

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: P459337

Luminaire Tested: **GALN-SA8A-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459337
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-SA8A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 24705 lumens
Efficiency: N/A
Efficacy: 101.2 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

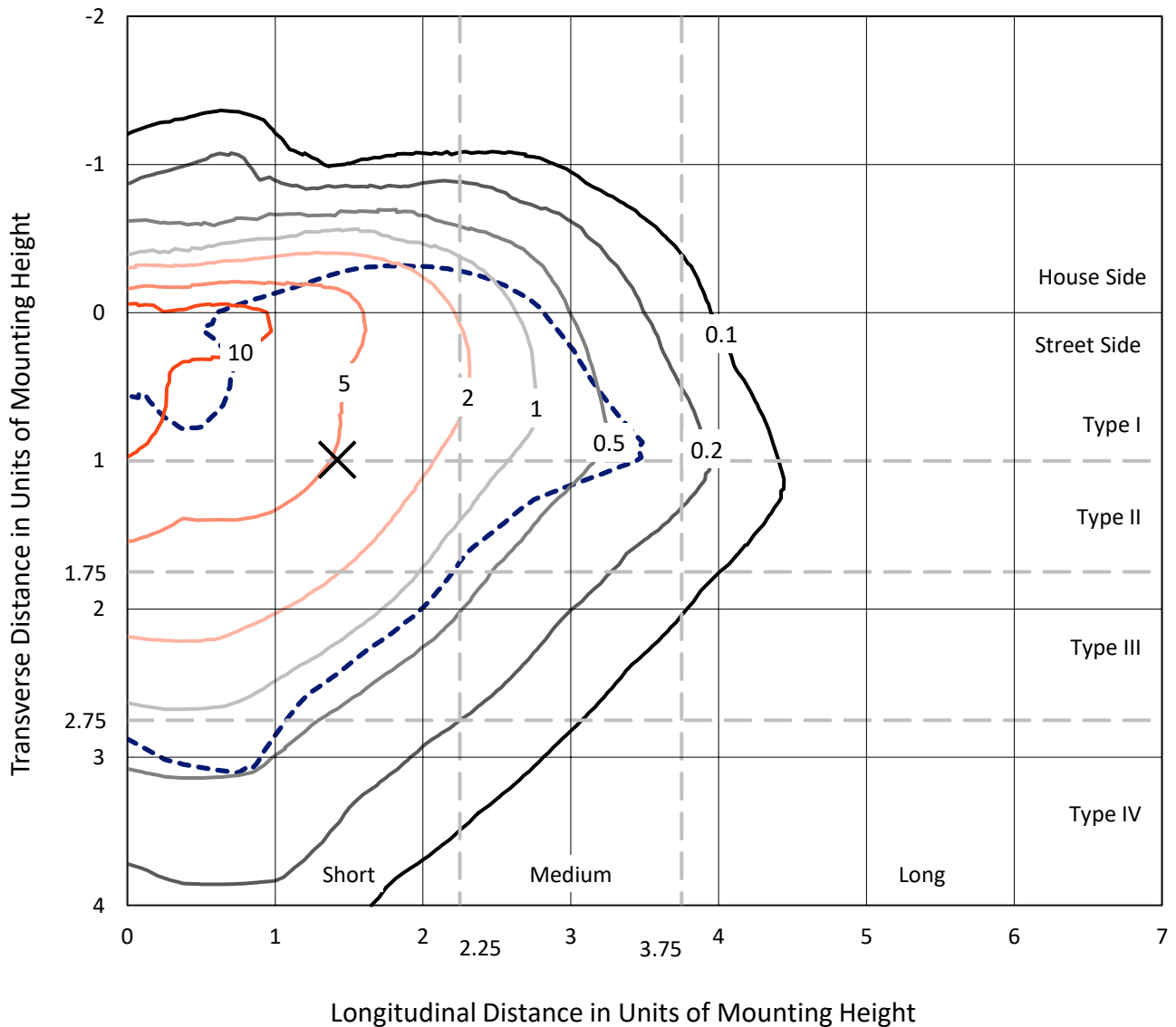
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

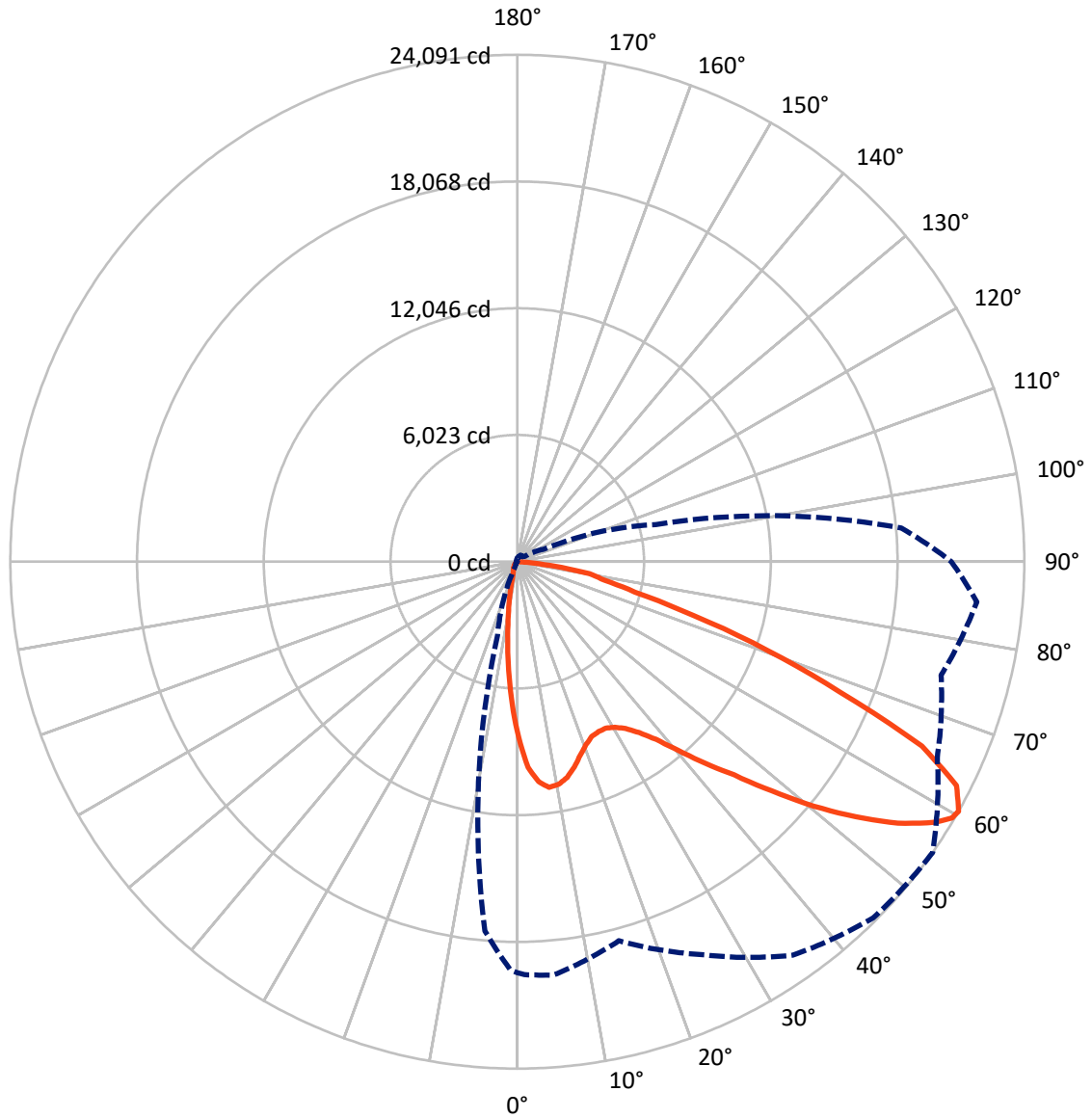
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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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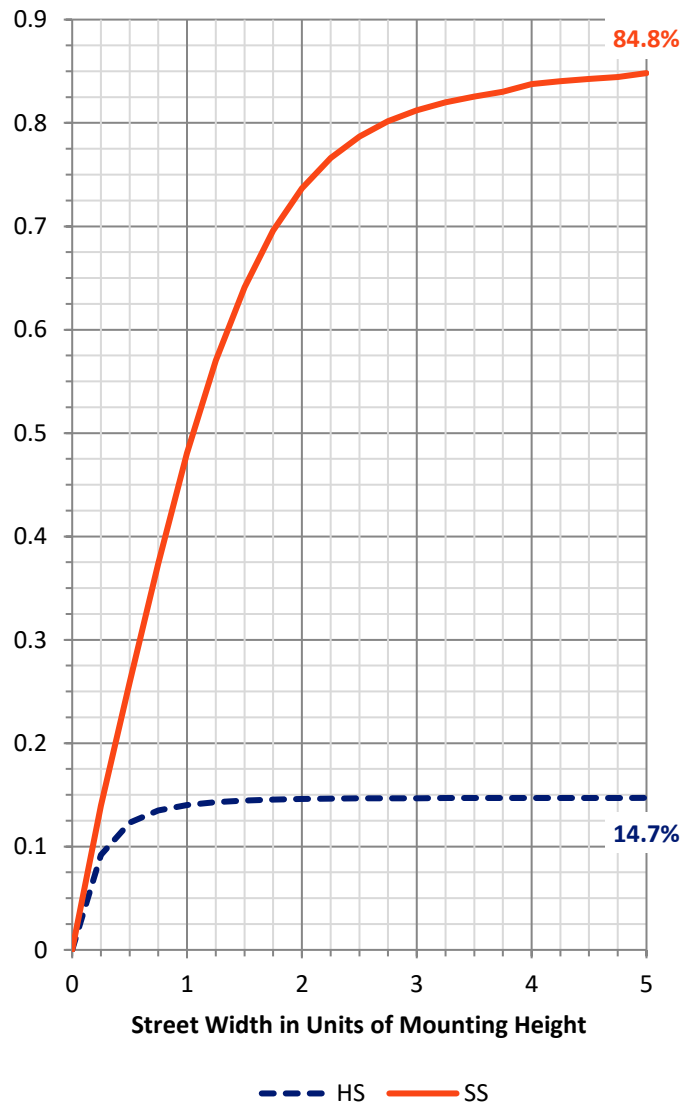
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3666.4	0.0	3666.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	21038.6	0.0	21038.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	24705.0	0.0	24705.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.4	2.5
10°-20°	1219.8	4.9
20°-30°	1805.6	7.3
30°-40°	2691.4	10.9
40°-50°	3941.6	16.0
50°-60°	5690.4	23.0
60°-70°	5986.0	24.2
70°-80°	2462.4	10.0
80°-90°	288.4	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°	24705.0	100.0
0°-180°	24705.0	100.0



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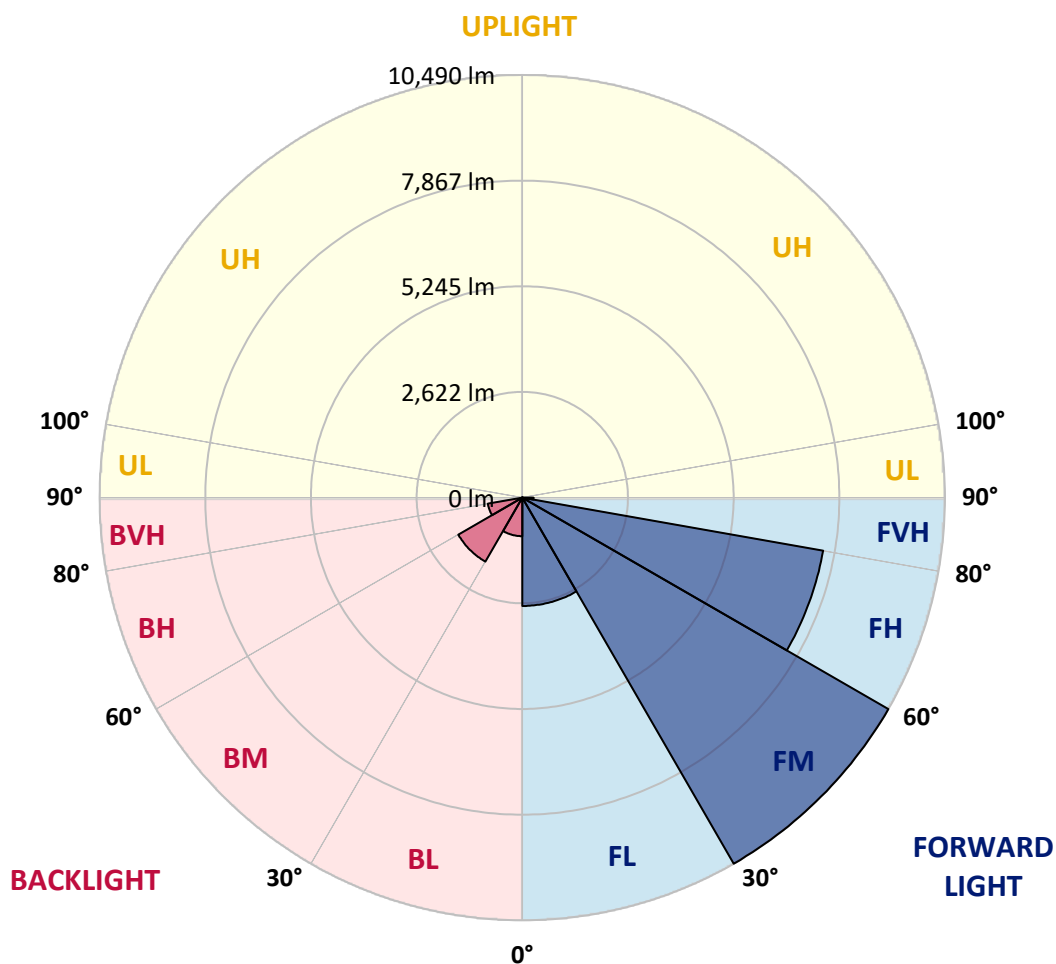
CATALOG NUMBER: GALN-SA8A-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2688.3	10.9			
FM	(30°-60°)	10489.8	42.5			
FH	(60°-80°)	7580.6	30.7			G4/12000
FVH	(80°-90°)	279.9	1.1			G3/500
BL	(0°-30°)	956.6	3.9	B2/1000		
BM	(30°-60°)	1833.5	7.4	B2/2500		
BH	(60°-80°)	867.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.5	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°	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0
2.5°	9139.0	9123.8	9258.8	9479.4	9701.9	9817.9	9795.0	9785.5	9601.1	9466.1	9182.7
5°	9120.0	9197.9	9439.4	10036.5	10489.1	10707.8	10772.4	10500.5	10141.1	9620.1	8977.4
7.5°	8574.2	8671.2	9064.8	9998.5	10802.9	11278.3	11261.1	10825.7	10084.1	9277.8	8361.2
10°	7897.3	8011.4	8473.4	9606.8	10650.7	11278.3	11312.5	10761.0	9838.8	8804.3	7840.2
12.5°	7420.0	7555.0	8066.5	9241.7	10259.0	10877.0	10917.0	10517.6	9654.3	8621.8	7556.9
15°	7258.3	7385.7	7904.9	9057.2	9842.6	10175.3	10165.8	10124.0	9582.1	8665.5	7572.1
17.5°	7536.0	7640.5	8226.2	9140.9	9452.7	9418.5	9468.0	9669.5	9597.3	9032.5	8051.3
20°	8252.9	8359.3	8988.8	9397.6	9154.2	8937.4	8960.2	9296.8	9738.0	9722.8	8800.5
22.5°	9239.8	9420.4	9990.9	9895.8	9114.3	8638.9	8591.3	9028.7	9977.6	10517.6	9812.1
25°	10489.1	10671.7	11116.6	10690.7	9310.1	8568.5	8524.8	8946.9	10268.5	11293.5	10951.2
27.5°	11538.8	11677.6	12120.7	11464.6	9599.2	8598.9	8526.7	8958.3	10504.3	11953.3	11911.5
30°	12379.3	12482.0	12742.5	11825.9	9848.3	8732.0	8648.4	9125.7	10608.9	12274.7	12689.2
32.5°	13056.2	13229.3	13311.1	12211.9	10205.8	8983.1	8840.4	9447.0	10863.7	12672.1	13505.0
35°	13830.2	14029.8	13925.3	12580.8	10677.4	9374.8	9199.8	9968.1	11249.7	13039.1	14452.0
37.5°	14811.4	15041.5	14632.6	12968.8	11175.6	9964.3	9882.5	10700.2	11835.4	13564.0	15467.4
40°	15826.8	15959.9	15319.1	13440.4	11787.9	10821.9	10899.8	11787.9	12601.8	14193.4	16547.5
42.5°	16619.8	16745.3	16024.6	13835.9	12413.5	11839.2	12164.4	13100.0	13480.3	14838.0	17353.8
45°	17226.4	17332.9	16513.3	14267.5	13257.8	13313.0	13927.2	14452.0	14360.7	15231.6	17975.6
47.5°	17698.0	17789.3	16889.8	14731.5	14522.4	15115.6	16055.0	16277.5	15273.5	15657.6	18538.5
50°	17892.0	17918.6	17007.7	15322.9	15958.0	17412.8	18392.1	18257.1	16319.3	16131.1	19137.5
52.5°	18144.9	18139.2	17344.3	15885.8	17308.2	19466.5	20443.9	20137.7	17502.1	16840.4	19810.6
55°	18808.5	18816.1	18065.0	16684.5	18458.6	21124.6	22170.5	21948.0	18749.6	18038.4	20596.0
57.5°	19614.8	19643.3	19089.9	17618.1	19557.7	22326.4	23459.8	23374.2	20436.3	19371.4	21337.6
59°	19719.4	19776.4	19574.9	18276.1	20210.0	22695.3	23900.9	23984.6	21339.5	20249.9	21738.8
60°	19529.2	19624.3	19715.6	18648.8	20592.2	22828.5	23927.6	24091.1	22018.4	20847.0	21921.4
62.5°	18700.1	18850.3	19308.6	19795.4	21069.5	22413.9	23077.6	23419.8	22858.9	22415.8	21938.5
65°	17614.3	17692.3	18354.0	19998.9	20143.4	20478.1	20683.5	21122.7	21849.1	23020.5	21153.2
67.5°	15834.4	16064.5	16874.6	18818.0	17410.9	17015.3	16964.0	16526.6	18413.0	21579.1	19217.4
70°	13081.0	13183.6	14182.0	15427.5	13139.9	12531.4	12774.8	12611.3	14273.2	18576.5	15467.4
72.5°	9892.0	10124.0	11099.5	12297.5	8941.2	8152.1	8823.3	8762.5	10721.1	14929.3	10626.0
75°	7037.7	7188.0	8431.6	9623.9	6261.9	5305.4	5546.9	5773.2	7484.6	11787.9	6279.0
77.5°	4835.7	4965.0	5898.7	6364.6	4567.6	4375.5	4002.8	4221.5	4904.2	6994.0	3417.1
80°	2917.0	2911.3	3525.5	3639.6	3181.3	3694.8	3099.6	3479.9	2964.6	2993.1	1323.5
82.5°	1894.0	1875.0	2156.4	2350.4	1770.4	1861.6	1249.3	1800.8	1932.0	834.8	418.3
85°	848.1	884.2	1036.4	1367.2	775.8	412.6	254.8	553.4	823.4	420.2	0.0
87.5°	87.5	68.5	182.6	332.8	106.5	11.4	38.0	19.0	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°	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0
2.5°	9051.5	8941.2	8612.2	8304.2	8039.9	7716.6	7507.4	7178.5	6978.8	6917.9	6927.5
5°	8688.3	8370.7	7745.1	7245.0	6687.9	6370.3	5887.3	5423.3	5172.3	5079.1	5037.3
7.5°	7927.7	7587.3	6832.4	6047.0	5449.9	4892.8	4533.4	4124.5	3845.0	3614.9	3575.0
10°	7362.9	6916.0	5980.5	5136.2	4664.6	4246.2	3886.8	3478.0	3149.0	2886.6	2814.3
12.5°	7024.4	6524.3	5480.3	4773.0	4326.1	3896.3	3428.5	2955.1	2618.5	2335.1	2203.9
15°	6963.6	6383.6	5339.6	4512.4	3961.0	3441.9	2820.0	2308.5	1962.4	1694.3	1612.5
17.5°	7330.6	6636.5	5318.7	4240.5	3483.7	2747.8	2101.2	1677.2	1287.4	1137.1	1078.2
20°	7984.7	7083.4	5316.8	3924.9	2993.1	2116.5	1475.6	1093.4	935.6	863.3	829.1
22.5°	8876.6	7691.9	5417.6	3652.9	2483.5	1561.2	1053.5	870.9	779.6	720.7	707.4
25°	9966.2	8593.2	5664.8	3468.5	2093.6	1224.6	869.0	745.4	669.4	642.7	631.3
27.5°	10934.1	9456.6	5936.7	3278.3	1814.1	1083.9	806.3	682.7	621.8	600.9	583.8
30°	11768.9	10240.0	6067.9	3027.3	1589.7	992.6	817.7	730.2	650.3	587.6	559.1
32.5°	12464.8	10840.9	6153.5	2799.1	1399.6	812.0	646.5	564.8	528.6	505.8	486.8
35°	13335.8	11491.2	6102.2	2669.8	1302.6	739.7	589.5	486.8	426.0	380.3	361.3
37.5°	14248.5	12141.6	6012.8	2563.3	1258.8	686.5	561.0	462.1	395.5	348.0	323.3
40°	15193.6	12744.4	5908.2	2464.4	1218.9	652.2	543.9	441.2	374.6	323.3	296.6
42.5°	16058.8	13332.0	5866.4	2399.8	1154.3	657.9	530.5	431.7	353.7	300.4	277.6
45°	16758.6	13889.1	5923.4	2365.6	1083.9	648.4	534.3	420.2	336.6	285.2	262.4
47.5°	17505.9	14676.4	6107.9	2331.3	1015.4	602.8	562.9	418.3	329.0	275.7	251.0
50°	18375.0	15684.2	6530.0	2247.7	931.8	553.4	599.0	416.4	319.5	264.3	239.6
52.5°	19533.0	16829.0	6965.5	2101.2	810.1	505.8	572.4	410.7	300.4	251.0	226.3
55°	20573.2	18034.6	7334.4	1928.2	656.0	437.4	515.3	386.0	268.1	228.2	205.4
57.5°	21002.9	18715.3	7323.0	1688.6	524.8	384.1	424.1	353.7	233.9	201.6	182.6
59°	20845.1	18629.8	7077.7	1511.8	479.2	355.6	351.8	349.9	218.7	182.6	167.3
60°	20622.6	18317.9	6813.4	1424.3	450.7	336.6	323.3	346.1	205.4	171.1	155.9
62.5°	19770.7	17024.8	5936.7	1276.0	412.6	285.2	258.6	292.8	182.6	148.3	135.0
65°	18536.6	15037.7	5025.9	1234.1	401.2	235.8	214.9	209.2	155.9	125.5	114.1
67.5°	16129.2	12725.4	4071.3	1205.6	405.0	197.8	188.3	157.8	129.3	104.6	97.0
70°	12913.6	9922.4	3333.5	1173.3	408.8	161.6	157.8	125.5	104.6	87.5	79.9
72.5°	7845.9	5881.6	2624.2	1019.2	397.4	129.3	140.7	95.1	76.1	62.8	58.9
75°	4850.9	4025.6	1627.8	793.0	262.4	95.1	98.9	58.9	51.3	39.9	39.9
77.5°	2810.5	2542.4	581.9	285.2	116.0	57.0	43.7	30.4	28.5	17.1	17.1
80°	1165.7	933.7	201.6	97.0	62.8	26.6	9.5	1.9	0.0	0.0	0.0
82.5°	340.4	302.4	55.1	43.7	19.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0
2.5°	6765.8	6703.1	6674.5	6771.5	6682.1	6796.2	6708.8	6746.8	6859.0	6908.4	7035.8
5°	5063.9	4999.3	4968.8	5115.2	5107.6	5179.9	5172.3	5238.8	5295.9	5168.5	5299.7
7.5°	3527.4	3483.7	3556.0	3670.0	3791.7	3751.8	3751.8	3662.4	3692.9	3673.9	3668.1
10°	2683.1	2532.9	2494.9	2491.1	2536.7	2546.2	2494.9	2371.3	2416.9	2430.2	2510.1
12.5°	2110.8	1994.8	1817.9	1738.0	1717.1	1734.2	1565.0	1456.6	1508.0	1477.5	1555.5
15°	1513.7	1418.6	1314.0	1224.6	1199.9	1165.7	981.2	851.9	836.7	842.4	855.7
17.5°	1080.1	1015.4	1015.4	920.4	869.0	766.3	673.2	616.1	610.4	616.1	625.6
20°	796.8	762.5	758.7	734.0	677.0	608.5	543.9	532.4	528.6	538.1	541.9
22.5°	686.5	650.3	619.9	618.0	564.8	507.7	477.3	462.1	464.0	467.8	477.3
25°	614.2	576.2	543.9	524.8	486.8	446.9	418.3	410.7	410.7	416.4	418.3
27.5°	562.9	515.3	486.8	460.2	426.0	391.7	367.0	361.3	357.5	361.3	370.8
30°	526.7	479.2	443.1	403.1	376.5	344.2	323.3	315.7	313.8	315.7	323.3
32.5°	450.7	422.2	393.6	357.5	325.2	304.3	281.4	268.1	268.1	271.9	279.5
35°	340.4	325.2	323.3	313.8	287.1	264.3	237.7	224.4	224.4	232.0	235.8
37.5°	300.4	271.9	268.1	264.3	252.9	222.5	197.8	186.4	184.5	190.2	197.8
40°	273.8	241.5	224.4	220.6	222.5	188.3	161.6	150.2	150.2	152.1	159.7
42.5°	252.9	214.9	184.5	180.6	188.3	157.8	131.2	119.8	119.8	119.8	129.3
45°	235.8	192.1	155.9	136.9	148.3	129.3	106.5	95.1	91.3	95.1	98.9
47.5°	224.4	174.9	136.9	110.3	110.3	102.7	85.6	72.3	68.5	70.4	76.1
50°	214.9	159.7	116.0	89.4	79.9	81.8	64.7	55.1	51.3	51.3	57.0
52.5°	199.7	144.5	100.8	76.1	60.9	55.1	47.5	39.9	38.0	39.9	43.7
55°	180.6	131.2	87.5	62.8	47.5	38.0	34.2	28.5	26.6	28.5	34.2
57.5°	159.7	110.3	70.4	49.4	32.3	24.7	22.8	19.0	15.2	17.1	20.9
59°	146.4	98.9	60.9	39.9	24.7	17.1	17.1	13.3	9.5	11.4	17.1
60°	140.7	91.3	51.3	34.2	20.9	13.3	13.3	9.5	5.7	7.6	13.3
62.5°	119.8	76.1	39.9	20.9	9.5	1.9	5.7	1.9	0.0	1.9	5.7
65°	100.8	60.9	26.6	9.5	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	83.7	45.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	66.6	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	45.6	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.4	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°	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0	8365.0
2.5°	7043.4	7315.4	7482.7	7798.4	8121.6	8370.7	8682.6	8962.1	9078.1	9139.0
5°	5432.8	5811.2	6132.6	6613.7	7060.6	7604.4	8155.9	8806.2	9055.3	9120.0
7.5°	3812.7	4198.7	4535.3	5092.4	5729.5	6457.8	7283.0	8108.3	8471.5	8574.2
10°	2753.5	3166.1	3576.9	4134.0	4729.2	5518.4	6377.9	7399.0	7817.4	7897.3
12.5°	1738.0	2181.1	2848.6	3536.9	4166.4	4801.5	5700.9	6811.5	7273.5	7420.0
15°	1007.8	1338.7	1842.6	2740.2	3540.7	4381.2	5362.5	6590.9	7108.1	7258.3
17.5°	675.1	789.2	1135.2	1821.7	2879.0	3993.3	5276.9	6771.5	7343.9	7536.0
20°	568.6	619.9	741.6	1110.5	2217.2	3647.2	5299.7	7262.1	8013.3	8252.9
22.5°	500.1	547.7	625.6	798.7	1547.9	3217.5	5408.1	7963.8	8933.6	9239.8
25°	441.2	488.7	557.2	661.7	1040.2	2721.2	5645.8	8990.7	10152.5	10489.1
27.5°	391.7	435.5	494.4	583.8	800.6	2167.8	5856.9	9990.9	11265.0	11538.8
30°	346.1	382.2	439.3	507.7	665.6	1671.5	5963.4	10865.6	12075.0	12379.3
32.5°	300.4	334.7	389.8	445.0	547.7	1274.1	5889.2	11508.4	12862.3	13056.2
35°	256.7	292.8	338.5	389.8	473.5	1028.8	5518.4	12231.0	13678.1	13830.2
37.5°	220.6	251.0	298.5	338.5	427.9	823.4	5069.6	12881.3	14592.7	14811.4
40°	186.4	216.8	264.3	300.4	393.6	648.4	4664.6	13603.9	15556.8	15826.8
42.5°	152.1	188.3	230.1	289.0	338.5	494.4	4174.0	14189.6	16281.3	16619.8
45°	121.7	161.6	207.3	287.1	294.7	376.5	3700.5	14646.0	16922.1	17226.4
47.5°	97.0	136.9	199.7	268.1	241.5	298.5	3430.4	15123.3	17454.6	17698.0
50°	78.0	114.1	209.2	235.8	201.6	252.9	3422.8	15655.7	17730.3	17892.0
52.5°	62.8	93.2	176.8	180.6	171.1	222.5	3628.2	16254.7	18011.8	18144.9
55°	53.2	78.0	116.0	133.1	154.0	201.6	3782.2	17177.0	18683.0	18808.5
57.5°	41.8	66.6	89.4	106.5	136.9	184.5	3803.2	17888.2	19533.0	19614.8
59°	36.1	57.0	79.9	95.1	125.5	173.0	3717.6	17931.9	19588.2	19719.4
60°	30.4	51.3	70.4	89.4	116.0	163.5	3624.4	17614.3	19382.8	19529.2
62.5°	22.8	39.9	51.3	72.3	95.1	140.7	3183.2	16505.7	18597.4	18700.1
65°	15.2	28.5	38.0	53.2	74.2	121.7	2593.8	15068.1	17384.2	17614.3
67.5°	9.5	20.9	30.4	39.9	60.9	102.7	1848.3	12921.2	15686.1	15834.4
70°	5.7	13.3	22.8	32.3	47.5	81.8	1097.2	10213.4	13050.5	13081.0
72.5°	3.8	9.5	15.2	22.8	38.0	74.2	532.4	6657.4	9528.8	9892.0
75°	1.9	5.7	9.5	17.1	30.4	60.9	254.8	4447.8	6933.2	7037.7
77.5°	0.0	1.9	5.7	11.4	22.8	47.5	148.3	2920.8	4727.3	4835.7
80°	0.0	0.0	3.8	9.5	17.1	30.4	89.4	1722.8	2863.8	2917.0
82.5°	0.0	0.0	1.9	7.6	11.4	22.8	45.6	756.8	1875.0	1894.0
85°	0.0	0.0	1.9	7.6	9.5	15.2	17.1	102.7	832.9	848.1
87.5°	0.0	0.0	1.9	9.5	9.5	9.5	9.5	5.7	70.4	87.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)