

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: P453276

Luminaire Tested: **GALN-SA4B-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453276
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-SA4B-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 16166 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

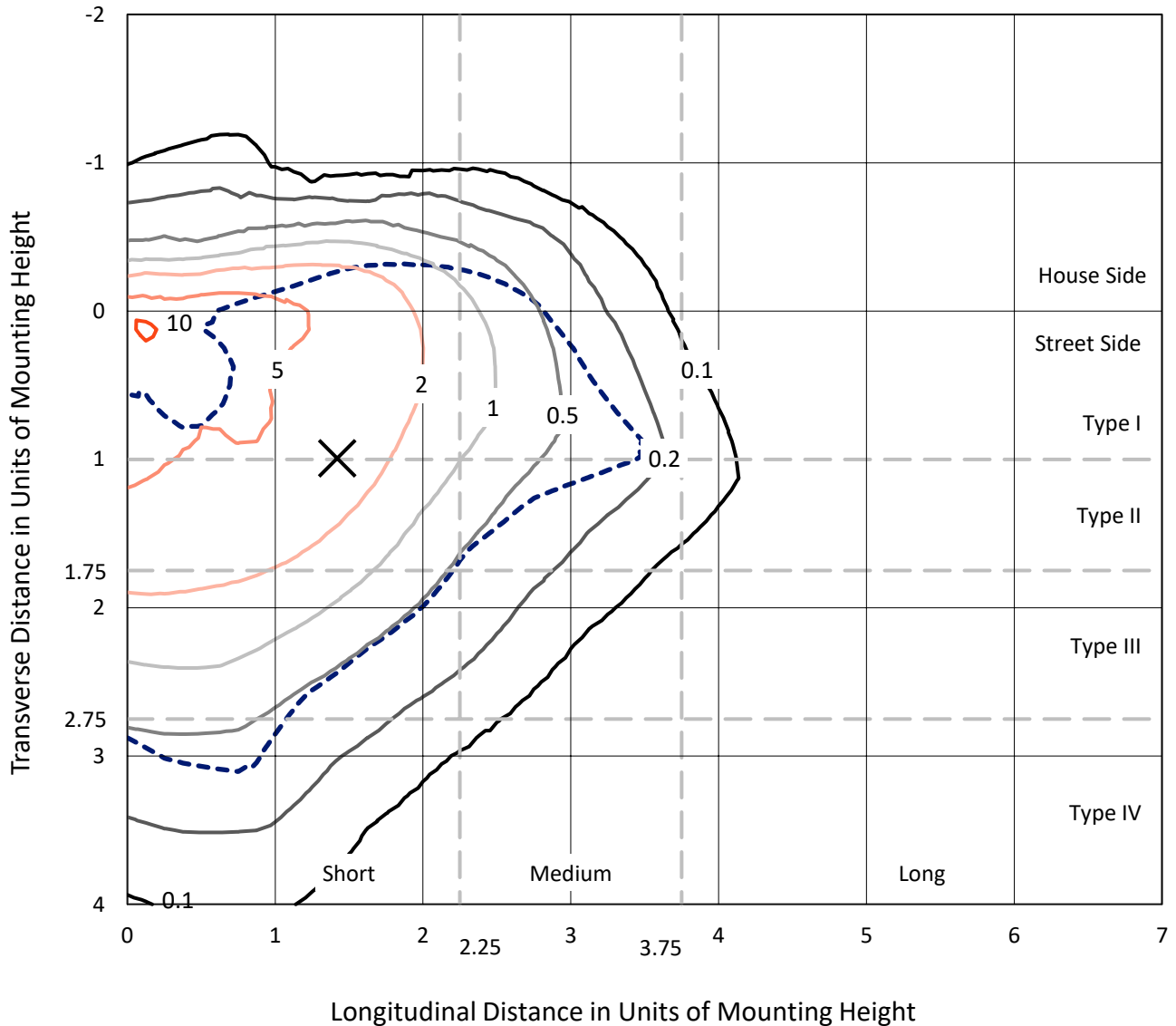
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

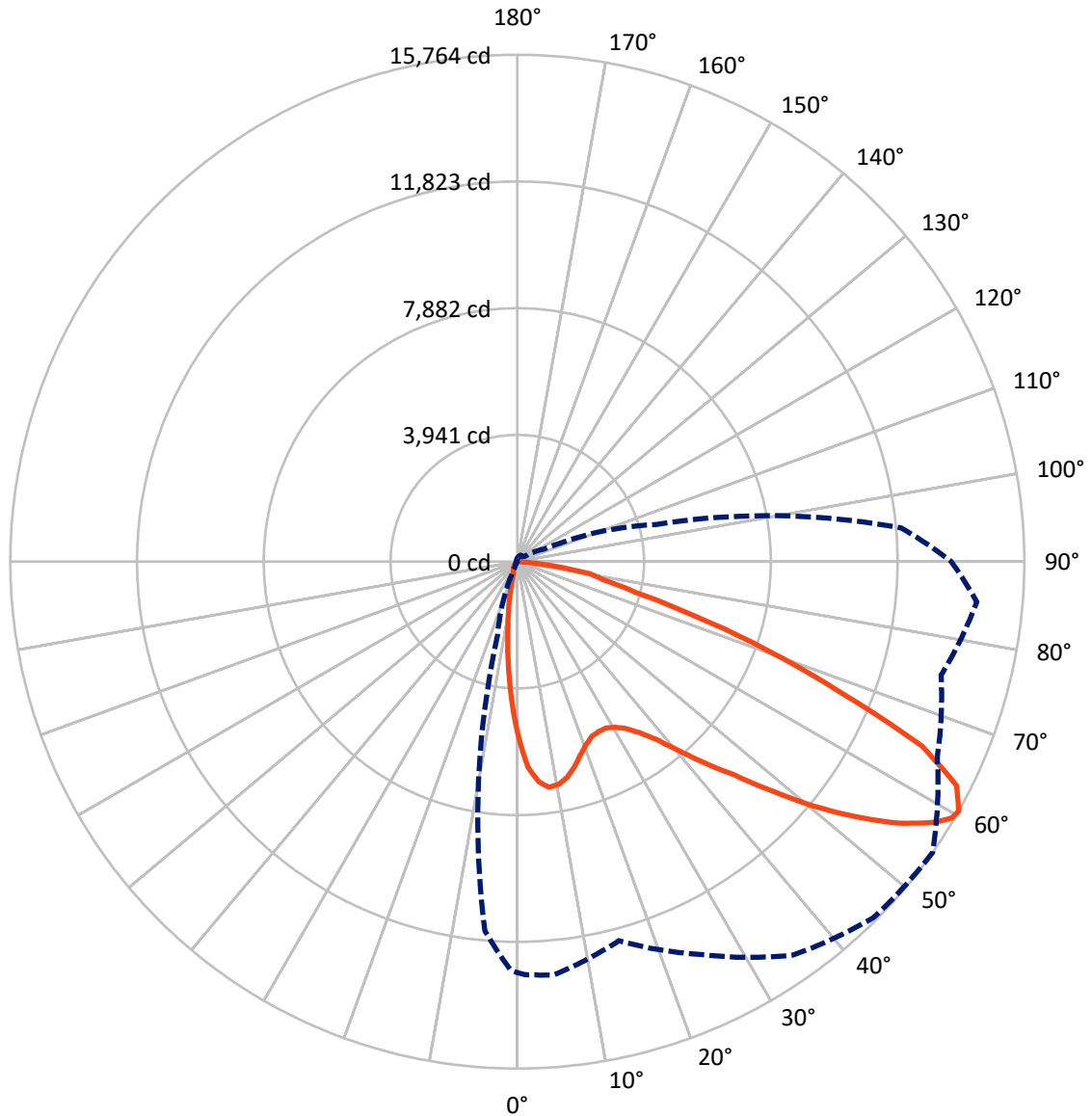
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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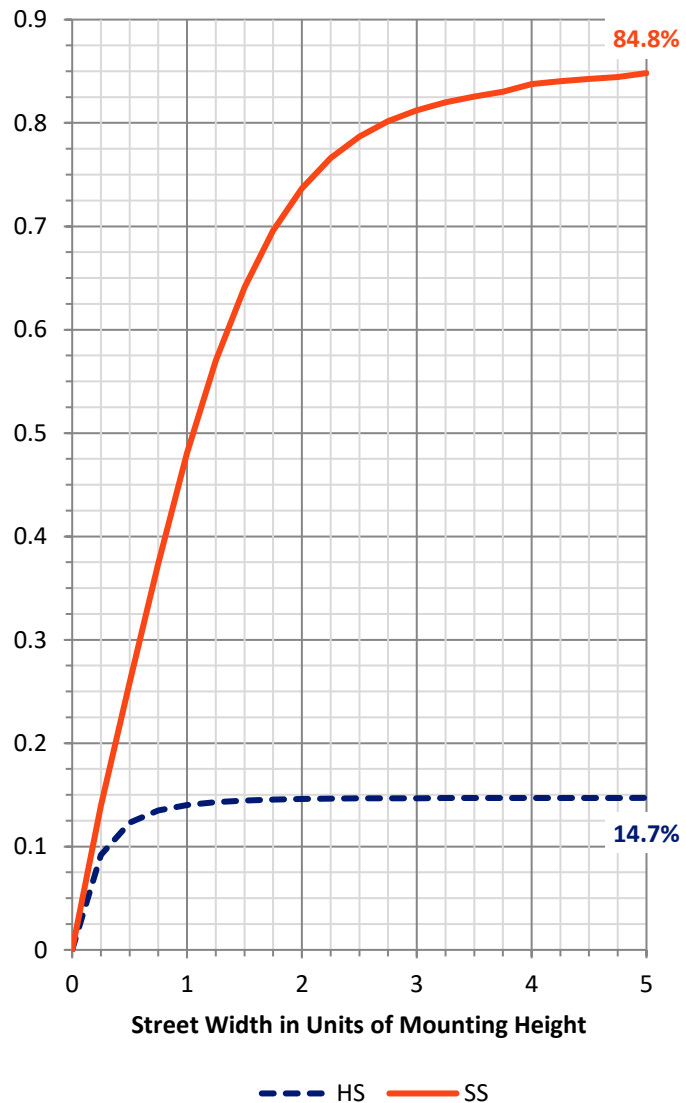
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2399.2	0.0	2399.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13766.8	0.0	13766.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	16166.0	0.0	16166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.3	2.5
10°-20°	798.2	4.9
20°-30°	1181.5	7.3
30°-40°	1761.1	10.9
40°-50°	2579.2	16.0
50°-60°	3723.6	23.0
60°-70°	3917.0	24.2
70°-80°	1611.3	10.0
80°-90°	188.7	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°	16166.0	100.0
0°-180°	16166.0	100.0



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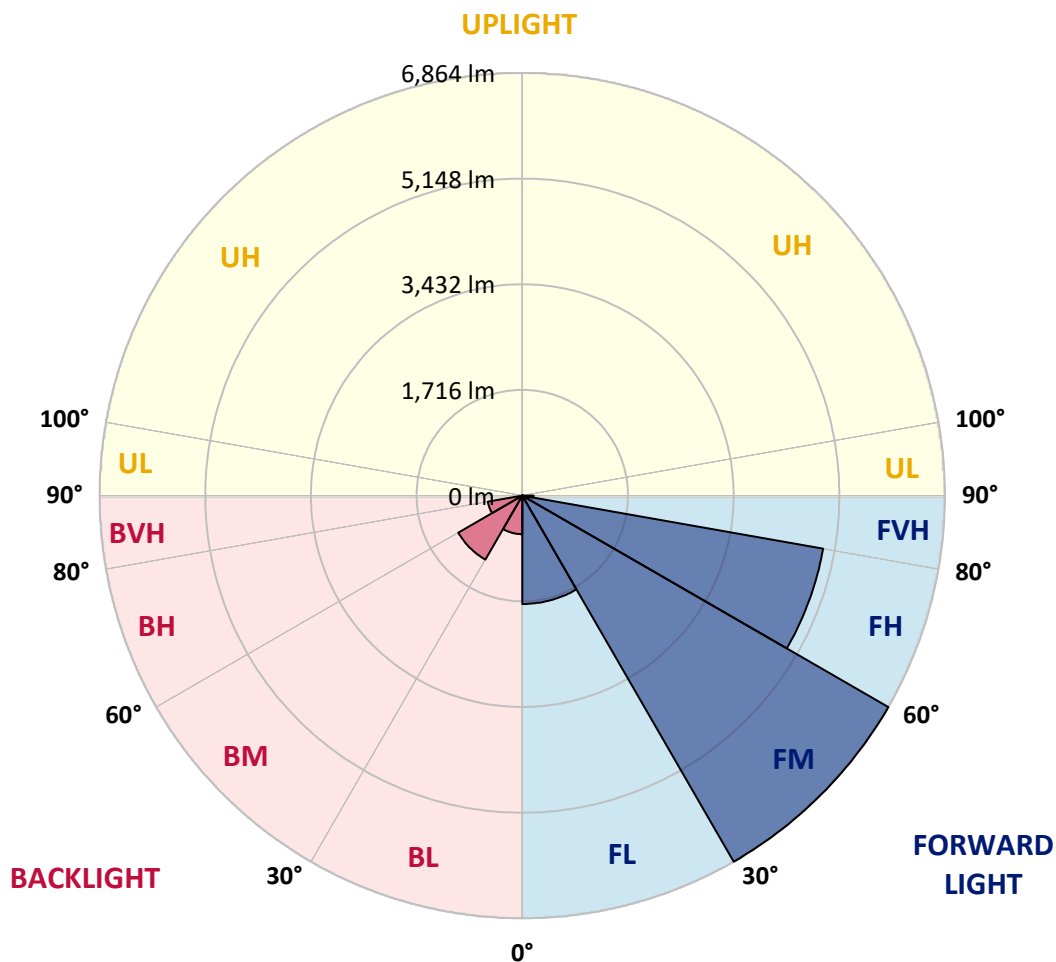
CATALOG NUMBER: GALN-SA4B-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1759.1	10.9			
FM	(30°-60°)	6864.1	42.5			
FH	(60°-80°)	4960.5	30.7			G2/5000
FVH	(80°-90°)	183.2	1.1			G2/225
BL	(0°-30°)	626.0	3.9	B2/1000		
BM	(30°-60°)	1199.8	7.4	B2/2500		
BH	(60°-80°)	567.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8
2.5°	5980.2	5970.2	6058.6	6202.9	6348.5	6424.4	6409.5	6403.3	6282.6	6194.2	6008.8
5°	5967.8	6018.8	6176.8	6567.5	6863.7	7006.8	7049.1	6871.1	6636.0	6295.0	5874.4
7.5°	5610.6	5674.1	5931.7	6542.6	7069.0	7380.1	7368.9	7083.9	6598.6	6071.0	5471.3
10°	5167.7	5242.3	5544.7	6286.3	6969.4	7380.1	7402.5	7041.6	6438.1	5761.2	5130.3
12.5°	4855.3	4943.7	5278.4	6047.4	6713.1	7117.5	7143.6	6882.3	6317.4	5641.7	4944.9
15°	4749.6	4832.9	5172.6	5926.7	6440.6	6658.4	6652.1	6624.8	6270.1	5670.4	4954.9
17.5°	4931.2	4999.7	5382.9	5981.4	6185.5	6163.1	6195.5	6327.4	6280.1	5910.5	5268.5
20°	5400.3	5470.0	5881.9	6149.4	5990.2	5848.3	5863.2	6083.5	6372.2	6362.2	5758.7
22.5°	6046.1	6164.4	6537.7	6475.4	5964.0	5652.9	5621.8	5908.0	6528.9	6882.3	6420.7
25°	6863.7	6983.1	7274.3	6995.6	6092.2	5606.9	5578.3	5854.5	6719.3	7390.0	7166.0
27.5°	7550.5	7641.4	7931.3	7502.0	6281.3	5626.8	5579.5	5862.0	6873.6	7821.8	7794.4
30°	8100.5	8167.7	8338.2	7738.4	6444.3	5713.9	5659.2	5971.5	6942.1	8032.1	8303.3
32.5°	8543.5	8656.7	8710.2	7991.0	6678.3	5878.2	5784.8	6181.8	7108.8	8292.1	8837.2
35°	9049.9	9180.6	9112.2	8232.4	6986.9	6134.5	6020.0	6522.7	7361.4	8532.3	9456.8
37.5°	9692.0	9842.6	9575.0	8486.3	7312.9	6520.2	6466.7	7001.8	7744.6	8875.7	10121.3
40°	10356.5	10443.6	10024.2	8794.9	7713.5	7081.4	7132.4	7713.5	8246.1	9287.6	10828.1
42.5°	10875.4	10957.5	10485.9	9053.7	8122.9	7747.1	7959.9	8572.1	8821.0	9709.4	11355.7
45°	11272.3	11342.0	10805.7	9336.1	8675.4	8711.5	9113.4	9456.8	9397.1	9967.0	11762.6
47.5°	11580.9	11640.6	11052.0	9639.7	9502.9	9891.1	10505.8	10651.4	9994.4	10245.7	12130.9
50°	11707.8	11725.2	11129.2	10026.7	10442.3	11394.2	12035.1	11946.7	10678.8	10555.6	12522.8
52.5°	11873.3	11869.6	11349.4	10395.0	11325.8	12738.1	13377.7	13177.3	11452.7	11019.7	12963.3
55°	12307.6	12312.5	11821.0	10917.7	12078.6	13823.1	14507.5	14361.9	12269.0	11803.6	13477.2
57.5°	12835.2	12853.8	12491.7	11528.6	12797.8	14609.6	15351.2	15295.2	13372.7	12675.9	13962.5
59°	12903.6	12940.9	12809.0	11959.2	13224.6	14851.0	15639.9	15694.6	13963.8	13250.8	14225.1
60°	12779.2	12841.4	12901.1	12203.0	13474.7	14938.1	15657.3	15764.3	14408.0	13641.5	14344.5
62.5°	12236.6	12334.9	12634.8	12953.4	13787.1	14666.8	15101.1	15325.0	14958.0	14668.0	14355.7
65°	11526.1	11577.2	12010.2	13086.5	13181.1	13400.1	13534.5	13821.9	14297.2	15063.7	13841.8
67.5°	10361.5	10512.0	11042.1	12313.8	11393.0	11134.2	11100.6	10814.4	12048.7	14120.5	12575.1
70°	8559.7	8626.9	9280.1	10095.2	8598.2	8200.1	8359.3	8252.3	9339.9	12155.8	10121.3
72.5°	6473.0	6624.8	7263.1	8047.0	5850.8	5334.4	5773.6	5733.8	7015.5	9769.2	6953.3
75°	4605.2	4703.5	5517.3	6297.5	4097.5	3471.7	3629.7	3777.8	4897.6	7713.5	4108.7
77.5°	3164.3	3248.9	3859.9	4164.7	2988.9	2863.2	2619.3	2762.4	3209.1	4576.6	2236.0
80°	1908.8	1905.1	2307.0	2381.6	2081.7	2417.7	2028.2	2277.1	1939.9	1958.6	866.0
82.5°	1239.3	1226.9	1411.1	1538.0	1158.5	1218.2	817.5	1178.4	1264.2	546.3	273.8
85°	555.0	578.6	678.2	894.7	507.7	270.0	166.7	362.1	538.8	275.0	0.0
87.5°	57.2	44.8	119.5	217.8	69.7	7.5	24.9	12.4	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°	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8
2.5°	5923.0	5850.8	5635.5	5433.9	5261.0	5049.4	4912.6	4697.3	4566.7	4526.8	4533.1
5°	5685.3	5477.5	5068.1	4740.9	4376.3	4168.5	3852.4	3548.8	3384.5	3323.6	3296.2
7.5°	5187.6	4964.8	4470.8	3956.9	3566.2	3201.6	2966.5	2698.9	2516.0	2365.5	2339.3
10°	4818.0	4525.6	3913.4	3360.9	3052.3	2778.6	2543.4	2275.9	2060.6	1888.9	1841.6
12.5°	4596.5	4269.3	3586.1	3123.2	2830.8	2549.6	2243.5	1933.7	1713.4	1528.0	1442.2
15°	4556.7	4177.2	3494.1	2952.8	2591.9	2252.2	1845.3	1510.6	1284.1	1108.7	1055.2
17.5°	4796.9	4342.7	3480.4	2774.8	2279.6	1798.0	1375.0	1097.5	842.4	744.1	705.5
20°	5224.9	4635.1	3479.1	2568.3	1958.6	1384.9	965.6	715.5	612.2	564.9	542.5
22.5°	5808.5	5033.3	3545.1	2390.3	1625.1	1021.6	689.4	569.9	510.2	471.6	462.9
25°	6521.5	5623.1	3706.8	2269.6	1370.0	801.3	568.7	487.8	438.0	420.6	413.1
27.5°	7154.8	6188.0	3884.8	2145.2	1187.1	709.3	527.6	446.7	406.9	393.2	382.0
30°	7701.1	6700.7	3970.6	1981.0	1040.3	649.5	535.1	477.8	425.6	384.5	365.8
32.5°	8156.5	7093.9	4026.6	1831.6	915.8	531.3	423.1	369.6	345.9	331.0	318.5
35°	8726.4	7519.4	3993.0	1747.0	852.4	484.0	385.7	318.5	278.7	248.9	236.4
37.5°	9323.7	7945.0	3934.5	1677.3	823.7	449.2	367.1	302.4	258.8	227.7	211.5
40°	9942.1	8339.4	3866.1	1612.6	797.6	426.8	355.9	288.7	245.1	211.5	194.1
42.5°	10508.3	8723.9	3838.7	1570.3	755.3	430.5	347.2	282.5	231.4	196.6	181.7
45°	10966.2	9088.5	3876.1	1547.9	709.3	424.3	349.7	275.0	220.2	186.6	171.7
47.5°	11455.2	9603.7	3996.8	1525.5	664.5	394.4	368.3	273.8	215.3	180.4	164.3
50°	12023.9	10263.1	4273.0	1470.8	609.7	362.1	392.0	272.5	209.0	173.0	156.8
52.5°	12781.7	11012.2	4557.9	1375.0	530.1	331.0	374.5	268.8	196.6	164.3	148.1
55°	13462.3	11801.1	4799.3	1261.7	429.3	286.2	337.2	252.6	175.4	149.3	134.4
57.5°	13743.5	12246.6	4791.9	1105.0	343.4	251.4	277.5	231.4	153.1	131.9	119.5
59°	13640.2	12190.6	4631.4	989.2	313.6	232.7	230.2	229.0	143.1	119.5	109.5
60°	13494.6	11986.5	4458.4	932.0	294.9	220.2	211.5	226.5	134.4	112.0	102.0
62.5°	12937.2	11140.4	3884.8	834.9	270.0	186.6	169.2	191.6	119.5	97.1	88.3
65°	12129.6	9840.1	3288.7	807.6	262.6	154.3	140.6	136.9	102.0	82.1	74.7
67.5°	10554.3	8327.0	2664.1	788.9	265.0	129.4	123.2	103.3	84.6	68.4	63.5
70°	8450.2	6492.9	2181.3	767.7	267.5	105.8	103.3	82.1	68.4	57.2	52.3
72.5°	5134.1	3848.7	1717.2	667.0	260.1	84.6	92.1	62.2	49.8	41.1	38.6
75°	3174.3	2634.2	1065.1	518.9	171.7	62.2	64.7	38.6	33.6	26.1	26.1
77.5°	1839.1	1663.7	380.8	186.6	75.9	37.3	28.6	19.9	18.7	11.2	11.2
80°	762.8	611.0	131.9	63.5	41.1	17.4	6.2	1.2	0.0	0.0	0.0
82.5°	222.7	197.8	36.1	28.6	12.4	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°	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8
2.5°	4427.3	4386.2	4367.6	4431.0	4372.5	4447.2	4390.0	4414.8	4488.3	4520.6	4604.0
5°	3313.6	3271.3	3251.4	3347.2	3342.2	3389.5	3384.5	3428.1	3465.4	3382.1	3467.9
7.5°	2308.2	2279.6	2326.9	2401.5	2481.2	2455.0	2455.0	2396.6	2416.5	2404.0	2400.3
10°	1755.7	1657.4	1632.5	1630.1	1659.9	1666.1	1632.5	1551.7	1581.5	1590.2	1642.5
12.5°	1381.2	1305.3	1189.6	1137.3	1123.6	1134.8	1024.1	953.1	986.7	966.8	1017.9
15°	990.5	928.3	859.8	801.3	785.2	762.8	642.1	557.5	547.5	551.2	559.9
17.5°	706.8	664.5	664.5	602.3	568.7	501.5	440.5	403.2	399.4	403.2	409.4
20°	521.4	499.0	496.5	480.3	443.0	398.2	355.9	348.4	345.9	352.1	354.6
22.5°	449.2	425.6	405.6	404.4	369.6	332.2	312.3	302.4	303.6	306.1	312.3
25°	401.9	377.0	355.9	343.4	318.5	292.4	273.8	268.8	268.8	272.5	273.8
27.5°	368.3	337.2	318.5	301.1	278.7	256.3	240.2	236.4	233.9	236.4	242.6
30°	344.7	313.6	289.9	263.8	246.4	225.2	211.5	206.6	205.3	206.6	211.5
32.5°	294.9	276.2	257.6	233.9	212.8	199.1	184.2	175.4	175.4	177.9	182.9
35°	222.7	212.8	211.5	205.3	187.9	173.0	155.5	146.8	146.8	151.8	154.3
37.5°	196.6	177.9	175.4	173.0	165.5	145.6	129.4	121.9	120.7	124.4	129.4
40°	179.2	158.0	146.8	144.3	145.6	123.2	105.8	98.3	98.3	99.5	104.5
42.5°	165.5	140.6	120.7	118.2	123.2	103.3	85.9	78.4	78.4	78.4	84.6
45°	154.3	125.7	102.0	89.6	97.1	84.6	69.7	62.2	59.7	62.2	64.7
47.5°	146.8	114.5	89.6	72.2	72.2	67.2	56.0	47.3	44.8	46.0	49.8
50°	140.6	104.5	75.9	58.5	52.3	53.5	42.3	36.1	33.6	33.6	37.3
52.5°	130.7	94.6	65.9	49.8	39.8	36.1	31.1	26.1	24.9	26.1	28.6
55°	118.2	85.9	57.2	41.1	31.1	24.9	22.4	18.7	17.4	18.7	22.4
57.5°	104.5	72.2	46.0	32.4	21.2	16.2	14.9	12.4	10.0	11.2	13.7
59°	95.8	64.7	39.8	26.1	16.2	11.2	11.2	8.7	6.2	7.5	11.2
60°	92.1	59.7	33.6	22.4	13.7	8.7	8.7	6.2	3.7	5.0	8.7
62.5°	78.4	49.8	26.1	13.7	6.2	1.2	3.7	1.2	0.0	1.2	3.7
65°	65.9	39.8	17.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	54.8	29.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	43.6	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	29.9	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.5	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°	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8
2.5°	4609.0	4786.9	4896.4	5103.0	5314.5	5477.5	5681.6	5864.5	5940.4	5980.2
5°	3555.0	3802.6	4012.9	4327.7	4620.2	4976.0	5336.9	5762.4	5925.5	5967.8
7.5°	2494.9	2747.5	2967.7	3332.3	3749.1	4225.7	4765.7	5305.8	5543.4	5610.6
10°	1801.8	2071.8	2340.6	2705.2	3094.6	3611.0	4173.4	4841.6	5115.4	5167.7
12.5°	1137.3	1427.2	1864.0	2314.4	2726.3	3141.9	3730.5	4457.2	4759.5	4855.3
15°	659.5	876.0	1205.7	1793.1	2316.9	2866.9	3509.0	4312.8	4651.3	4749.6
17.5°	441.7	516.4	742.9	1192.1	1883.9	2613.1	3453.0	4431.0	4805.6	4931.2
20°	372.1	405.6	485.3	726.7	1450.9	2386.6	3467.9	4752.1	5243.6	5400.3
22.5°	327.3	358.4	409.4	522.6	1012.9	2105.4	3538.8	5211.2	5845.8	6046.1
25°	288.7	319.8	364.6	433.0	680.6	1780.6	3694.4	5883.1	6643.4	6863.7
27.5°	256.3	284.9	323.5	382.0	523.9	1418.5	3832.5	6537.7	7371.4	7550.5
30°	226.5	250.1	287.4	332.2	435.5	1093.8	3902.2	7110.0	7901.4	8100.5
32.5°	196.6	219.0	255.1	291.2	358.4	833.7	3853.7	7530.6	8416.6	8543.5
35°	168.0	191.6	221.5	255.1	309.8	673.2	3611.0	8003.5	8950.4	9049.9
37.5°	144.3	164.3	195.4	221.5	280.0	538.8	3317.4	8429.0	9548.9	9692.0
40°	121.9	141.9	173.0	196.6	257.6	424.3	3052.3	8901.9	10179.8	10356.5
42.5°	99.5	123.2	150.6	189.1	221.5	323.5	2731.3	9285.1	10653.9	10875.4
45°	79.6	105.8	135.6	187.9	192.9	246.4	2421.4	9583.8	11073.2	11272.3
47.5°	63.5	89.6	130.7	175.4	158.0	195.4	2244.8	9896.1	11421.6	11580.9
50°	51.0	74.7	136.9	154.3	131.9	165.5	2239.8	10244.5	11602.0	11707.8
52.5°	41.1	61.0	115.7	118.2	112.0	145.6	2374.2	10636.4	11786.2	11873.3
55°	34.8	51.0	75.9	87.1	100.8	131.9	2475.0	11239.9	12225.4	12307.6
57.5°	27.4	43.6	58.5	69.7	89.6	120.7	2488.6	11705.3	12781.7	12835.2
59°	23.6	37.3	52.3	62.2	82.1	113.2	2432.6	11733.9	12817.7	12903.6
60°	19.9	33.6	46.0	58.5	75.9	107.0	2371.7	11526.1	12683.4	12779.2
62.5°	14.9	26.1	33.6	47.3	62.2	92.1	2083.0	10800.7	12169.4	12236.6
65°	10.0	18.7	24.9	34.8	48.5	79.6	1697.3	9860.0	11375.6	11526.1
67.5°	6.2	13.7	19.9	26.1	39.8	67.2	1209.5	8455.2	10264.4	10361.5
70°	3.7	8.7	14.9	21.2	31.1	53.5	718.0	6683.2	8539.8	8559.7
72.5°	2.5	6.2	10.0	14.9	24.9	48.5	348.4	4356.4	6235.3	6473.0
75°	1.2	3.7	6.2	11.2	19.9	39.8	166.7	2910.5	4536.8	4605.2
77.5°	0.0	1.2	3.7	7.5	14.9	31.1	97.1	1911.3	3093.4	3164.3
80°	0.0	0.0	2.5	6.2	11.2	19.9	58.5	1127.4	1873.9	1908.8
82.5°	0.0	0.0	1.2	5.0	7.5	14.9	29.9	495.2	1226.9	1239.3
85°	0.0	0.0	1.2	5.0	6.2	10.0	11.2	67.2	545.0	555.0
87.5°	0.0	0.0	1.2	6.2	6.2	6.2	6.2	3.7	46.0	57.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)