

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: P453508

Luminaire Tested: **GALN-SA4C-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453508
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-SA4C-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 19973 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

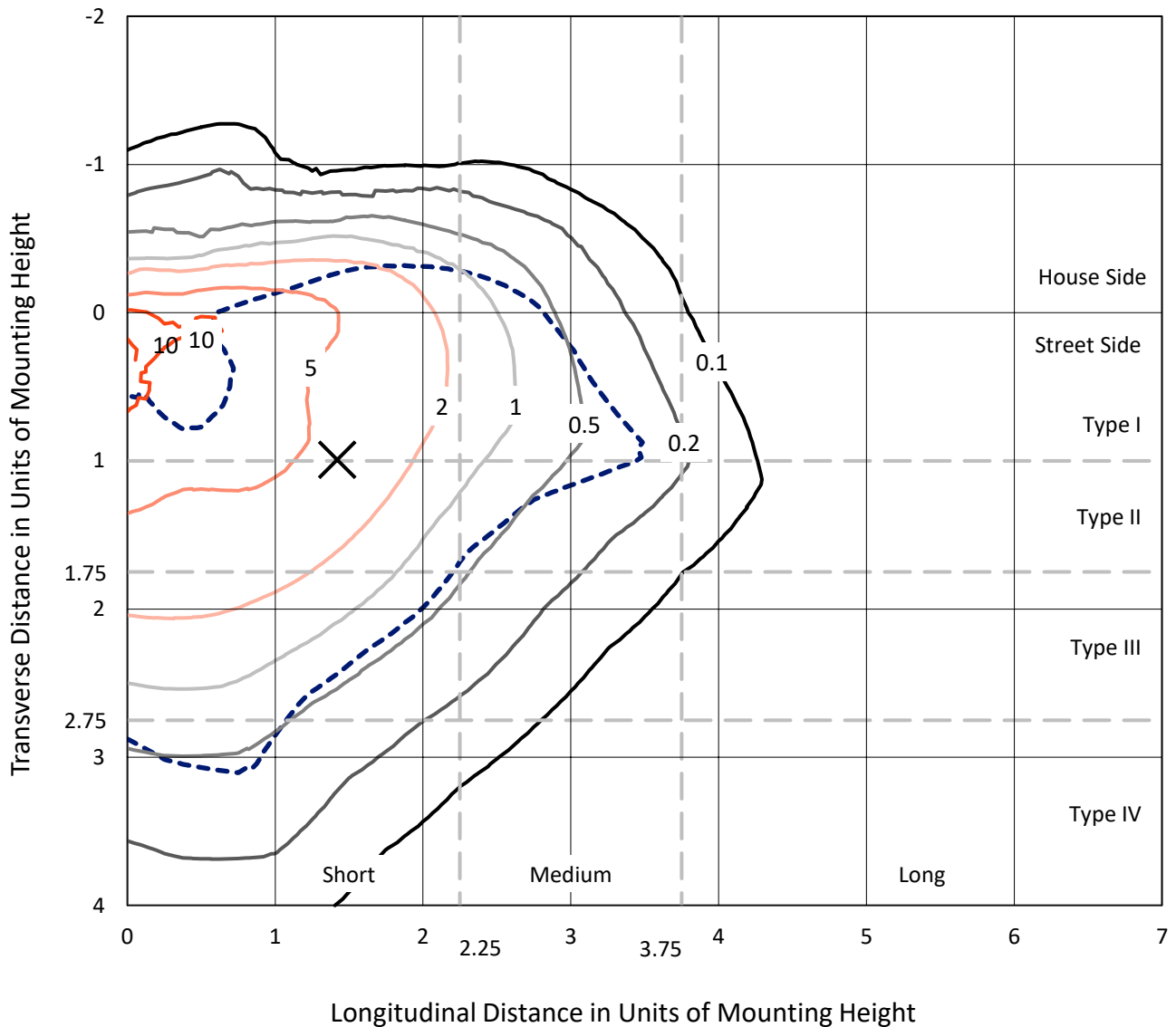
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

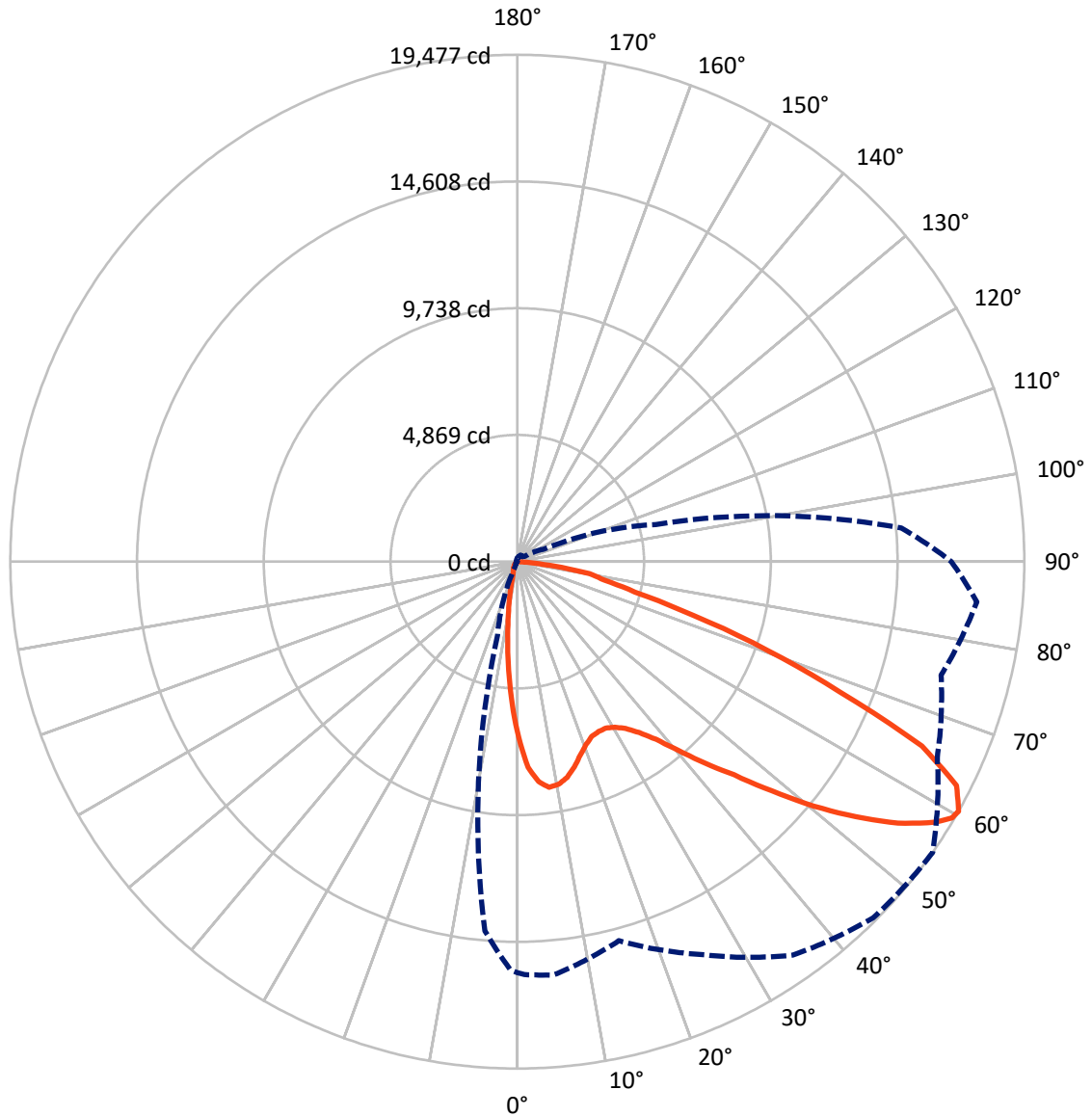
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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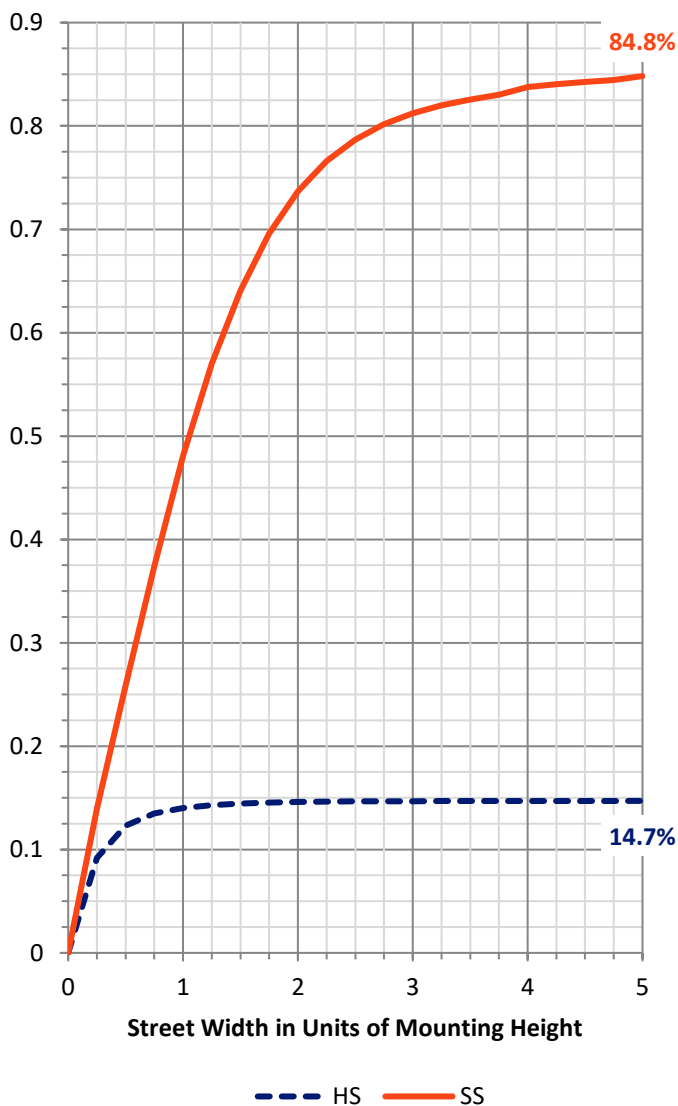
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2964.2	0.0	2964.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17008.8	0.0	17008.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	19973.0	0.0	19973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.8	2.5
10°-20°	986.2	4.9
20°-30°	1459.7	7.3
30°-40°	2175.9	10.9
40°-50°	3186.6	16.0
50°-60°	4600.4	23.0
60°-70°	4839.4	24.2
70°-80°	1990.8	10.0
80°-90°	233.2	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°	19973.0	100.0
0°-180°	19973.0	100.0

Coefficient of Utilization



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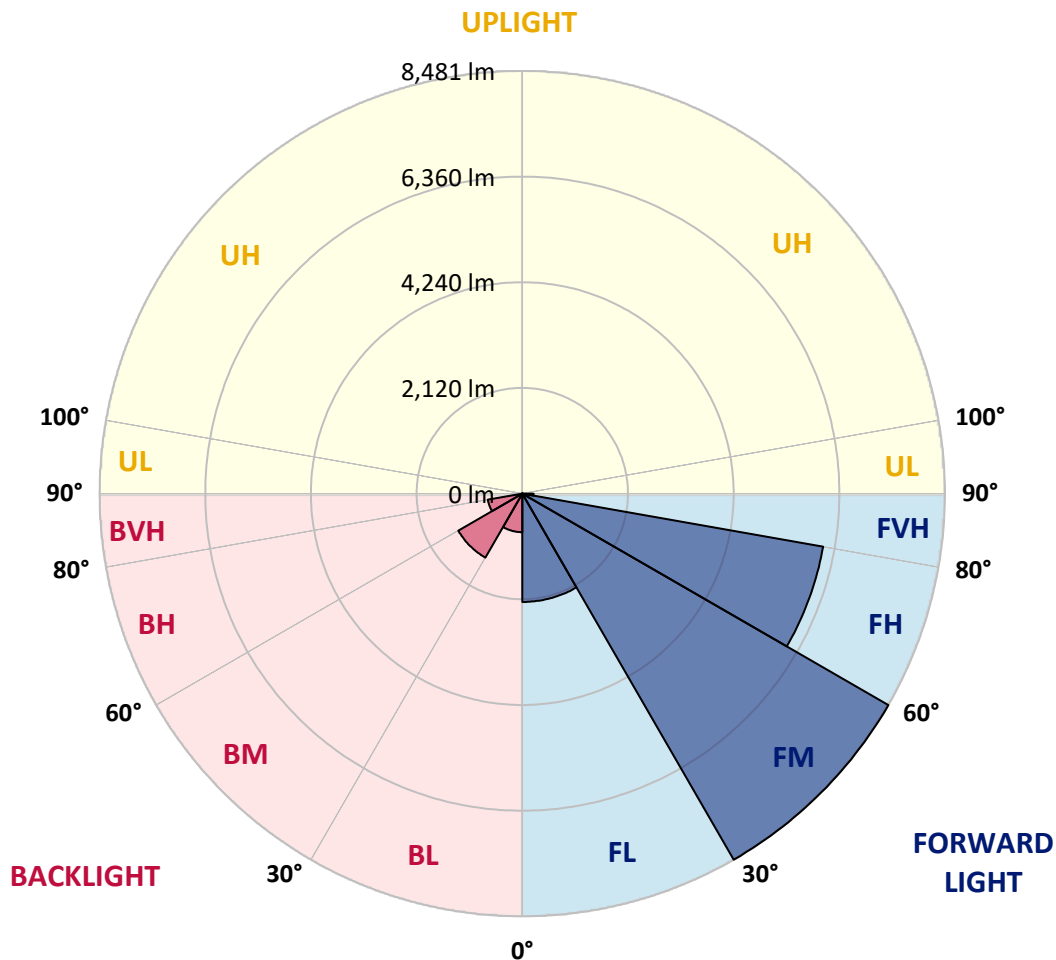
CATALOG NUMBER: GALN-SA4C-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2173.3	10.9			
FM	(30°-60°)	8480.6	42.5			
FH	(60°-80°)	6128.6	30.7			G3/7500
FVH	(80°-90°)	226.3	1.1			G3/500
BL	(0°-30°)	773.4	3.9	B2/1000		
BM	(30°-60°)	1482.4	7.4	B2/2500		
BH	(60°-80°)	701.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8
2.5°	7388.5	7376.2	7485.4	7663.7	7843.6	7937.3	7918.9	7911.2	7762.1	7652.9	7423.9
5°	7373.1	7436.2	7631.4	8114.1	8480.0	8656.8	8709.1	8489.2	8198.7	7777.5	7257.8
7.5°	6931.9	7010.3	7328.5	8083.4	8733.7	9118.0	9104.2	8752.1	8152.6	7500.7	6759.7
10°	6384.6	6476.9	6850.4	7766.7	8610.7	9118.0	9145.7	8699.9	7954.2	7117.9	6338.5
12.5°	5998.7	6107.9	6521.4	7471.5	8294.0	8793.6	8825.9	8503.1	7805.1	6970.3	6109.4
15°	5868.1	5971.1	6390.8	7322.4	7957.3	8226.4	8218.7	8184.9	7746.7	7005.7	6121.7
17.5°	6092.5	6177.1	6650.6	7390.0	7642.2	7614.5	7654.5	7817.4	7759.0	7302.4	6509.1
20°	6672.1	6758.2	7267.1	7597.6	7400.8	7225.5	7244.0	7516.1	7872.8	7860.5	7114.9
22.5°	7470.0	7616.0	8077.2	8000.4	7368.5	6984.2	6945.7	7299.3	8066.5	8503.1	7932.7
25°	8480.0	8627.6	8987.3	8643.0	7526.9	6927.3	6891.9	7233.2	8301.7	9130.3	8853.6
27.5°	9328.6	9440.9	9799.1	9268.7	7760.5	6951.9	6893.5	7242.5	8492.3	9663.8	9630.0
30°	10008.1	10091.2	10301.8	9560.8	7961.9	7059.5	6991.9	7377.7	8576.9	9923.6	10258.7
32.5°	10555.4	10695.3	10761.4	9872.9	8251.0	7262.4	7147.1	7637.6	8782.9	10244.9	10918.3
35°	11181.1	11342.6	11258.0	10171.1	8632.2	7579.1	7437.7	8058.8	9095.0	10541.6	11683.9
37.5°	11974.4	12160.4	11829.9	10484.7	9035.0	8055.7	7989.6	8650.7	9568.5	10965.9	12504.8
40°	12795.4	12903.0	12384.9	10866.0	9530.0	8749.1	8812.1	9530.0	10188.0	11474.8	13378.0
42.5°	13436.4	13537.9	12955.2	11185.8	10035.8	9571.5	9834.4	10590.8	10898.3	11995.9	14029.9
45°	13926.9	14012.9	13350.3	11534.7	10718.4	10763.0	11259.6	11683.9	11610.1	12314.2	14532.6
47.5°	14308.1	14381.9	13654.7	11909.9	11740.7	12220.4	12979.8	13159.7	12348.0	12658.5	14987.6
50°	14464.9	14486.4	13750.1	12388.0	12901.4	14077.5	14869.2	14760.1	13193.5	13041.3	15471.9
52.5°	14669.4	14664.8	14022.2	12843.0	13993.0	15737.9	16528.0	16280.5	14149.8	13614.8	16016.1
55°	15205.9	15212.1	14604.8	13488.7	14923.1	17078.4	17924.0	17744.1	15158.3	14583.3	16651.0
57.5°	15857.8	15880.8	15433.5	14243.5	15811.6	18050.0	18966.3	18897.1	16521.9	15661.0	17250.6
59°	15942.3	15988.4	15825.5	14775.5	16339.0	18348.3	19323.0	19390.6	17252.1	16371.2	17575.0
60°	15788.6	15865.5	15939.2	15076.8	16648.0	18455.9	19344.5	19476.7	17801.0	16854.0	17722.6
62.5°	15118.3	15239.8	15610.3	16003.8	17033.8	18120.7	18657.3	18934.0	18480.5	18122.3	17736.4
65°	14240.5	14303.5	14838.5	16168.3	16285.1	16555.7	16721.8	17076.9	17664.2	18611.2	17101.5
67.5°	12801.5	12987.5	13642.4	15213.6	14076.0	13756.2	13714.7	13361.1	14886.2	17445.8	15536.5
70°	10575.4	10658.4	11465.6	12472.5	10623.1	10131.1	10327.9	10195.7	11539.3	15018.4	12504.8
72.5°	7997.3	8184.9	8973.5	9942.0	7228.6	6590.6	7133.3	7084.1	8667.6	12069.7	8590.7
75°	5689.7	5811.2	6816.6	7780.5	5062.5	4289.2	4484.4	4667.4	6051.0	9530.0	5076.3
77.5°	3909.5	4014.0	4768.9	5145.5	3692.7	3537.4	3236.1	3412.9	3964.8	5654.4	2762.6
80°	2358.3	2353.7	2850.2	2942.5	2572.0	2987.1	2505.9	2813.4	2396.7	2419.8	1070.0
82.5°	1531.2	1515.8	1743.4	1900.2	1431.3	1505.1	1010.0	1455.9	1561.9	674.9	338.2
85°	685.7	714.9	837.9	1105.4	627.2	333.6	206.0	447.4	665.7	339.8	0.0
87.5°	70.7	55.3	147.6	269.0	86.1	9.2	30.7	15.4	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8
2.5°	7317.8	7228.6	6962.7	6713.6	6499.9	6238.6	6069.5	5803.5	5642.1	5592.9	5600.6
5°	7024.2	6767.4	6261.6	5857.3	5406.9	5150.1	4759.6	4384.5	4181.6	4106.3	4072.4
7.5°	6409.2	6134.0	5523.7	4888.8	4406.0	3955.6	3665.0	3334.5	3108.5	2922.5	2890.2
10°	5952.6	5591.3	4835.0	4152.4	3771.1	3432.9	3142.3	2811.8	2545.9	2333.7	2275.3
12.5°	5679.0	5274.6	4430.6	3858.7	3497.5	3150.0	2771.8	2389.0	2116.9	1887.9	1781.8
15°	5629.8	5160.9	4316.9	3648.1	3202.3	2782.6	2279.9	1866.3	1586.5	1369.8	1303.7
17.5°	5926.5	5365.4	4300.0	3428.3	2816.4	2221.5	1698.8	1355.9	1040.8	919.3	871.7
20°	6455.3	5726.6	4298.4	3173.1	2419.8	1711.1	1193.0	884.0	756.4	698.0	670.3
22.5°	7176.3	6218.6	4379.9	2953.2	2007.8	1262.2	851.7	704.1	630.3	582.7	571.9
25°	8057.3	6947.3	4579.8	2804.1	1692.6	990.1	702.6	602.6	541.1	519.6	510.4
27.5°	8839.8	7645.2	4799.6	2650.4	1466.6	876.3	651.8	551.9	502.7	485.8	472.0
30°	9514.7	8278.6	4905.7	2447.5	1285.2	802.5	661.1	590.3	525.8	475.0	452.0
32.5°	10077.3	8764.4	4974.9	2263.0	1131.5	656.4	522.7	456.6	427.4	408.9	393.6
35°	10781.4	9290.2	4933.4	2158.4	1053.1	598.0	476.6	393.6	344.4	307.5	292.1
37.5°	11519.4	9816.0	4861.1	2072.3	1017.7	555.0	453.5	373.6	319.8	281.3	261.3
40°	12283.4	10303.3	4776.5	1992.4	985.4	527.3	439.7	356.7	302.9	261.3	239.8
42.5°	12982.9	10778.4	4742.7	1940.1	933.2	531.9	428.9	349.0	285.9	242.9	224.5
45°	13548.7	11228.8	4788.8	1912.5	876.3	524.2	432.0	339.8	272.1	230.6	212.2
47.5°	14152.8	11865.3	4938.0	1884.8	820.9	487.3	455.1	338.2	266.0	222.9	202.9
50°	14855.4	12680.1	5279.3	1817.1	753.3	447.4	484.3	336.7	258.3	213.7	193.7
52.5°	15791.7	13605.5	5631.3	1698.8	654.9	408.9	462.7	332.1	242.9	202.9	182.9
55°	16632.6	14580.2	5929.6	1558.9	530.4	353.6	416.6	312.1	216.8	184.5	166.0
57.5°	16980.0	15130.6	5920.3	1365.2	424.3	310.5	342.8	285.9	189.1	163.0	147.6
59°	16852.4	15061.4	5722.0	1222.2	387.4	287.5	284.4	282.9	176.8	147.6	135.3
60°	16672.6	14809.3	5508.3	1151.5	364.4	272.1	261.3	279.8	166.0	138.4	126.1
62.5°	15983.8	13763.9	4799.6	1031.6	333.6	230.6	209.1	236.8	147.6	119.9	109.2
65°	14986.1	12157.4	4063.2	997.7	324.4	190.6	173.7	169.1	126.1	101.5	92.2
67.5°	13039.8	10287.9	3291.5	974.7	327.5	159.9	152.2	127.6	104.5	84.6	78.4
70°	10440.1	8021.9	2695.0	948.5	330.5	130.7	127.6	101.5	84.6	70.7	64.6
72.5°	6343.1	4755.0	2121.5	824.0	321.3	104.5	113.8	76.9	61.5	50.7	47.7
75°	3921.8	3254.6	1316.0	641.1	212.2	76.9	79.9	47.7	41.5	32.3	32.3
77.5°	2272.2	2055.4	470.4	230.6	93.8	46.1	35.4	24.6	23.1	13.8	13.8
80°	942.4	754.8	163.0	78.4	50.7	21.5	7.7	1.5	0.0	0.0	0.0
82.5°	275.2	244.4	44.6	35.4	15.4	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°	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8
2.5°	5469.9	5419.2	5396.1	5474.5	5402.2	5494.5	5423.8	5454.5	5545.2	5585.2	5688.2
5°	4094.0	4041.7	4017.1	4135.5	4129.3	4187.7	4181.6	4235.4	4281.5	4178.5	4284.6
7.5°	2851.8	2816.4	2874.8	2967.1	3065.5	3033.2	3033.2	2960.9	2985.5	2970.2	2965.5
10°	2169.2	2047.8	2017.0	2013.9	2050.8	2058.5	2017.0	1917.1	1954.0	1964.7	2029.3
12.5°	1706.5	1612.7	1469.7	1405.1	1388.2	1402.1	1265.2	1177.6	1219.1	1194.5	1257.6
15°	1223.7	1146.9	1062.3	990.1	970.1	942.4	793.3	688.7	676.4	681.0	691.8
17.5°	873.2	820.9	820.9	744.1	702.6	619.6	544.2	498.1	493.5	498.1	505.8
20°	644.1	616.5	613.4	593.4	547.3	492.0	439.7	430.5	427.4	435.1	438.1
22.5°	555.0	525.8	501.2	499.6	456.6	410.5	385.9	373.6	375.1	378.2	385.9
25°	496.6	465.8	439.7	424.3	393.6	361.3	338.2	332.1	332.1	336.7	338.2
27.5°	455.1	416.6	393.6	372.0	344.4	316.7	296.7	292.1	289.0	292.1	299.8
30°	425.8	387.4	358.2	325.9	304.4	278.3	261.3	255.2	253.7	255.2	261.3
32.5°	364.4	341.3	318.2	289.0	262.9	246.0	227.5	216.8	216.8	219.8	226.0
35°	275.2	262.9	261.3	253.7	232.1	213.7	192.2	181.4	181.4	187.6	190.6
37.5°	242.9	219.8	216.8	213.7	204.5	179.9	159.9	150.7	149.1	153.7	159.9
40°	221.4	195.2	181.4	178.3	179.9	152.2	130.7	121.5	121.5	123.0	129.1
42.5°	204.5	173.7	149.1	146.0	152.2	127.6	106.1	96.9	96.9	96.9	104.5
45°	190.6	155.3	126.1	110.7	119.9	104.5	86.1	76.9	73.8	76.9	79.9
47.5°	181.4	141.4	110.7	89.2	89.2	83.0	69.2	58.4	55.3	56.9	61.5
50°	173.7	129.1	93.8	72.3	64.6	66.1	52.3	44.6	41.5	41.5	46.1
52.5°	161.4	116.8	81.5	61.5	49.2	44.6	38.4	32.3	30.7	32.3	35.4
55°	146.0	106.1	70.7	50.7	38.4	30.7	27.7	23.1	21.5	23.1	27.7
57.5°	129.1	89.2	56.9	40.0	26.1	20.0	18.4	15.4	12.3	13.8	16.9
59°	118.4	79.9	49.2	32.3	20.0	13.8	13.8	10.8	7.7	9.2	13.8
60°	113.8	73.8	41.5	27.7	16.9	10.8	10.8	7.7	4.6	6.1	10.8
62.5°	96.9	61.5	32.3	16.9	7.7	1.5	4.6	1.5	0.0	1.5	4.6
65°	81.5	49.2	21.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	67.6	36.9	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	53.8	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	36.9	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	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°	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8	6762.8
2.5°	5694.3	5914.2	6049.5	6304.7	6566.0	6767.4	7019.5	7245.5	7339.3	7388.5
5°	4392.2	4698.1	4958.0	5346.9	5708.2	6147.9	6593.7	7119.5	7320.9	7373.1
7.5°	3082.4	3394.5	3666.6	4117.0	4632.0	5220.8	5888.1	6555.3	6848.9	6931.9
10°	2226.1	2559.7	2891.8	3342.2	3823.4	4461.4	5156.3	5981.8	6320.0	6384.6
12.5°	1405.1	1763.3	2303.0	2859.5	3368.3	3881.8	4609.0	5506.8	5880.4	5998.7
15°	814.8	1082.3	1489.7	2215.3	2862.5	3542.1	4335.3	5328.5	5746.6	5868.1
17.5°	545.8	638.0	917.8	1472.8	2327.5	3228.4	4266.1	5474.5	5937.2	6092.5
20°	459.7	501.2	599.6	897.8	1792.6	2948.6	4284.6	5871.1	6478.4	6672.1
22.5°	404.3	442.8	505.8	645.7	1251.4	2601.2	4372.2	6438.4	7222.5	7470.0
25°	356.7	395.1	450.4	535.0	840.9	2199.9	4564.4	7268.6	8207.9	8480.0
27.5°	316.7	352.1	399.7	472.0	647.2	1752.6	4735.0	8077.2	9107.3	9328.6
30°	279.8	309.0	355.1	410.5	538.1	1351.3	4821.1	8784.4	9762.2	10008.1
32.5°	242.9	270.6	315.2	359.7	442.8	1030.0	4761.2	9304.0	10398.6	10555.4
35°	207.5	236.8	273.6	315.2	382.8	831.7	4461.4	9888.2	11058.2	11181.1
37.5°	178.3	202.9	241.4	273.6	345.9	665.7	4098.6	10414.0	11797.6	11974.4
40°	150.7	175.3	213.7	242.9	318.2	524.2	3771.1	10998.2	12577.1	12795.4
42.5°	123.0	152.2	186.0	233.7	273.6	399.7	3374.5	11471.7	13162.8	13436.4
45°	98.4	130.7	167.6	232.1	238.3	304.4	2991.7	11840.7	13680.9	13926.9
47.5°	78.4	110.7	161.4	216.8	195.2	241.4	2773.4	12226.5	14111.3	14308.1
50°	63.0	92.2	169.1	190.6	163.0	204.5	2767.2	12657.0	14334.3	14464.9
52.5°	50.7	75.3	143.0	146.0	138.4	179.9	2933.3	13141.3	14561.8	14669.4
55°	43.0	63.0	93.8	107.6	124.5	163.0	3057.8	13886.9	15104.5	15205.9
57.5°	33.8	53.8	72.3	86.1	110.7	149.1	3074.7	14461.9	15791.7	15857.8
59°	29.2	46.1	64.6	76.9	101.5	139.9	3005.5	14497.2	15836.2	15942.3
60°	24.6	41.5	56.9	72.3	93.8	132.2	2930.2	14240.5	15670.2	15788.6
62.5°	18.4	32.3	41.5	58.4	76.9	113.8	2573.5	13344.2	15035.3	15118.3
65°	12.3	23.1	30.7	43.0	60.0	98.4	2096.9	12182.0	14054.5	14240.5
67.5°	7.7	16.9	24.6	32.3	49.2	83.0	1494.3	10446.3	12681.6	12801.5
70°	4.6	10.8	18.4	26.1	38.4	66.1	887.1	8257.1	10550.8	10575.4
72.5°	3.1	7.7	12.3	18.4	30.7	60.0	430.5	5382.3	7703.7	7997.3
75°	1.5	4.6	7.7	13.8	24.6	49.2	206.0	3595.9	5605.2	5689.7
77.5°	0.0	1.5	4.6	9.2	18.4	38.4	119.9	2361.4	3821.9	3909.5
80°	0.0	0.0	3.1	7.7	13.8	24.6	72.3	1392.8	2315.2	2358.3
82.5°	0.0	0.0	1.5	6.1	9.2	18.4	36.9	611.9	1515.8	1531.2
85°	0.0	0.0	1.5	6.1	7.7	12.3	13.8	83.0	673.4	685.7
87.5°	0.0	0.0	1.5	7.7	7.7	7.7	7.7	4.6	56.9	70.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)