999.5	4163.4	4033.1	3940.6	4066.7	4028.9
12.5°	3158.4	3036.4	2969.1	2834.5	2838.8	2969.1	2969.1	2969.1	3061.6	3133.1	3187.8
15°	2422.4	2321.4	2321.4	2186.8	2157.4	2161.6	2229.0	2237.3	2384.5	2426.6	2447.7
17.5°	1694.8	1640.2	1703.3	1757.9	1724.2	1732.7	1757.9	1766.3	1787.4	1770.5	1812.6
20°	1303.7	1295.3	1312.2	1408.9	1480.3	1522.4	1492.9	1450.9	1425.7	1366.8	1366.8
22.5°	1106.1	1122.9	1152.3	1232.2	1324.8	1350.0	1316.3	1219.6	1143.9	1135.5	1139.7
25°	984.1	1000.9	1047.2	1097.6	1148.1	1190.2	1156.5	1085.0	1043.0	1005.1	1005.1
27.5°	908.4	916.8	942.0	979.9	1022.0	1055.6	1043.0	1005.1	958.9	942.0	904.2
30°	849.6	862.2	891.6	900.0	937.8	954.6	933.6	925.2	895.8	874.8	862.2
32.5°	820.1	815.9	836.9	845.3	849.6	862.2	836.9	849.6	845.3	811.7	799.1
35°	618.2	651.8	706.5	752.8	765.4	782.2	778.0	761.2	715.0	677.1	630.9
37.5°	555.1	576.1	605.6	643.5	693.9	715.0	706.5	664.5	609.8	584.6	576.1
40°	513.1	525.7	550.9	576.1	626.6	664.5	635.0	597.2	555.1	534.1	521.5
42.5°	475.2	479.4	492.0	517.2	555.1	614.0	563.5	513.1	496.3	483.7	475.2
45°	433.2	433.2	450.0	462.6	504.6	559.3	508.9	462.6	454.2	445.8	441.6
47.5°	399.5	403.7	412.2	428.9	462.6	500.5	466.8	428.9	407.9	403.7	395.3
50°	357.4	361.7	378.5	395.3	437.4	458.4	437.4	395.3	374.3	361.7	361.7
52°	323.8	336.5	353.3	386.9	416.3	450.0	424.8	378.5	353.3	340.7	332.2
52.5°	319.6	328.0	344.8	382.7	416.3	445.8	420.5	374.3	344.8	336.5	328.0
55°	286.0	298.6	328.0	374.3	412.2	445.8	412.2	370.1	328.0	307.0	298.6
57.5°	273.3	281.8	319.6	378.5	407.9	445.8	412.2	370.1	328.0	290.2	281.8
60°	260.7	277.6	319.6	365.9	403.7	450.0	416.3	365.9	319.6	273.3	273.3
62.5°	248.1	260.7	315.4	357.4	386.9	433.2	399.5	357.4	307.0	260.7	256.5
65°	214.5	235.5	277.6	298.6	332.2	374.3	340.7	311.2	269.1	231.3	227.1
67.5°	164.0	172.4	206.1	231.3	252.4	290.2	273.3	235.5	206.1	176.6	176.6
70°	113.5	122.0	147.2	159.8	180.9	201.9	189.3	159.8	138.7	122.0	117.8
72.5°	79.9	84.1	92.6	100.9	109.3	117.8	113.5	92.6	79.9	75.7	71.5
75°	63.1	71.5	75.7	71.5	67.3	63.1	63.1	54.7	46.3	42.0	42.0
77.5°	63.1	67.3	63.1	54.7	46.3	42.0	37.8	33.7	25.2	21.1	25.2
80°	54.7	54.7	54.7	46.3	42.0	37.8	33.7	29.4	25.2	21.1	21.1
82.5°	58.9	58.9	54.7	46.3	46.3	37.8	37.8	33.7	29.4	21.1	21.1
85°	0.0	0.0	0.0	8.4	21.1	37.8	37.8	33.7	29.4	25.2	25.2
87.5°	0.0	0.0	0.0	0.0	4.2	8.4	16.8	21.1	25.2	25.2	25.2
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°	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3
2.5°	9285.8	9445.6	9748.4	10051.2	10236.2	10454.9	10850.3	11060.6	11333.9	11468.5	11733.4
5°	7481.6	7860.1	7994.7	8339.6	8709.6	9079.7	9668.5	10316.2	10854.5	11224.5	11704.0
7.5°	5458.8	5547.1	6068.6	6299.9	6905.5	7578.3	8381.6	9197.5	9878.8	10484.4	10850.3
10°	4092.0	4415.8	4743.8	5185.4	5673.2	6367.2	7136.8	8036.8	8919.9	9525.5	9988.1
12.5°	3288.8	3545.3	3982.7	4457.9	5059.3	5517.6	6291.5	7183.1	8327.0	8919.9	9529.7
15°	2489.7	2817.7	3314.0	3806.0	4441.0	4924.7	5706.9	6829.8	8301.8	9117.6	9643.3
17.5°	1846.2	2069.2	2514.9	3065.8	3713.5	4394.7	5450.4	6791.9	8583.5	9554.9	10097.5
20°	1413.1	1488.8	1770.5	2262.6	2964.9	3856.5	5034.0	6955.9	9416.2	10619.0	11169.9
22.5°	1143.9	1177.6	1286.9	1627.5	2308.8	3385.5	4836.4	7069.5	10354.0	11893.2	12629.2
25°	996.7	988.3	1059.8	1207.0	1804.2	2943.8	4584.0	7498.5	11502.1	13390.4	14050.7
27.5°	908.4	908.4	942.0	1047.2	1497.2	2657.9	4424.2	7805.5	12658.7	14706.8	15064.2
30°	862.2	870.5	967.2	1000.9	1244.8	2317.2	4159.3	8116.7	13764.7	15547.9	16039.9
32.5°	799.1	765.4	744.4	828.5	1047.2	2010.3	3894.3	8247.0	14660.5	16578.2	16998.8
35°	614.0	597.2	622.4	685.5	900.0	1749.5	3599.9	8394.2	15690.9	17772.6	17856.7
37.5°	555.1	550.9	567.8	622.4	757.0	1522.4	3389.7	8356.4	16477.3	18760.9	18533.8
40°	513.1	513.1	525.7	572.0	677.1	1362.6	3171.0	8322.7	17238.4	19871.1	19206.7
42.5°	479.4	479.4	500.5	529.9	643.5	1257.4	3007.0	8276.5	17877.7	20552.4	19602.0
45°	433.2	445.8	479.4	508.9	651.8	1185.9	2885.0	8099.8	18096.4	20544.0	19412.8
47.5°	399.5	416.3	450.0	492.0	588.7	1164.9	2800.9	7944.2	18020.7	20039.4	18819.8
50°	361.7	382.7	428.9	500.5	500.5	1122.9	2712.5	8083.1	17966.0	19648.3	18252.0
52°	336.5	353.3	412.2	487.8	437.4	1034.6	2657.9	8352.2	18188.9	19597.8	17999.7
52.5°	332.2	344.8	399.5	479.4	416.3	1017.7	2620.1	8415.3	18260.4	19471.6	18172.1
55°	294.4	311.2	365.9	374.3	340.7	836.9	2498.1	8558.3	17907.1	19223.5	18008.1
57.5°	277.6	286.0	323.8	307.0	294.4	630.9	2149.0	8335.3	15905.3	17074.5	16754.9
60°	256.5	265.0	302.8	239.7	248.1	441.6	1614.9	7237.7	12772.2	14227.3	14803.5
62.5°	248.1	243.9	286.0	193.5	210.3	319.6	1139.7	5883.5	9841.0	11712.4	12709.1
65°	218.7	214.5	206.1	164.0	180.9	248.1	681.3	3839.7	6935.0	8861.1	9407.7
67.5°	168.2	176.6	151.4	130.4	151.4	193.5	378.5	1720.1	3637.8	5315.8	5757.4
70°	117.8	126.1	122.0	113.5	134.6	159.8	218.7	588.7	1505.6	2792.5	3078.4
72.5°	71.5	88.3	92.6	96.7	117.8	138.7	155.6	189.3	399.5	988.3	1228.0
75°	42.0	58.9	71.5	84.1	96.7	117.8	130.4	134.6	138.7	185.0	298.6
77.5°	29.4	42.0	63.1	79.9	96.7	117.8	138.7	147.2	138.7	130.4	138.7
80°	25.2	42.0	58.9	75.7	100.9	122.0	138.7	138.7	134.6	117.8	126.1
82.5°	25.2	42.0	63.1	79.9	96.7	117.8	134.6	138.7	126.1	117.8	122.0
85°	29.4	46.3	67.3	84.1	105.2	96.7	88.3	71.5	67.3	54.7	58.9
87.5°	29.4	42.0	42.0	46.3	50.5	50.5	50.5	46.3	37.8	33.7	33.7
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°	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3	10749.3
2.5°	11746.0	12082.5	12069.9	12078.3	12027.8	11687.2	11523.2	11106.8	11224.5	11174.1
5°	12196.1	12528.3	12814.3	12780.6	12393.7	11931.1	11245.6	10598.0	10421.3	10160.6
7.5°	11746.0	12545.1	12810.0	12772.2	12200.2	11607.3	10513.8	9866.2	9559.2	9386.8
10°	11031.1	11956.3	12284.3	12351.7	11964.7	11064.7	10059.7	9020.9	8856.8	8558.3
12.5°	10623.2	11296.0	11498.0	11678.8	11544.2	10871.3	9714.8	8718.1	8491.0	8293.3
15°	10291.0	10690.5	10774.5	10980.6	11060.6	10698.9	9895.6	9046.1	8486.8	8465.7
17.5°	10598.0	10433.9	10126.9	10190.0	10442.3	10703.1	10362.5	9693.8	9151.2	9084.0
20°	11106.8	10383.4	9689.5	9845.1	10055.4	10854.5	11069.0	10598.0	10286.7	10114.3
22.5°	11691.4	10471.8	9550.8	9626.4	10026.0	11195.1	12212.8	11952.1	11371.7	11123.6
25°	12772.2	10715.7	9660.1	9710.6	10257.3	11670.4	13247.4	13440.9	13096.1	13045.6
27.5°	13827.8	11346.5	9899.9	9786.2	10375.1	12133.0	13874.1	14912.9	14307.2	14189.4
30°	14366.1	11859.6	10257.3	10063.8	10862.9	12414.7	14252.6	15871.7	15341.8	15287.1
32.5°	15190.4	12326.5	10534.9	10286.7	11136.2	12763.8	14959.1	16918.8	16405.8	16132.5
35°	15535.3	12835.3	11144.7	10854.5	11918.5	13251.6	15320.7	17852.5	17692.7	17427.7
37.5°	16199.7	13382.0	11863.8	11847.0	12864.7	13886.7	15972.7	19122.6	19093.1	18634.7
40°	16254.4	13979.2	12999.3	13529.2	14328.3	14992.7	16544.6	19475.8	19955.2	19644.1
42.5°	16338.5	15026.4	14963.3	15400.7	16086.2	15943.2	16565.6	19560.0	20291.7	20106.7
45°	16376.4	16073.6	16961.0	17768.4	18054.3	17188.0	16367.9	19400.2	20468.3	20005.7
47.5°	16073.6	16973.6	18575.8	20136.1	20220.2	17953.4	16283.8	19236.1	20573.5	20266.5
50°	16115.6	17537.1	19972.1	21368.3	21061.3	18630.5	16153.4	19135.2	20518.8	20312.7
52°	16014.7	17549.7	20169.8	21343.1	21128.6	18256.2	15930.5	18748.3	20468.3	20615.5
52.5°	16128.2	17474.0	19963.7	21359.9	21082.4	18441.3	15901.1	18962.8	20497.8	20199.2
55°	15737.1	16574.0	18756.7	19349.7	19307.6	16738.0	14997.0	18252.0	19728.2	19732.4
57.5°	14223.1	14366.1	14710.9	14698.3	14504.9	13159.1	12826.9	16784.3	17587.5	17150.2
60°	12532.5	10518.0	9588.6	9210.1	8995.7	8777.0	11346.5	15354.4	15430.1	15245.1
62.5°	10829.3	7292.4	6056.0	5950.8	6001.3	6800.4	10968.0	14786.6	14332.4	13932.9
65°	8739.1	5315.8	4399.0	4260.2	4752.3	5614.4	8877.9	11338.2	10640.0	10307.7
67.5°	5488.2	3877.5	2973.3	2712.5	3305.5	3864.9	5833.0	7124.2	6341.9	5883.5
70°	3255.1	2165.9	1345.7	1207.0	1358.3	2060.7	3267.7	3553.6	2939.7	2704.2
72.5°	1282.7	794.8	374.3	319.6	332.2	723.3	1202.8	1173.3	887.4	790.7
75°	344.8	239.7	130.4	105.2	88.3	134.6	193.5	126.1	46.3	58.9
77.5°	159.8	143.0	113.5	88.3	67.3	50.5	25.2	8.4	8.4	4.2
80°	138.7	122.0	105.2	88.3	67.3	42.0	21.1	4.2	4.2	4.2
82.5°	130.4	113.5	96.7	79.9	63.1	42.0	21.1	4.2	0.0	0.0
85°	54.7	71.5	79.9	75.7	67.3	42.0	21.1	4.2	0.0	0.0
87.5°	29.4	25.2	21.1	16.8	12.6	8.4	8.4	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

(END OF REPORT)