

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: P652070

Luminaire Tested: **GALN-SA8A-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22303.3 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 IV - Short
BUG Rating: B2 - U0 - G3

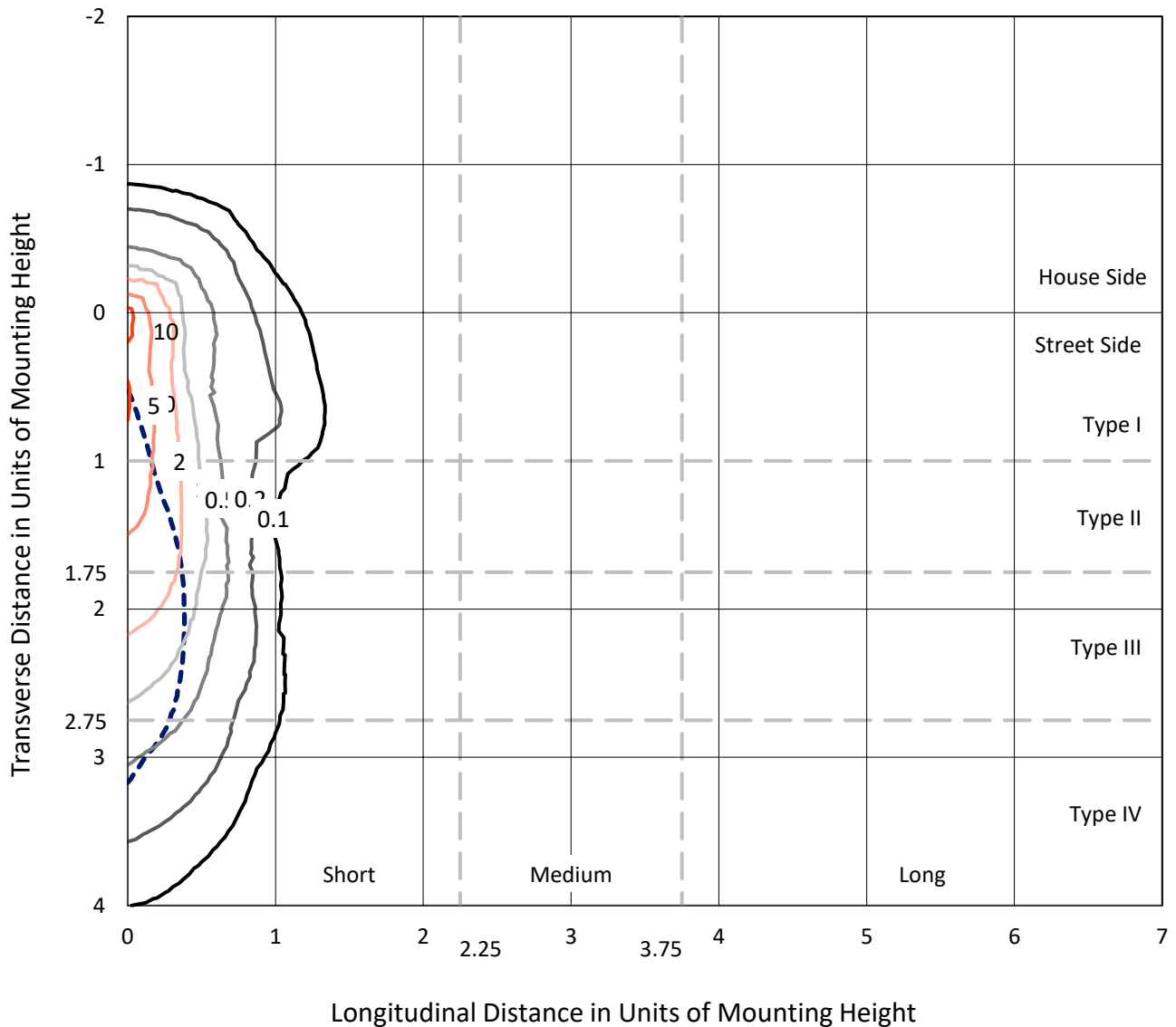
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

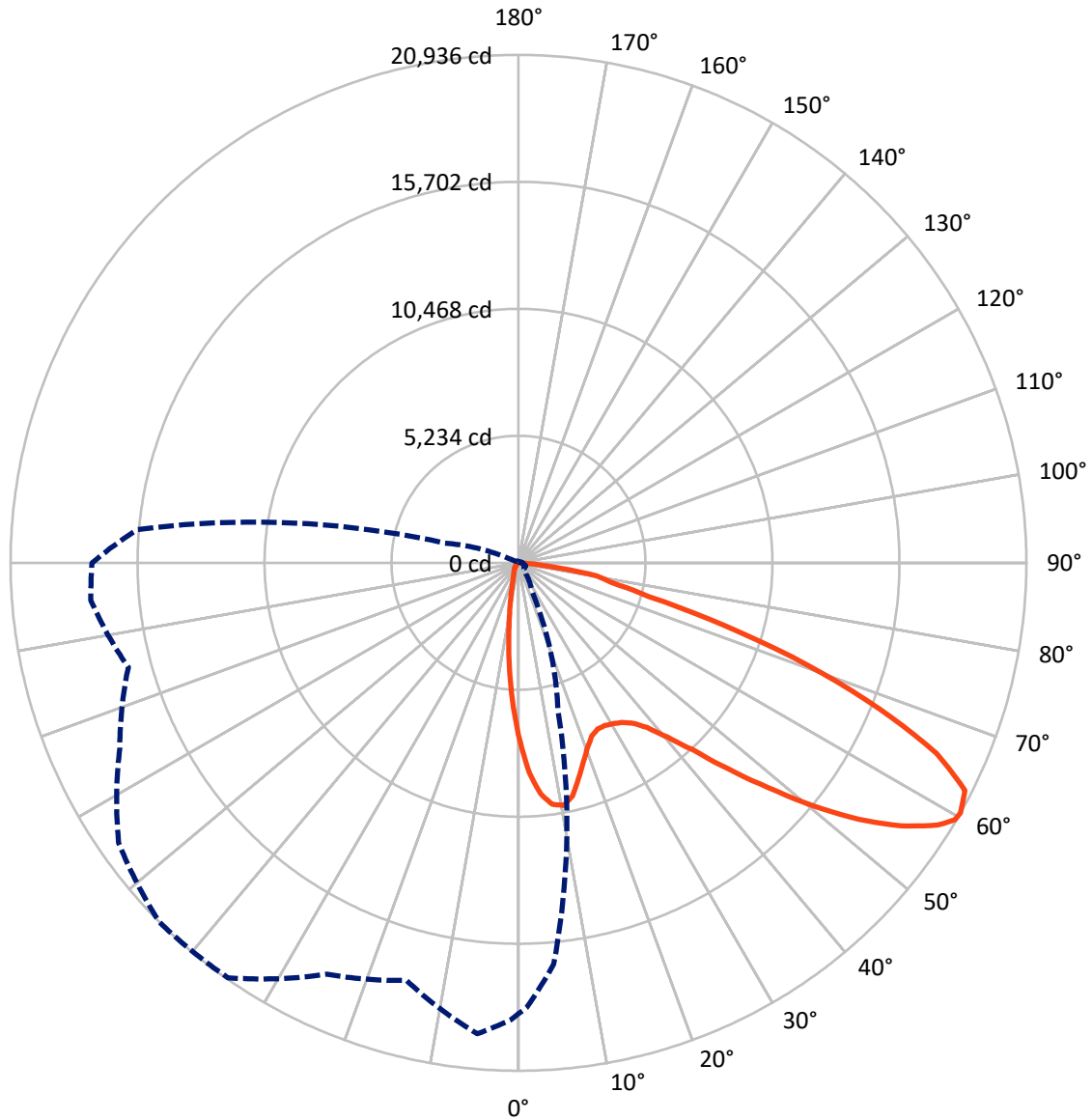
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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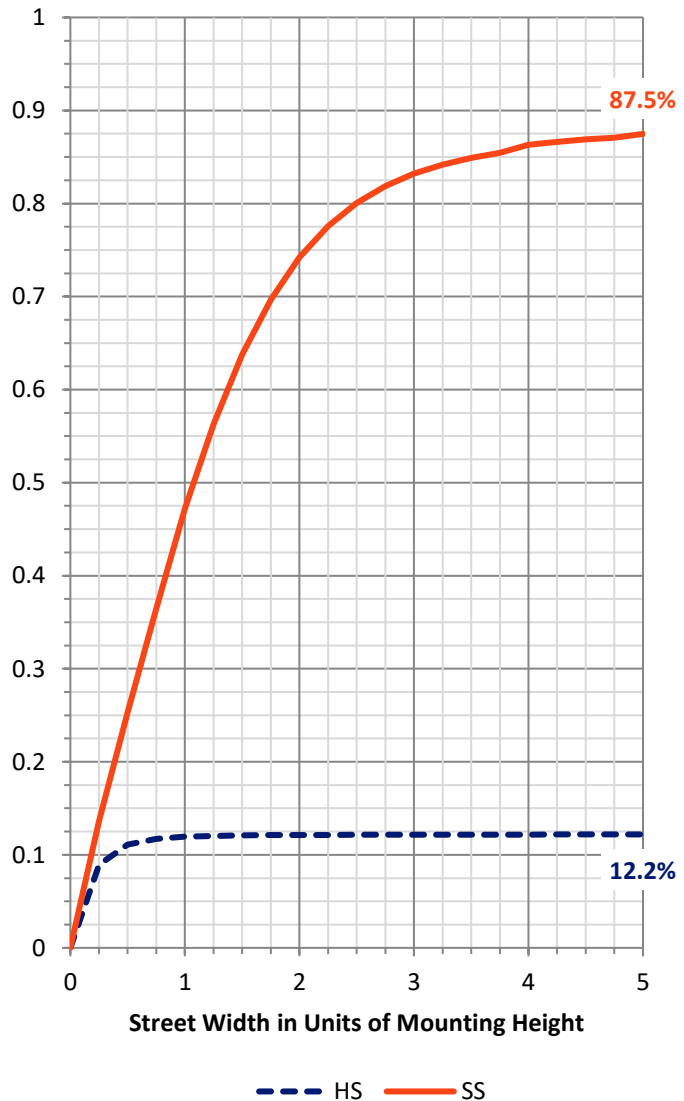
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2750.9	0.0	2750.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19552.4	0.0	19552.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	22303.3	0.0	22303.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.3	2.5
10°-20°	1088.9	4.9
20°-30°	1596.6	7.2
30°-40°	2374.4	10.6
40°-50°	3455.5	15.5
50°-60°	4983.1	22.3
60°-70°	5480.9	24.6
70°-80°	2455.0	11.0
80°-90°	320.8	1.4
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°	22303.3	100.0
0°-180°	22303.3	100.0

Coefficient of Utilization



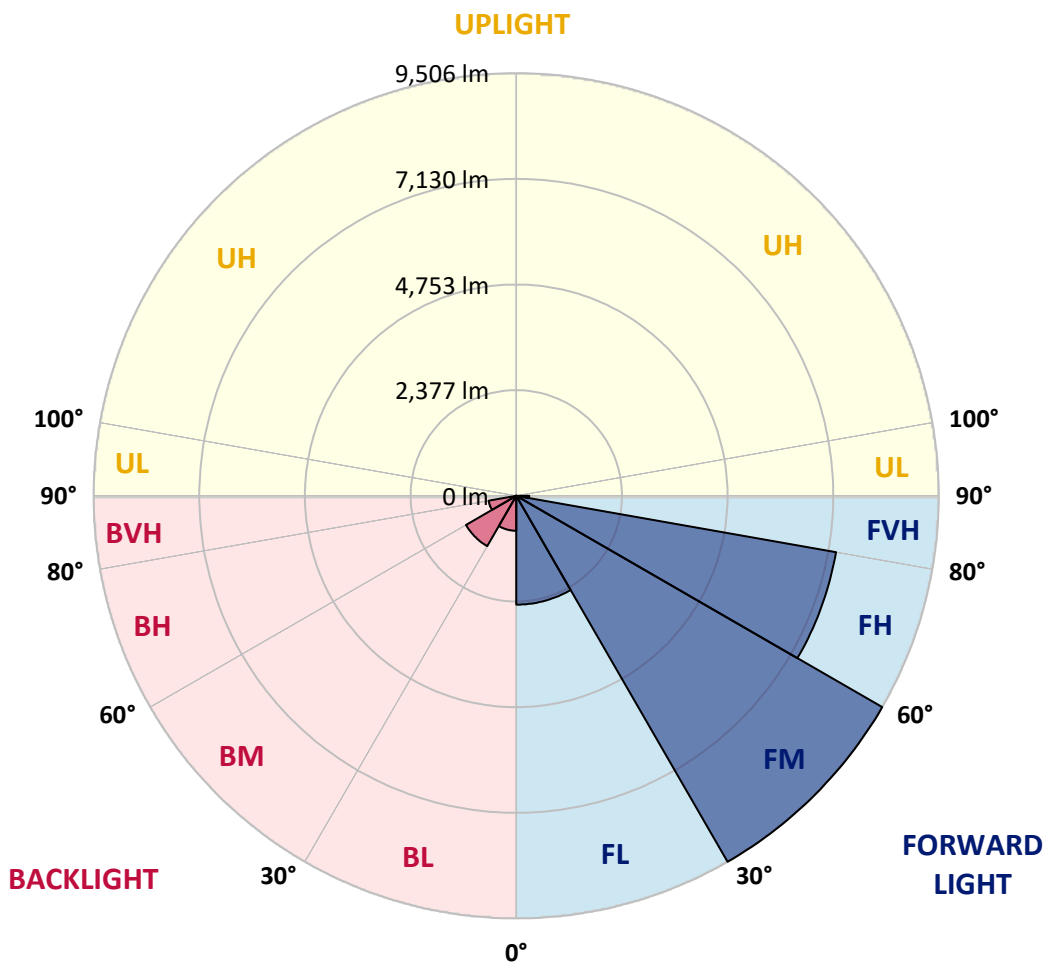
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2447.7	11.0			
FM (30°-60°)	9506.4	42.6			
FH (60°-80°)	7305.0	32.8			G3/7500
FVH (80°-90°)	293.4	1.3			G3/500
BL (0°-30°)	786.0	3.5	B2/1000		
BM (30°-60°)	1306.6	5.9	B2/2500		
BH (60°-80°)	630.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	27.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5
2.5°	8104.0	8068.4	7987.0	7739.5	7524.2	7242.7	6957.9	6734.1	6596.8	6344.2	6228.9
5°	7851.3	7868.3	7632.7	7124.0	6557.8	6171.3	5749.1	5413.3	5043.8	4809.8	4564.0
7.5°	7191.9	7157.9	6901.9	6193.3	5504.9	4945.5	4411.4	3977.4	3704.4	3485.7	3302.6
10°	6627.2	6601.8	6274.6	5362.6	4623.3	4204.6	3843.5	3463.7	3170.4	2850.0	2594.0
12.5°	6272.9	6215.3	5838.9	4886.1	4284.2	3894.3	3501.0	3106.0	2700.8	2376.9	2066.7
15°	6154.3	6071.2	5652.4	4721.6	4067.2	3572.2	3078.8	2624.5	2158.3	1800.5	1566.5
17.5°	6369.6	6232.2	5786.3	4692.9	3807.9	3151.7	2544.8	1953.1	1468.2	1195.2	1051.2
20°	6863.0	6705.3	6125.4	4664.0	3519.7	2680.4	1934.5	1380.1	1015.5	866.3	786.7
22.5°	7595.3	7378.3	6627.2	4709.8	3253.5	2221.0	1397.0	974.9	807.0	713.8	657.8
25°	8475.3	8293.9	7263.0	4872.6	3043.2	1859.9	1079.9	796.8	679.9	622.2	579.8
27.5°	9440.0	9150.0	8085.3	5067.5	2851.7	1580.1	947.7	712.1	605.3	552.7	530.7
30°	10126.6	9901.1	8773.6	5203.2	2612.6	1369.9	866.3	701.9	606.9	544.2	503.5
32.5°	10804.7	10516.5	9350.1	5265.9	2438.0	1224.1	749.3	612.0	532.4	500.1	459.4
35°	11530.4	11228.6	9924.8	5231.9	2307.5	1127.4	679.9	545.9	456.1	401.8	361.1
37.5°	12264.5	11945.7	10496.2	5109.9	2226.0	1088.4	625.6	518.8	430.6	374.7	330.6
40°	13135.9	12710.4	11031.9	5009.9	2141.3	1068.1	590.0	501.8	412.0	352.6	308.6
42.5°	13848.0	13442.8	11538.9	4957.4	2083.7	1020.6	590.0	488.3	400.1	334.0	288.2
45°	14522.7	14102.3	12086.4	4999.7	2059.9	961.3	596.8	486.6	391.7	320.4	274.7
47.5°	15087.3	14722.8	12649.3	5159.1	2029.4	896.8	561.2	510.3	386.5	308.6	261.1
50°	15753.6	15401.0	13393.6	5481.2	1975.2	832.4	517.1	549.3	384.8	298.4	249.2
52.5°	16692.8	16311.4	14421.0	5847.4	1888.6	734.1	476.4	544.2	378.1	281.4	237.3
55°	17840.6	17532.1	15611.1	6286.5	1770.0	623.9	412.0	483.2	357.8	252.6	217.0
57.5°	18576.4	18313.6	16502.9	6476.4	1588.6	510.3	362.8	405.2	327.2	225.5	193.3
59°	18662.9	18425.6	16689.5	6413.6	1469.9	466.3	339.1	347.6	318.7	210.2	179.7
60°	18590.0	18344.1	16614.9	6291.6	1359.7	435.7	318.7	308.6	320.4	201.8	169.5
62.5°	18122.0	17701.6	15890.9	5672.8	1188.5	400.1	283.2	252.6	283.2	181.4	150.9
65°	17218.4	16587.7	14458.3	4801.4	1120.6	379.8	240.8	211.9	215.3	159.4	130.5
67.5°	15640.0	14844.8	12551.0	3901.1	1091.9	381.5	203.4	189.9	166.2	135.7	115.3
70°	13144.4	12350.9	10070.6	3209.3	1078.2	381.5	172.9	162.7	139.0	113.6	100.0
72.5°	9314.5	8460.0	6793.4	2521.1	971.4	379.8	147.5	147.5	113.6	94.9	81.4
75°	5262.5	5269.3	4270.7	1783.6	807.0	313.6	118.7	117.0	83.1	72.9	61.1
77.5°	3067.0	3012.7	2878.7	766.3	374.7	142.4	83.1	71.2	57.6	52.6	44.1
80°	1576.7	1297.0	1263.1	278.0	134.0	89.8	57.6	40.7	37.3	33.9	30.5
82.5°	466.3	467.9	417.1	111.9	74.6	59.4	28.8	22.0	20.4	18.7	18.7
85°	32.2	20.4	23.7	33.9	45.8	23.7	1.7	5.0	5.0	6.8	8.5
87.5°	3.4	1.7	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°	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5
2.5°	6101.7	6176.3	6037.3	6040.7	5925.4	5962.7	5827.0	5871.1	5791.5	5852.5	6032.2
5°	4591.1	4608.1	4496.2	4460.6	4477.6	4547.0	4574.2	4450.4	4503.0	4399.5	4392.8
7.5°	3234.8	3255.2	3190.8	3182.3	3304.3	3275.5	3328.1	3200.9	3080.5	3133.1	3036.4
10°	2512.6	2427.8	2295.6	2258.3	2234.5	2249.8	2249.8	2134.5	2117.6	2071.8	2141.3
12.5°	1983.6	1880.2	1754.7	1585.2	1542.8	1539.5	1476.7	1375.0	1342.7	1303.7	1361.4
15°	1441.1	1398.7	1293.6	1198.7	1102.0	1083.4	981.6	898.5	788.4	773.1	768.0
17.5°	1013.8	951.1	949.4	895.2	839.2	801.9	706.9	612.0	569.7	564.6	564.6
20°	759.5	737.5	701.9	695.1	678.2	635.8	551.0	500.1	479.8	481.5	488.3
22.5°	639.2	623.9	591.7	576.4	569.7	532.4	469.6	435.7	425.5	425.5	427.2
25°	571.4	557.8	522.2	498.5	490.0	462.8	413.7	388.2	379.8	379.8	379.8
27.5°	520.5	503.5	466.3	445.9	430.6	400.1	369.6	344.1	335.7	335.7	337.4
30°	484.9	466.3	432.4	405.2	381.5	354.3	328.9	306.9	296.7	295.0	296.7
32.5°	437.4	420.4	386.5	369.6	342.5	310.2	289.9	269.5	259.4	261.1	259.4
35°	340.8	335.7	311.9	317.1	301.8	274.7	256.0	234.0	222.1	220.4	223.8
37.5°	310.2	289.9	262.8	264.5	259.4	249.2	218.7	194.9	186.5	186.5	188.2
40°	286.5	266.2	235.6	220.4	222.1	222.1	189.9	164.4	156.0	154.2	157.7
42.5°	266.2	245.8	211.9	186.5	179.7	188.2	161.1	135.7	127.2	123.8	127.2
45°	252.6	230.6	191.6	162.7	142.4	152.6	132.2	111.9	101.8	101.8	100.0
47.5°	239.0	218.7	176.4	140.7	118.7	113.6	108.5	89.8	79.6	78.0	79.6
50°	227.2	206.8	159.4	122.0	100.0	88.1	88.1	71.2	64.4	61.1	62.7
52.5°	215.3	193.3	144.1	108.5	86.5	71.2	62.7	57.6	52.6	50.9	52.6
55°	198.4	176.4	128.8	93.3	74.6	59.4	49.2	47.4	44.1	40.7	44.1
57.5°	178.0	157.7	113.6	79.6	59.4	45.8	40.7	39.0	35.6	33.9	33.9
59°	166.2	147.5	105.1	69.6	52.6	40.7	37.3	35.6	32.2	28.8	30.5
60°	159.4	144.1	100.0	64.4	47.4	37.3	33.9	32.2	28.8	27.2	28.8
62.5°	140.7	128.8	88.1	52.6	37.3	27.2	23.7	25.4	23.7	22.0	23.7
65°	123.8	113.6	74.6	40.7	28.8	18.7	17.0	22.0	20.4	18.7	20.4
67.5°	110.2	98.3	62.7	30.5	20.4	10.2	11.9	18.7	18.7	17.0	18.7
70°	94.9	84.8	50.9	22.0	10.2	5.0	8.5	13.5	17.0	15.2	17.0
72.5°	78.0	66.1	39.0	15.2	5.0	0.0	5.0	11.9	17.0	15.2	17.0
75°	61.1	49.2	28.8	8.5	0.0	0.0	1.7	10.2	17.0	15.2	17.0
77.5°	44.1	35.6	17.0	1.7	0.0	0.0	1.7	10.2	17.0	15.2	17.0
80°	28.8	25.4	6.8	0.0	0.0	0.0	1.7	10.2	17.0	17.0	18.7
82.5°	18.7	13.5	0.0	0.0	0.0	0.0	3.4	13.5	18.7	20.4	20.4
85°	8.5	0.0	0.0	0.0	0.0	0.0	6.8	17.0	22.0	22.0	22.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	11.9	20.4	25.4	25.4	25.4
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°	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5
2.5°	6062.7	6169.5	6320.5	6552.7	6740.9	7037.6	7264.7	7575.0	7888.7	7983.6	8131.1
5°	4462.3	4599.6	4942.1	5254.0	5450.7	6078.0	6474.7	7100.3	7661.5	7931.1	8224.3
7.5°	3099.2	3261.9	3523.0	3958.8	4372.4	4882.8	5523.6	6239.0	7061.3	7446.1	7859.8
10°	2175.2	2378.6	2746.5	3104.3	3624.7	4109.6	4742.0	5532.1	6439.1	6893.4	7412.2
12.5°	1373.3	1554.7	2041.3	2443.0	3092.4	3655.2	4238.5	4953.9	6005.1	6471.3	7015.5
15°	785.0	937.5	1164.7	1680.1	2400.6	3144.9	3872.3	4703.0	5783.0	6357.7	6946.0
17.5°	584.9	625.6	727.3	1019.0	1675.0	2544.8	3534.9	4626.8	5933.8	6608.7	7280.0
20°	491.6	518.8	566.2	681.5	1068.1	1959.9	3206.0	4640.3	6422.1	7269.9	7907.3
22.5°	440.8	457.8	496.8	571.4	729.0	1427.5	2821.1	4719.9	7013.9	8081.9	8817.7
25°	386.5	408.6	442.5	507.0	606.9	990.1	2441.3	4898.0	7842.9	9112.7	9804.5
27.5°	344.1	364.5	398.4	457.8	532.4	756.1	1998.9	5050.5	8717.7	10150.3	10716.6
30°	301.8	322.1	356.0	403.5	471.3	612.0	1522.5	5140.4	9567.1	10928.5	11364.2
32.5°	266.2	283.2	315.4	357.8	413.7	518.8	1200.4	5047.2	10216.5	11635.5	11927.1
35°	230.6	251.0	278.0	317.1	366.2	442.5	998.6	4725.1	10774.2	12362.8	12467.9
37.5°	193.3	217.0	245.8	281.4	320.4	406.9	801.9	4369.0	11371.0	13269.8	13096.9
40°	162.7	184.8	211.9	251.0	286.5	373.0	617.1	3989.3	12015.3	14120.9	13783.6
42.5°	132.2	156.0	188.2	223.8	283.2	325.6	478.1	3595.9	12593.4	14861.8	14404.1
45°	105.1	125.5	159.4	205.1	281.4	279.7	369.6	3207.7	13029.1	15390.8	14866.9
47.5°	83.1	100.0	134.0	200.1	259.4	237.3	296.7	2967.0	13486.9	15867.1	15221.3
50°	66.1	83.1	115.3	208.6	227.2	203.4	249.2	3005.9	13929.3	16109.6	15367.0
52.5°	55.9	72.9	100.0	164.4	174.6	178.0	218.7	3185.6	14500.7	16369.0	15657.0
55°	49.2	64.4	84.8	115.3	135.7	159.4	200.1	3316.1	15265.3	16925.1	16296.1
57.5°	39.0	55.9	76.3	98.3	111.9	139.0	184.8	3326.3	15957.0	17638.9	17145.5
59°	35.6	50.9	71.2	93.3	100.0	125.5	174.6	3239.9	15982.4	17745.7	17535.4
60°	32.2	49.2	67.8	86.5	94.9	118.7	166.2	3139.9	15751.9	17576.1	17696.5
62.5°	27.2	42.4	59.4	69.6	81.4	98.3	144.1	2777.1	14634.7	16808.1	17398.1
65°	23.7	37.3	50.9	57.6	67.8	84.8	127.2	2222.7	13400.4	15767.2	16543.6
67.5°	22.0	33.9	44.1	49.2	59.4	78.0	113.6	1569.9	11801.6	14446.4	15260.2
70°	20.4	32.2	39.0	45.8	52.6	66.1	96.6	915.5	9090.7	12130.5	12990.1
72.5°	20.4	30.5	33.9	39.0	45.8	59.4	89.8	495.0	6215.3	9253.4	10363.9
75°	20.4	28.8	30.5	33.9	40.7	54.2	79.6	259.4	4018.0	6428.9	7934.4
77.5°	20.4	27.2	30.5	32.2	39.0	47.4	69.6	162.7	2677.0	4503.0	5362.6
80°	22.0	27.2	28.8	32.2	37.3	44.1	57.6	108.5	1573.3	2709.2	3263.7
82.5°	23.7	27.2	30.5	33.9	39.0	42.4	50.9	67.8	725.6	1792.0	2027.7
85°	25.4	28.8	32.2	35.6	40.7	42.4	47.4	49.2	118.7	808.7	1093.6
87.5°	27.2	30.5	33.9	37.3	44.1	44.1	44.1	44.1	40.7	86.5	220.4
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°	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5	7371.5
2.5°	8317.6	8509.2	8643.1	8677.0	8580.4	8536.3	8414.2	8224.3	8109.1	8104.0
5°	8765.2	9214.4	9526.4	9579.0	9392.5	9077.2	8702.4	8219.3	7936.1	7851.3
7.5°	8688.9	9475.5	9977.4	10050.3	9736.7	9134.8	8409.2	7631.0	7322.4	7191.9
10°	8375.3	9334.8	10052.0	10167.3	9748.5	8900.8	7978.5	7110.5	6727.3	6627.2
12.5°	8107.4	9077.2	9714.6	9873.9	9557.0	8710.9	7720.8	6776.4	6366.2	6272.9
15°	7990.4	8772.0	9161.9	9243.3	9190.7	8592.2	7693.7	6725.6	6256.0	6154.3
17.5°	8107.4	8512.6	8561.7	8644.8	8761.8	8580.4	7954.8	7002.0	6495.0	6369.6
20°	8414.2	8287.0	8083.6	8119.3	8387.1	8629.6	8419.3	7614.0	6996.9	6863.0
22.5°	8936.4	8231.1	7770.0	7739.5	8078.6	8794.0	9100.9	8443.1	7727.6	7595.3
25°	9577.3	8371.8	7654.7	7588.6	7958.1	9034.8	9841.7	9458.6	8677.0	8475.3
27.5°	10275.8	8663.5	7654.7	7590.3	7948.0	9248.4	10475.8	10357.2	9660.3	9440.0
30°	10658.9	8904.2	7764.9	7692.0	8073.4	9372.1	10814.9	11155.7	10399.6	10126.6
32.5°	11001.4	9238.2	7980.2	7842.9	8336.2	9555.2	11118.4	11833.9	10987.8	10804.7
35°	11316.7	9595.9	8276.9	8117.5	8682.1	9806.1	11454.1	12545.9	11806.7	11530.4
37.5°	11664.3	10011.3	8739.8	8604.1	9260.3	10294.4	11852.5	13481.7	12612.1	12264.5
40°	12042.4	10492.8	9500.9	9443.3	10179.1	10847.1	12356.1	14480.3	13530.9	13135.9
42.5°	12427.2	11047.2	10433.4	10528.4	11220.1	11621.9	12873.1	15248.3	14283.7	13848.0
45°	12776.5	11755.8	11645.7	12115.3	12434.0	12378.1	13256.3	15789.2	14939.8	14522.7
47.5°	13217.2	12788.3	13112.2	13836.1	13844.5	13200.3	13546.2	16231.7	15504.3	15087.3
50°	13710.7	14007.4	15005.9	15743.4	15545.0	14009.0	13885.2	16755.6	16087.6	15753.6
52.5°	14281.9	15372.1	16755.6	17574.5	17111.6	14890.7	14449.8	17321.8	17013.3	16692.8
55°	14946.6	16302.9	18500.1	19152.8	18686.6	15985.9	15307.7	18089.8	18059.3	17840.6
57.5°	15697.6	17286.3	19510.6	20393.9	19978.5	17270.9	16506.3	18813.8	18698.5	18576.4
59°	16291.0	17791.4	19956.4	20871.9	20621.1	18171.2	17311.6	19264.7	18846.0	18662.9
60°	16650.5	18133.9	20120.9	20936.4	20878.8	18707.0	17822.0	19485.1	18844.3	18590.0
62.5°	17716.8	18732.3	20058.2	20649.9	20875.4	19734.4	19319.0	19727.6	18495.0	18122.0
65°	18096.6	18534.0	19018.9	18946.0	19139.3	19681.8	20275.2	19461.4	17749.1	17218.4
67.5°	17357.4	16358.9	16530.1	16043.5	15948.6	17498.2	19887.0	18159.4	16289.3	15640.0
70°	14631.2	12532.3	12445.9	12669.7	12055.9	14166.7	17857.5	15651.9	13880.2	13144.4
72.5°	11516.8	8856.7	8127.7	8951.7	8933.0	10808.1	14834.7	11106.5	9377.2	9314.5
75°	9056.8	6166.1	5411.7	5545.6	5803.3	7824.2	11815.2	7052.8	5774.5	5262.5
77.5°	6079.7	4369.0	4075.7	3911.2	4189.3	5023.5	7475.0	3824.8	3238.2	3067.0
80°	3504.4	3173.8	3604.4	3272.1	3421.3	3165.3	3718.0	1754.7	1456.4	1576.7
82.5°	2280.3	1807.3	1926.0	1430.9	1956.5	1973.4	1193.5	518.8	439.1	466.3
85°	1425.8	847.7	476.4	339.1	674.7	1241.1	373.0	32.2	37.3	32.2
87.5°	369.6	140.7	59.4	88.1	108.5	96.6	86.5	5.0	1.7	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)