

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: P454871

Luminaire Tested: **GALN-SA6A-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454871
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-SA6A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 17736 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

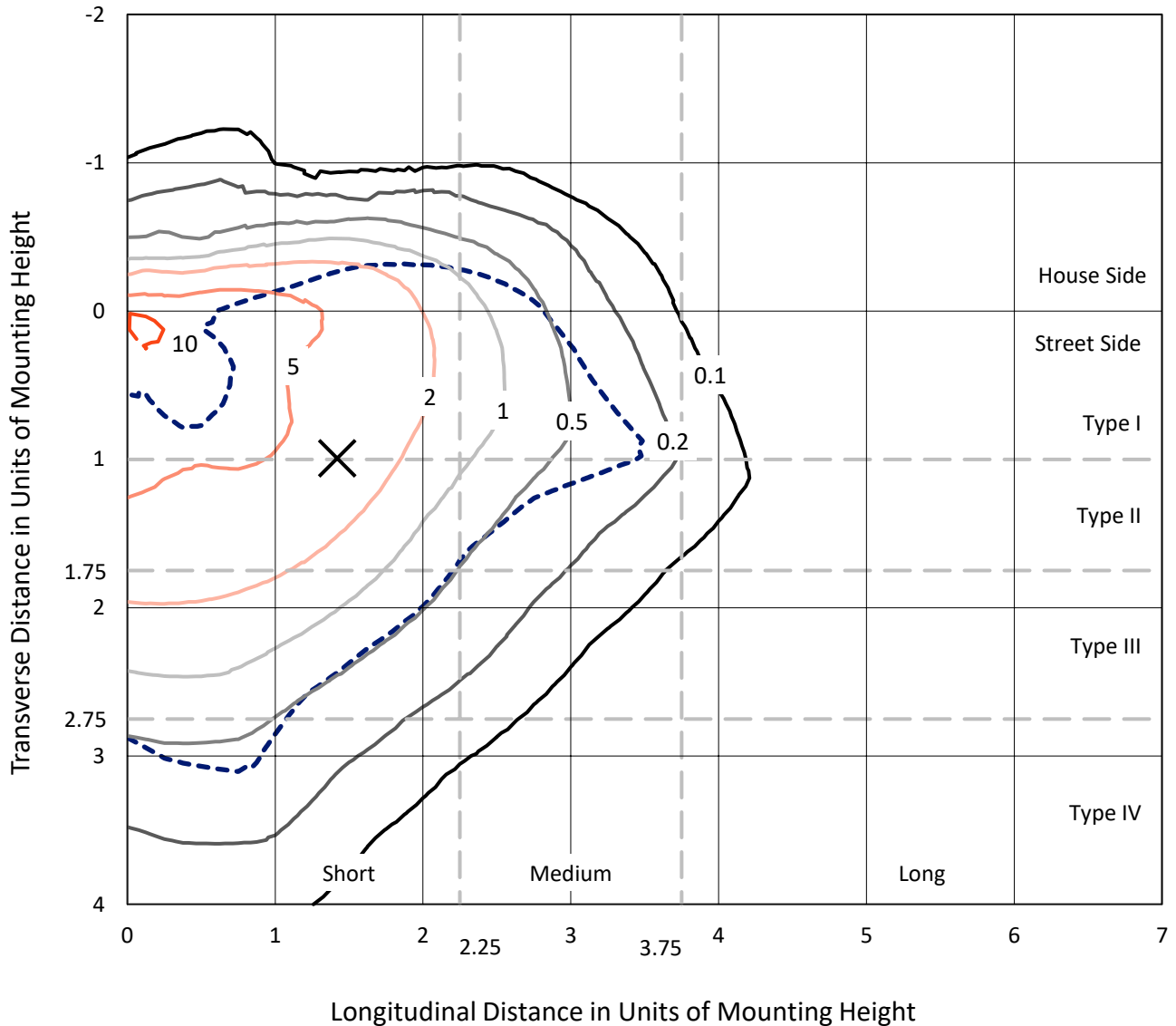
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

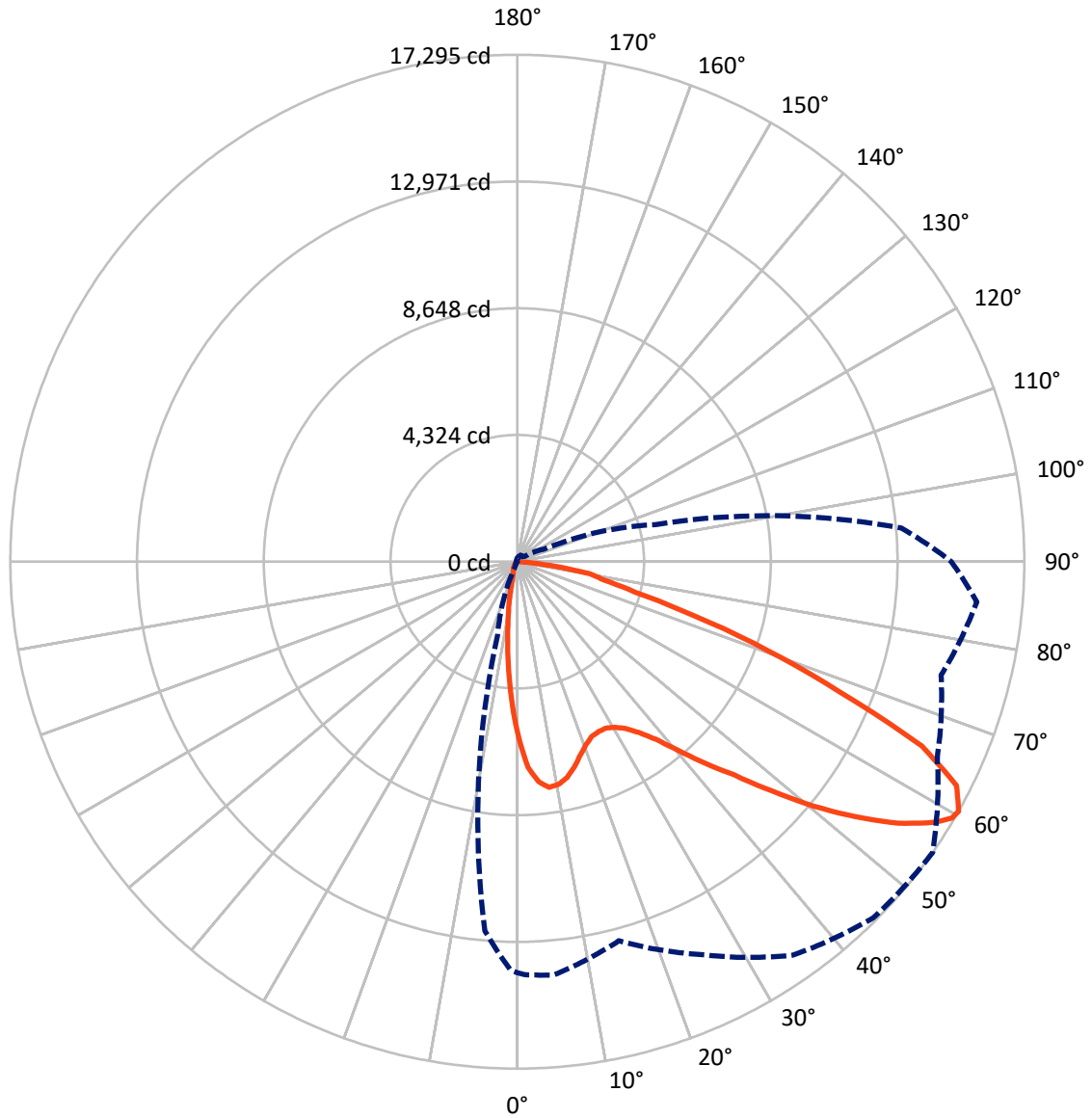
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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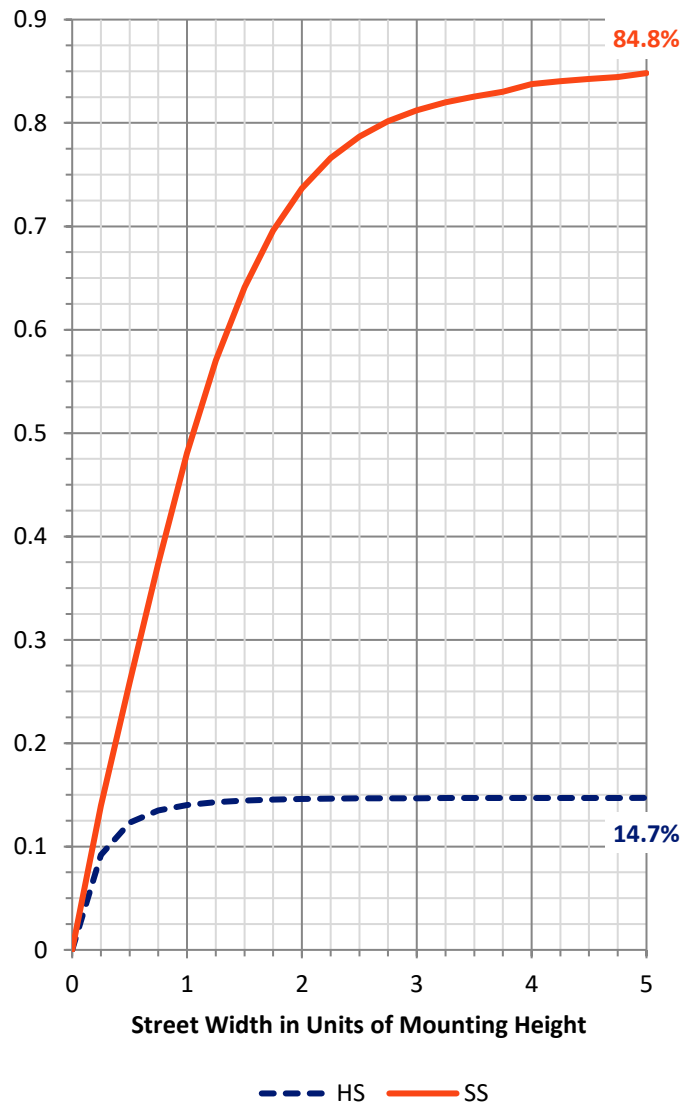
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.2	0.0	2632.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	15103.8	0.0	15103.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	17736.0	0.0	17736.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.7	2.5
10°-20°	875.7	4.9
20°-30°	1296.2	7.3
30°-40°	1932.2	10.9
40°-50°	2829.7	16.0
50°-60°	4085.2	23.0
60°-70°	4297.4	24.2
70°-80°	1767.8	10.0
80°-90°	207.0	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°	17736.0	100.0
0°-180°	17736.0	100.0



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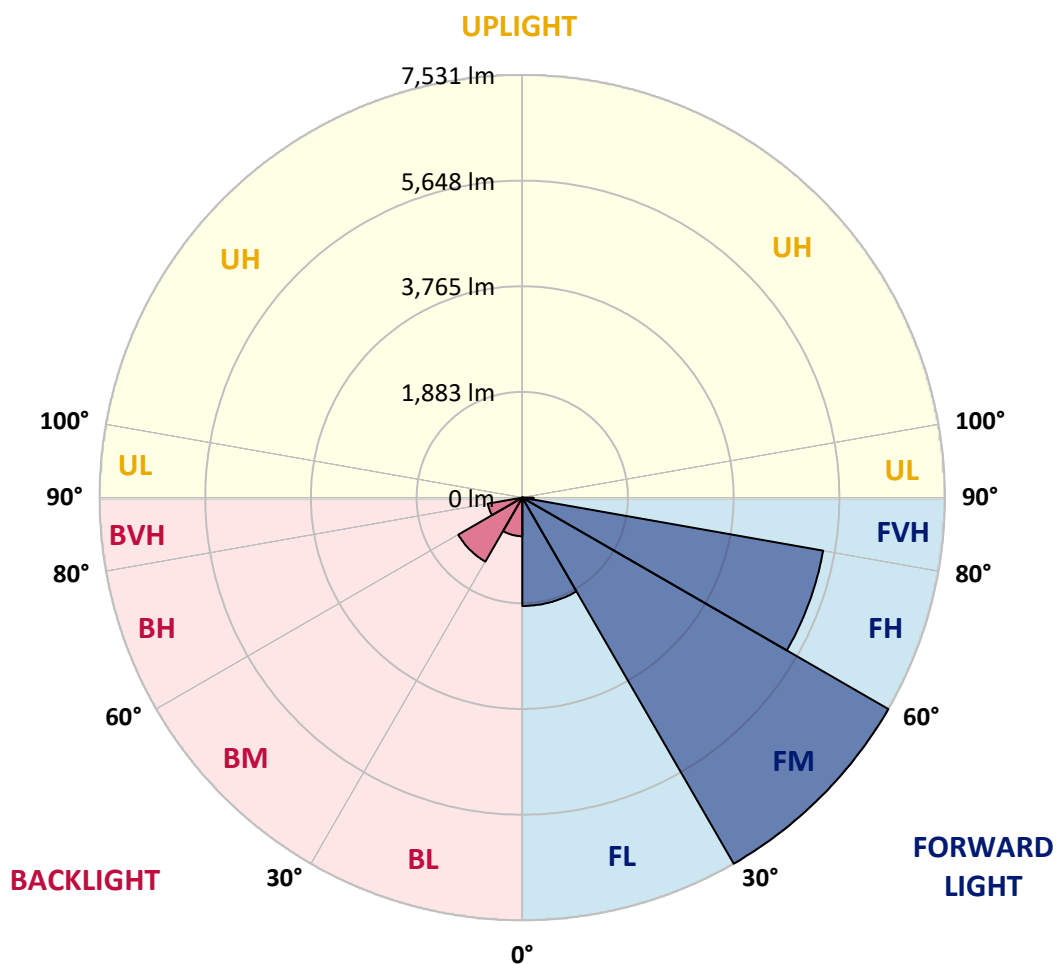
CATALOG NUMBER: GALN-SA6A-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1929.9	10.9			
FM	(30°-60°)	7530.7	42.5			
FH	(60°-80°)	5442.2	30.7			G3/7500
FVH	(80°-90°)	201.0	1.1			G2/225
BL	(0°-30°)	686.7	3.9	B2/1000		
BM	(30°-60°)	1316.3	7.4	B2/2500		
BH	(60°-80°)	623.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.1	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°	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4
2.5°	6561.0	6550.1	6647.0	6805.3	6965.1	7048.3	7032.0	7025.1	6892.7	6795.8	6592.4
5°	6547.3	6603.3	6776.7	7205.3	7530.2	7687.2	7733.7	7538.4	7280.4	6906.4	6444.9
7.5°	6155.5	6225.2	6507.7	7178.0	7755.5	8096.8	8084.5	7771.9	7239.5	6660.6	6002.6
10°	5669.5	5751.4	6083.2	6896.8	7646.3	8096.8	8121.4	7725.5	7063.4	6320.7	5628.6
12.5°	5326.9	5423.8	5791.0	6634.7	7365.1	7808.7	7837.4	7550.7	6930.9	6189.7	5425.2
15°	5210.8	5302.3	5675.0	6502.3	7066.1	7305.0	7298.2	7268.1	6879.1	6221.1	5436.1
17.5°	5410.1	5485.2	5905.7	6562.3	6786.2	6761.7	6797.2	6941.9	6890.0	6484.5	5780.1
20°	5924.8	6001.3	6453.1	6746.6	6571.9	6416.3	6432.7	6674.3	6991.0	6980.1	6318.0
22.5°	6633.3	6763.0	7172.6	7104.3	6543.2	6201.9	6167.8	6481.8	7163.0	7550.7	7044.3
25°	7530.2	7661.3	7980.8	7675.0	6683.8	6151.4	6120.0	6423.1	7371.9	8107.7	7862.0
27.5°	8283.8	8383.5	8701.6	8230.6	6891.4	6173.3	6121.4	6431.3	7541.2	8581.4	8551.4
30°	8887.2	8960.9	9148.0	8490.0	7070.2	6268.8	6208.8	6551.4	7616.3	8812.1	9109.7
32.5°	9373.2	9497.5	9556.2	8767.1	7326.8	6449.0	6346.7	6782.1	7799.2	9097.5	9695.4
35°	9928.8	10072.2	9997.1	9031.9	7665.4	6730.3	6604.7	7156.2	8076.3	9360.9	10375.3
37.5°	10633.3	10798.5	10504.9	9310.4	8023.1	7153.5	7094.8	7681.8	8496.8	9737.7	11104.3
40°	11362.3	11457.8	10997.8	9649.0	8462.7	7769.2	7825.1	8462.7	9046.9	10189.6	11879.7
42.5°	11931.5	12021.6	11504.2	9932.9	8911.8	8499.5	8733.0	9404.6	9677.7	10652.4	12458.5
45°	12367.0	12443.5	11855.1	10242.8	9517.9	9557.5	9998.5	10375.3	10309.7	10935.0	12904.9
47.5°	12705.6	12771.1	12125.4	10575.9	10425.8	10851.7	11526.1	11685.8	10965.0	11240.8	13309.0
50°	12844.8	12863.9	12210.0	11000.5	11456.5	12500.8	13203.9	13106.9	11715.8	11580.7	13739.0
52.5°	13026.4	13022.3	12451.7	11404.6	12425.7	13975.2	14676.9	14457.1	12565.0	12089.9	14222.3
55°	13502.8	13508.3	12969.1	11978.0	13251.7	15165.6	15916.5	15756.7	13460.5	12950.0	14786.1
57.5°	14081.7	14102.2	13704.9	12648.3	14040.7	16028.4	16842.0	16780.6	14671.4	13906.9	15318.5
59°	14156.8	14197.7	14053.0	13120.6	14509.0	16293.2	17158.8	17218.8	15319.9	14537.6	15606.6
60°	14020.2	14088.5	14154.0	13388.2	14783.4	16388.8	17177.9	17295.3	15807.2	14966.3	15737.6
62.5°	13425.0	13532.9	13861.9	14211.4	15126.0	16091.2	16567.6	16813.4	16410.6	16092.6	15749.9
65°	12645.5	12701.5	13176.6	14357.4	14461.2	14701.5	14848.9	15164.3	15685.7	16526.7	15186.1
67.5°	11367.7	11532.9	12114.5	13509.7	12499.5	12215.5	12178.6	11864.6	13218.9	15491.9	13796.4
70°	9391.0	9464.7	10181.4	11075.6	9433.3	8996.4	9171.2	9053.8	10246.9	13336.3	11104.3
72.5°	7101.6	7268.1	7968.5	8828.5	6419.0	5852.5	6334.4	6290.7	7696.8	10717.9	7628.5
75°	5052.5	5160.3	6053.1	6909.1	4495.5	3808.8	3982.2	4144.6	5373.3	8462.7	4507.8
77.5°	3471.6	3564.4	4234.7	4569.2	3279.1	3141.2	2873.7	3030.7	3520.8	5021.1	2453.2
80°	2094.2	2090.1	2531.0	2612.9	2283.9	2652.5	2225.2	2498.3	2128.3	2148.8	950.2
82.5°	1359.7	1346.1	1548.1	1687.3	1271.0	1336.5	896.9	1292.8	1387.0	599.3	300.3
85°	608.9	634.8	744.0	981.6	557.0	296.2	182.9	397.3	591.1	301.7	0.0
87.5°	62.8	49.1	131.1	238.9	76.4	8.2	27.3	13.7	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°	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4
2.5°	6498.2	6419.0	6182.8	5961.7	5771.9	5539.8	5389.7	5153.5	5010.2	4966.5	4973.3
5°	6237.4	6009.5	5560.3	5201.3	4801.3	4573.3	4226.6	3893.5	3713.2	3646.4	3616.3
7.5°	5691.4	5447.0	4905.0	4341.2	3912.6	3512.6	3254.6	2961.0	2760.4	2595.2	2566.5
10°	5285.9	4965.1	4293.4	3687.3	3348.7	3048.4	2790.4	2496.9	2260.7	2072.3	2020.4
12.5°	5042.9	4683.9	3934.4	3426.6	3105.8	2797.2	2461.4	2121.5	1879.8	1676.4	1582.2
15°	4999.2	4582.9	3833.4	3239.5	2843.6	2470.9	2024.5	1657.3	1408.9	1216.4	1157.7
17.5°	5262.7	4764.4	3818.4	3044.3	2501.0	1972.7	1508.5	1204.1	924.2	816.4	774.0
20°	5732.3	5085.2	3817.0	2817.7	2148.8	1519.4	1059.4	785.0	671.7	619.8	595.2
22.5°	6372.6	5522.1	3889.4	2622.5	1782.9	1120.8	756.3	625.2	559.7	517.4	507.8
25°	7154.8	6169.2	4066.8	2490.1	1503.0	879.2	623.9	535.1	480.5	461.4	453.2
27.5°	7849.7	6789.0	4262.0	2353.5	1302.4	778.1	578.8	490.1	446.4	431.4	419.1
30°	8449.0	7351.4	4356.2	2173.3	1141.3	712.6	587.0	524.2	466.9	421.8	401.4
32.5°	8948.7	7782.8	4417.7	2009.5	1004.8	582.9	464.2	405.5	379.5	363.1	349.5
35°	9573.9	8249.7	4380.8	1916.7	935.1	531.0	423.2	349.5	305.8	273.0	259.4
37.5°	10229.2	8716.6	4316.7	1840.2	903.7	492.8	402.7	331.7	284.0	249.8	232.1
40°	10907.7	9149.3	4241.6	1769.3	875.1	468.3	390.4	316.7	268.9	232.1	213.0
42.5°	11528.8	9571.2	4211.5	1722.8	828.7	472.3	380.9	309.9	253.9	215.7	199.3
45°	12031.2	9971.2	4252.5	1698.3	778.1	465.5	383.6	301.7	241.6	204.8	188.4
47.5°	12567.7	10536.3	4384.9	1673.7	729.0	432.8	404.1	300.3	236.2	197.9	180.2
50°	13191.6	11259.9	4688.0	1613.6	668.9	397.3	430.0	299.0	229.3	189.8	172.0
52.5°	14023.0	12081.7	5000.6	1508.5	581.6	363.1	410.9	294.9	215.7	180.2	162.5
55°	14769.7	12947.2	5265.4	1384.3	471.0	314.0	370.0	277.1	192.5	163.8	147.4
57.5°	15078.2	13436.0	5257.3	1212.3	376.8	275.8	304.4	253.9	167.9	144.7	131.1
59°	14964.9	13374.5	5081.1	1085.3	344.0	255.3	252.6	251.2	157.0	131.1	120.1
60°	14805.2	13150.6	4891.4	1022.5	323.5	241.6	232.1	248.5	147.4	122.9	111.9
62.5°	14193.6	12222.3	4262.0	916.0	296.2	204.8	185.7	210.2	131.1	106.5	96.9
65°	13307.6	10795.7	3608.1	886.0	288.0	169.3	154.3	150.2	111.9	90.1	81.9
67.5°	11579.3	9135.7	2922.8	865.5	290.8	142.0	135.2	113.3	92.8	75.1	69.6
70°	9270.8	7123.4	2393.1	842.3	293.5	116.0	113.3	90.1	75.1	62.8	57.3
72.5°	5632.7	4222.5	1883.9	731.7	285.3	92.8	101.0	68.3	54.6	45.1	42.3
75°	3482.5	2890.1	1168.6	569.3	188.4	68.3	71.0	42.3	36.9	28.7	28.7
77.5°	2017.7	1825.2	417.7	204.8	83.3	41.0	31.4	21.8	20.5	12.3	12.3
80°	836.8	670.3	144.7	69.6	45.1	19.1	6.8	1.4	0.0	0.0	0.0
82.5°	244.4	217.1	39.6	31.4	13.7	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°	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4
2.5°	4857.3	4812.2	4791.7	4861.4	4797.2	4879.1	4816.3	4843.6	4924.1	4959.6	5051.1
5°	3635.4	3589.0	3567.2	3672.3	3666.8	3718.7	3713.2	3761.0	3802.0	3710.5	3804.7
7.5°	2532.4	2501.0	2552.9	2634.8	2722.1	2693.5	2693.5	2629.3	2651.2	2637.5	2633.4
10°	1926.2	1818.4	1791.1	1788.4	1821.1	1828.0	1791.1	1702.4	1735.1	1744.7	1802.0
12.5°	1515.3	1432.1	1305.1	1247.8	1232.7	1245.0	1123.5	1045.7	1082.6	1060.7	1116.7
15°	1086.7	1018.4	943.3	879.2	861.4	836.8	704.4	611.6	600.7	604.8	614.3
17.5°	775.4	729.0	729.0	660.7	623.9	550.2	483.3	442.3	438.2	442.3	449.1
20°	572.0	547.4	544.7	527.0	486.0	436.9	390.4	382.2	379.5	386.3	389.1
22.5°	492.8	466.9	445.0	443.7	405.5	364.5	342.7	331.7	333.1	335.8	342.7
25°	440.9	413.6	390.4	376.8	349.5	320.8	300.3	294.9	294.9	299.0	300.3
27.5°	404.1	370.0	349.5	330.4	305.8	281.2	263.5	259.4	256.7	259.4	266.2
30°	378.2	344.0	318.1	289.4	270.3	247.1	232.1	226.6	225.3	226.6	232.1
32.5°	323.5	303.1	282.6	256.7	233.4	218.4	202.0	192.5	192.5	195.2	200.7
35°	244.4	233.4	232.1	225.3	206.1	189.8	170.6	161.1	161.1	166.6	169.3
37.5°	215.7	195.2	192.5	189.8	181.6	159.7	142.0	133.8	132.4	136.5	142.0
40°	196.6	173.4	161.1	158.4	159.7	135.2	116.0	107.8	107.8	109.2	114.7
42.5°	181.6	154.3	132.4	129.7	135.2	113.3	94.2	86.0	86.0	86.0	92.8
45°	169.3	137.9	111.9	98.3	106.5	92.8	76.4	68.3	65.5	68.3	71.0
47.5°	161.1	125.6	98.3	79.2	79.2	73.7	61.4	51.9	49.1	50.5	54.6
50°	154.3	114.7	83.3	64.2	57.3	58.7	46.4	39.6	36.9	36.9	41.0
52.5°	143.3	103.8	72.4	54.6	43.7	39.6	34.1	28.7	27.3	28.7	31.4
55°	129.7	94.2	62.8	45.1	34.1	27.3	24.6	20.5	19.1	20.5	24.6
57.5°	114.7	79.2	50.5	35.5	23.2	17.7	16.4	13.7	10.9	12.3	15.0
59°	105.1	71.0	43.7	28.7	17.7	12.3	12.3	9.6	6.8	8.2	12.3
60°	101.0	65.5	36.9	24.6	15.0	9.6	9.6	6.8	4.1	5.5	9.6
62.5°	86.0	54.6	28.7	15.0	6.8	1.4	4.1	1.4	0.0	1.4	4.1
65°	72.4	43.7	19.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	60.1	32.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	47.8	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	32.8	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.2	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°	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4	6005.4
2.5°	5056.6	5251.8	5371.9	5598.5	5830.6	6009.5	6233.3	6434.0	6517.3	6561.0
5°	3900.3	4171.9	4402.7	4748.0	5068.9	5459.3	5855.2	6322.1	6500.9	6547.3
7.5°	2737.2	3014.3	3255.9	3655.9	4113.2	4636.1	5228.6	5821.1	6081.8	6155.5
10°	1976.8	2273.0	2567.9	2967.9	3395.2	3961.7	4578.8	5311.9	5612.2	5669.5
12.5°	1247.8	1565.8	2045.0	2539.2	2991.1	3447.0	4092.8	4890.0	5221.8	5326.9
15°	723.5	961.1	1322.8	1967.2	2541.9	3145.3	3849.8	4731.7	5103.0	5210.8
17.5°	484.6	566.5	815.0	1307.8	2066.9	2866.8	3788.3	4861.4	5272.3	5410.1
20°	408.2	445.0	532.4	797.3	1591.8	2618.4	3804.7	5213.6	5752.8	5924.8
22.5°	359.0	393.2	449.1	573.4	1111.2	2309.9	3882.5	5717.3	6413.5	6633.3
25°	316.7	350.8	400.0	475.1	746.7	1953.6	4053.2	6454.5	7288.6	7530.2
27.5°	281.2	312.6	354.9	419.1	574.7	1556.3	4204.7	7172.6	8087.2	8283.8
30°	248.5	274.4	315.4	364.5	477.8	1200.0	4281.2	7800.6	8668.8	8887.2
32.5°	215.7	240.3	279.9	319.4	393.2	914.7	4227.9	8262.0	9234.0	9373.2
35°	184.3	210.2	243.0	279.9	339.9	738.6	3961.7	8780.7	9819.6	9928.8
37.5°	158.4	180.2	214.3	243.0	307.2	591.1	3639.5	9247.6	10476.3	10633.3
40°	133.8	155.6	189.8	215.7	282.6	465.5	3348.7	9766.4	11168.4	11362.3
42.5°	109.2	135.2	165.2	207.5	243.0	354.9	2996.5	10186.9	11688.5	11931.5
45°	87.4	116.0	148.8	206.1	211.6	270.3	2656.6	10514.5	12148.6	12367.0
47.5°	69.6	98.3	143.3	192.5	173.4	214.3	2462.8	10857.2	12530.8	12705.6
50°	56.0	81.9	150.2	169.3	144.7	181.6	2457.3	11239.4	12728.8	12844.8
52.5°	45.1	66.9	127.0	129.7	122.9	159.7	2604.7	11669.4	12930.8	13026.4
55°	38.2	56.0	83.3	95.6	110.6	144.7	2715.3	12331.5	13412.7	13502.8
57.5°	30.0	47.8	64.2	76.4	98.3	132.4	2730.3	12842.1	14023.0	14081.7
59°	25.9	41.0	57.3	68.3	90.1	124.2	2668.9	12873.5	14062.6	14156.8
60°	21.8	36.9	50.5	64.2	83.3	117.4	2602.0	12645.5	13915.1	14020.2
62.5°	16.4	28.7	36.9	51.9	68.3	101.0	2285.3	11849.6	13351.3	13425.0
65°	10.9	20.5	27.3	38.2	53.2	87.4	1862.1	10817.6	12480.3	12645.5
67.5°	6.8	15.0	21.8	28.7	43.7	73.7	1326.9	9276.3	11261.2	11367.7
70°	4.1	9.6	16.4	23.2	34.1	58.7	787.7	7332.3	9369.1	9391.0
72.5°	2.7	6.8	10.9	16.4	27.3	53.2	382.2	4779.4	6840.8	7101.6
75°	1.4	4.1	6.8	12.3	21.8	43.7	182.9	3193.1	4977.4	5052.5
77.5°	0.0	1.4	4.1	8.2	16.4	34.1	106.5	2096.9	3393.8	3471.6
80°	0.0	0.0	2.7	6.8	12.3	21.8	64.2	1236.8	2055.9	2094.2
82.5°	0.0	0.0	1.4	5.5	8.2	16.4	32.8	543.3	1346.1	1359.7
85°	0.0	0.0	1.4	5.5	6.8	10.9	12.3	73.7	597.9	608.9
87.5°	0.0	0.0	1.4	6.8	6.8	6.8	6.8	4.1	50.5	62.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)