

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: P454146

Luminaire Tested: **GALN-SA5B-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454146
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-SA5B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 17115 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

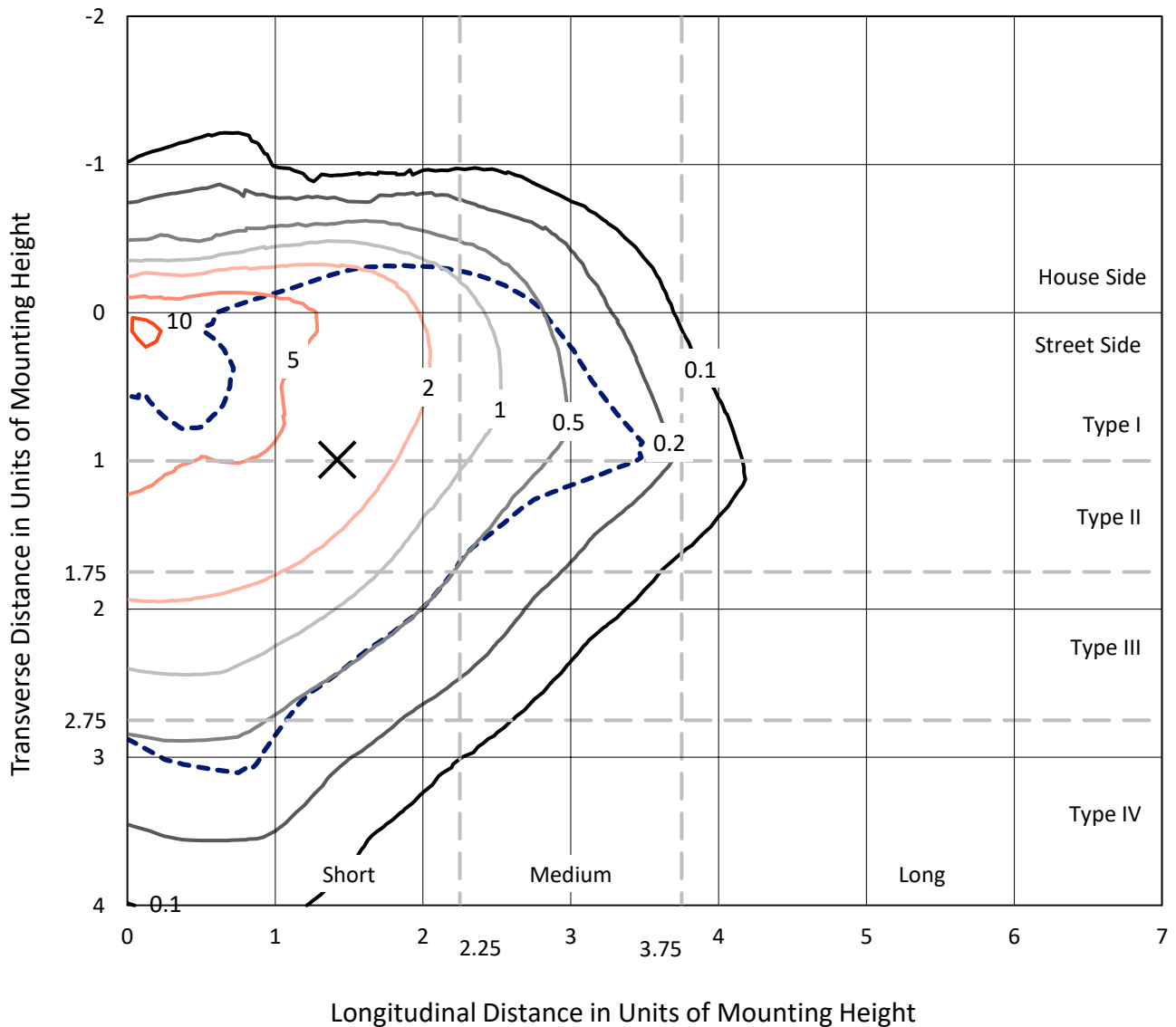
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

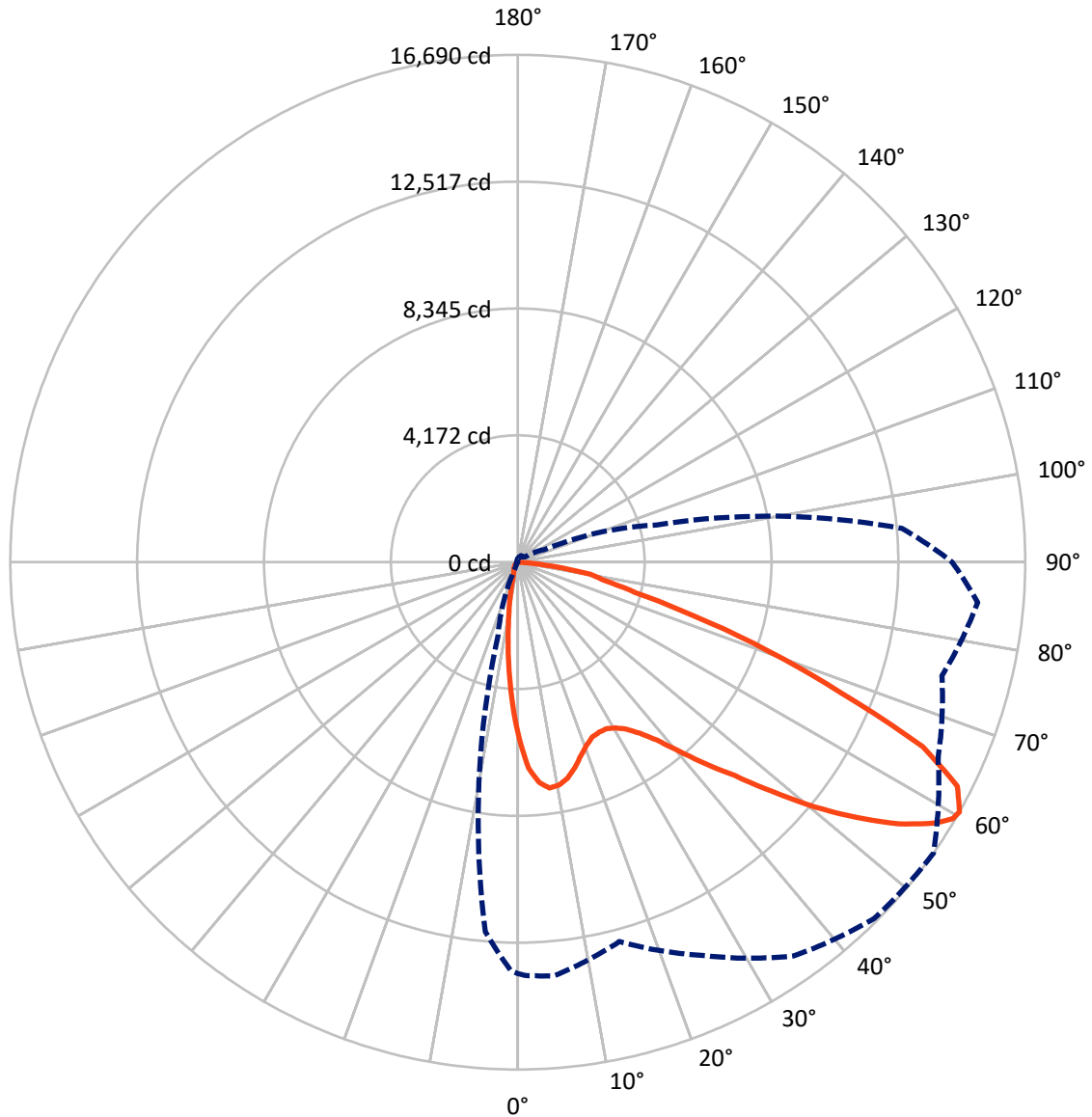
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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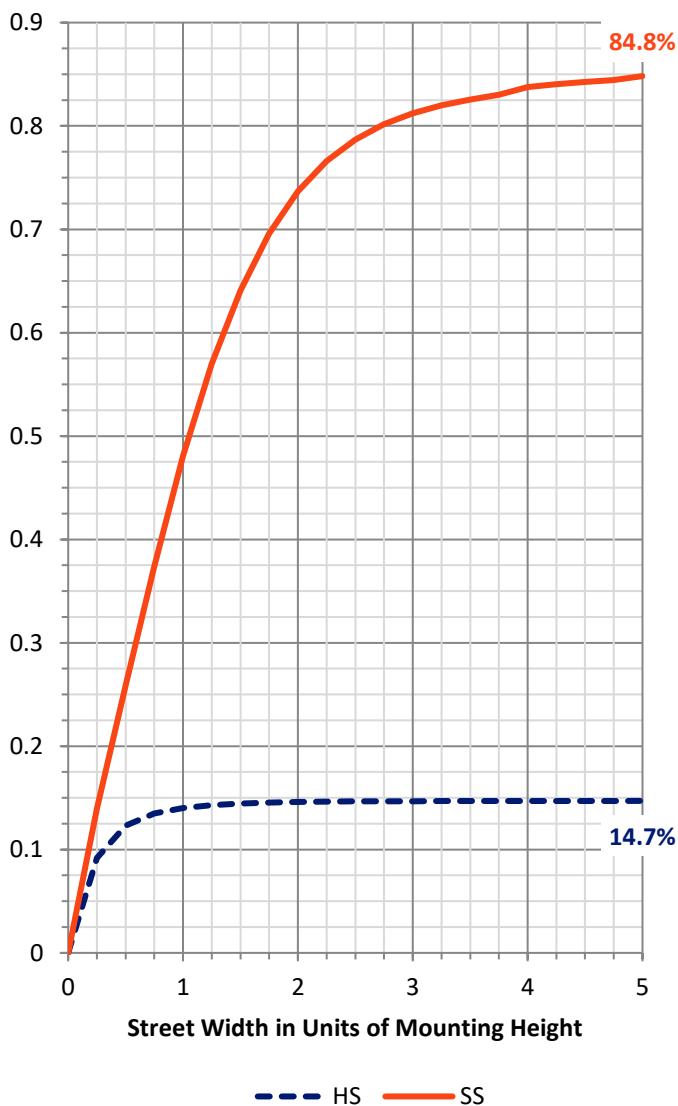
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2540.0	0.0	2540.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	14575.0	0.0	14575.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	17115.0	0.0	17115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.1	2.5
10°-20°	845.1	4.9
20°-30°	1250.9	7.3
30°-40°	1864.5	10.9
40°-50°	2730.6	16.0
50°-60°	3942.2	23.0
60°-70°	4147.0	24.2
70°-80°	1705.9	10.0
80°-90°	199.8	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°	17115.0	100.0
0°-180°	17115.0	100.0

Coefficient of Utilization



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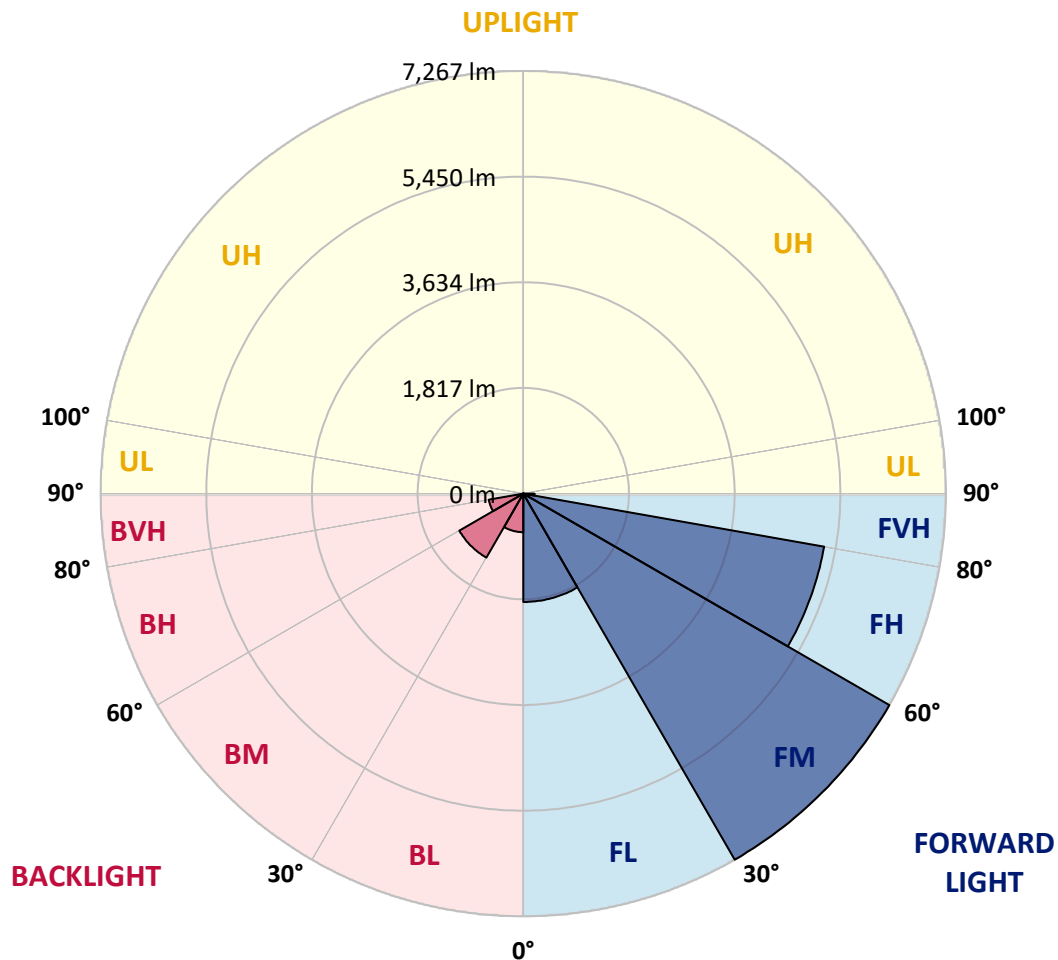
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1862.4	10.9			
FM	(30°-60°)	7267.1	42.5			
FH	(60°-80°)	5251.7	30.7			G3/7500
FVH	(80°-90°)	193.9	1.1			G2/225
BL	(0°-30°)	662.7	3.9	B2/1000		
BM	(30°-60°)	1270.2	7.4	B2/2500		
BH	(60°-80°)	601.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.9	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°	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1
2.5°	6331.3	6320.7	6414.3	6567.1	6721.2	6801.6	6785.8	6779.2	6651.4	6557.8	6361.6
5°	6318.1	6372.1	6539.4	6953.1	7266.6	7418.1	7462.9	7274.5	7025.5	6664.6	6219.3
7.5°	5940.0	6007.2	6279.9	6926.7	7484.0	7813.3	7801.4	7499.8	6986.0	6427.4	5792.5
10°	5471.0	5550.1	5870.2	6655.3	7378.6	7813.3	7837.0	7455.0	6816.1	6099.4	5431.5
12.5°	5140.4	5233.9	5588.3	6402.4	7107.2	7535.3	7563.0	7286.3	6688.3	5972.9	5235.2
15°	5028.4	5116.6	5476.3	6274.6	6818.7	7049.2	7042.6	7013.7	6638.2	6003.2	5245.8
17.5°	5220.7	5293.2	5698.9	6332.6	6548.6	6524.9	6559.2	6698.8	6648.7	6257.5	5577.7
20°	5717.4	5791.1	6227.2	6510.4	6341.8	6191.6	6207.4	6440.6	6746.2	6735.7	6096.8
22.5°	6401.1	6526.2	6921.4	6855.6	6314.1	5984.8	5951.9	6254.9	6912.2	7286.3	6797.6
25°	7266.6	7393.1	7701.3	7406.2	6449.8	5936.0	5905.8	6198.2	7113.8	7823.8	7586.7
27.5°	7993.8	8089.9	8396.9	7942.4	6650.1	5957.1	5907.1	6206.1	7277.1	8281.0	8252.0
30°	8576.1	8647.2	8827.7	8192.7	6822.6	6049.3	5991.4	6322.0	7349.6	8503.6	8790.8
32.5°	9045.0	9164.9	9221.6	8460.1	7070.3	6223.2	6124.4	6544.7	7526.1	8778.9	9355.9
35°	9581.2	9719.5	9647.1	8715.7	7397.0	6494.6	6373.4	6905.6	7793.5	9033.2	10012.0
37.5°	10261.0	10420.4	10137.1	8984.4	7742.2	6903.0	6846.3	7412.8	8199.3	9396.8	10715.5
40°	10964.4	11056.7	10612.7	9311.1	8166.3	7497.1	7551.1	8166.3	8730.2	9832.8	11463.7
42.5°	11513.8	11600.7	11101.4	9585.2	8599.8	8201.9	8427.2	9075.3	9338.8	10279.4	12022.3
45°	11934.0	12007.8	11440.0	9884.2	9184.7	9222.9	9648.4	10012.0	9948.7	10552.1	12453.1
47.5°	12260.7	12324.0	11700.8	10205.6	10060.7	10471.7	11122.5	11276.7	10581.1	10847.2	12843.0
50°	12395.1	12413.5	11782.5	10615.3	11055.3	12063.1	12741.6	12648.0	11305.6	11175.2	13258.0
52.5°	12570.3	12566.4	12015.7	11005.3	11990.7	13485.9	14163.0	13950.9	12125.0	11666.6	13724.3
55°	13030.1	13035.3	12515.0	11558.6	12787.7	14634.6	15359.2	15205.0	12989.2	12496.5	14268.4
57.5°	13588.6	13608.4	13225.0	12205.4	13549.1	15467.2	16252.3	16193.1	14157.7	13420.0	14782.2
59°	13661.1	13700.6	13561.0	12661.2	14001.0	15722.8	16558.0	16615.9	14783.5	14028.6	15060.1
60°	13529.3	13595.2	13658.4	12919.4	14265.8	15815.0	16576.4	16689.7	15253.8	14442.3	15186.6
62.5°	12955.0	13059.0	13376.5	13713.8	14596.4	15527.8	15987.5	16224.7	15836.1	15529.1	15198.4
65°	12202.8	12256.8	12715.2	13854.7	13954.9	14186.7	14329.0	14633.3	15136.5	15948.0	14654.4
67.5°	10969.7	11129.1	11690.3	13036.7	12061.8	11787.8	11752.2	11449.2	12756.1	14949.5	13313.3
70°	9062.2	9133.3	9824.9	10687.8	9103.0	8681.4	8850.1	8736.8	9888.1	12869.3	10715.5
72.5°	6852.9	7013.7	7689.5	8519.4	6194.3	5647.5	6112.6	6070.4	7427.3	10342.6	7361.4
75°	4875.6	4979.6	5841.2	6667.2	4338.1	3675.5	3842.8	3999.5	5185.2	8166.3	4349.9
77.5°	3350.1	3439.6	4086.5	4409.2	3164.3	3031.3	2773.1	2924.6	3397.5	4845.3	2367.3
80°	2020.8	2016.9	2442.4	2521.4	2204.0	2559.6	2147.3	2410.8	2053.8	2073.5	916.9
82.5°	1312.1	1298.9	1493.9	1628.3	1226.5	1289.7	865.5	1247.5	1338.4	578.3	289.8
85°	587.5	612.6	718.0	947.2	537.5	285.9	176.5	383.4	570.4	291.1	0.0
87.5°	60.6	47.4	126.5	230.5	73.8	7.9	26.3	13.2	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°	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1
2.5°	6270.7	6194.3	5966.3	5752.9	5569.8	5345.9	5201.0	4973.1	4834.7	4792.6	4799.2
5°	6019.0	5799.0	5365.6	5019.2	4633.2	4413.2	4078.6	3757.1	3583.2	3518.7	3489.7
7.5°	5492.1	5256.3	4733.3	4189.2	3775.6	3389.6	3140.6	2857.4	2663.7	2504.3	2476.6
10°	5100.8	4791.3	4143.1	3558.2	3231.5	2941.7	2692.7	2409.5	2181.6	1999.8	1949.7
12.5°	4866.3	4519.9	3796.6	3306.6	2997.0	2699.3	2375.2	2047.2	1814.0	1617.7	1526.8
15°	4824.2	4422.4	3699.2	3126.1	2744.1	2384.4	1953.7	1599.3	1359.5	1173.8	1117.1
17.5°	5078.4	4597.6	3684.7	2937.7	2413.4	1903.6	1455.7	1161.9	891.9	787.8	746.9
20°	5531.6	4907.2	3683.4	2719.0	2073.5	1466.2	1022.3	757.5	648.1	598.1	574.4
22.5°	6149.5	5328.7	3753.2	2530.7	1720.5	1081.6	729.8	603.4	540.1	499.3	490.1
25°	6904.3	5953.2	3924.4	2402.9	1450.4	848.4	602.0	516.4	463.7	445.3	437.4
27.5°	7574.9	6551.3	4112.8	2271.1	1256.8	750.9	558.6	472.9	430.8	416.3	404.4
30°	8153.2	7094.0	4203.7	2097.2	1101.3	687.7	566.5	505.9	450.5	407.1	387.3
32.5°	8635.3	7510.3	4263.0	1939.2	969.6	562.5	447.9	391.3	366.2	350.4	337.2
35°	9238.7	7960.8	4227.4	1849.6	902.4	512.5	408.4	337.2	295.1	263.5	250.3
37.5°	9871.0	8411.4	4165.5	1775.8	872.1	475.6	388.6	320.1	274.0	241.1	224.0
40°	10525.8	8829.0	4093.1	1707.3	844.4	451.9	376.8	305.6	259.5	224.0	205.5
42.5°	11125.2	9236.1	4064.1	1662.5	799.6	455.8	367.5	299.0	245.0	208.1	192.3
45°	11609.9	9622.0	4103.6	1638.8	750.9	449.2	370.2	291.1	233.2	197.6	181.8
47.5°	12127.7	10167.4	4231.4	1615.1	703.5	417.6	389.9	289.8	227.9	191.0	173.9
50°	12729.7	10865.6	4523.8	1557.1	645.5	383.4	415.0	288.5	221.3	183.1	166.0
52.5°	13532.0	11658.7	4825.5	1455.7	561.2	350.4	396.5	284.6	208.1	173.9	156.8
55°	14252.6	12493.9	5081.1	1335.8	454.5	303.0	357.0	267.4	185.7	158.1	142.3
57.5°	14550.3	12965.5	5073.2	1169.8	363.6	266.1	293.8	245.0	162.0	139.6	126.5
59°	14441.0	12906.2	4903.2	1047.3	332.0	246.3	243.7	242.4	151.5	126.5	115.9
60°	14286.8	12690.2	4720.1	986.7	312.2	233.2	224.0	239.8	142.3	118.6	108.0
62.5°	13696.7	11794.4	4112.8	884.0	285.9	197.6	179.2	202.9	126.5	102.8	93.5
65°	12841.7	10417.7	3481.8	855.0	278.0	163.4	148.9	144.9	108.0	86.9	79.0
67.5°	11173.9	8815.8	2820.5	835.2	280.6	137.0	130.4	109.3	89.6	72.5	67.2
70°	8946.2	6874.0	2309.3	812.8	283.2	112.0	109.3	86.9	72.5	60.6	55.3
72.5°	5435.5	4074.6	1818.0	706.1	275.3	89.6	97.5	65.9	52.7	43.5	40.8
75°	3360.6	2788.9	1127.7	549.3	181.8	65.9	68.5	40.8	35.6	27.7	27.7
77.5°	1947.1	1761.3	403.1	197.6	80.4	39.5	30.3	21.1	19.8	11.9	11.9
80°	807.5	646.8	139.6	67.2	43.5	18.4	6.6	1.3	0.0	0.0	0.0
82.5°	235.8	209.5	38.2	30.3	13.2	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°	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1
2.5°	4687.2	4643.7	4624.0	4691.1	4629.2	4708.3	4647.7	4674.0	4751.7	4786.0	4874.3
5°	3508.1	3463.4	3442.3	3543.7	3538.4	3588.5	3583.2	3629.3	3668.9	3580.6	3671.5
7.5°	2443.7	2413.4	2463.5	2542.5	2626.8	2599.2	2599.2	2537.2	2558.3	2545.2	2541.2
10°	1858.8	1754.7	1728.4	1725.7	1757.4	1764.0	1728.4	1642.8	1674.4	1683.6	1738.9
12.5°	1462.3	1381.9	1259.4	1204.1	1189.6	1201.4	1084.2	1009.1	1044.7	1023.6	1077.6
15°	1048.6	982.8	910.3	848.4	831.3	807.5	679.8	590.2	579.6	583.6	592.8
17.5°	748.3	703.5	703.5	637.6	602.0	530.9	466.3	426.8	422.9	426.8	433.4
20°	552.0	528.3	525.6	508.5	469.0	421.6	376.8	368.9	366.2	372.8	375.4
22.5°	475.6	450.5	429.5	428.1	391.3	351.7	330.7	320.1	321.4	324.1	330.7
25°	425.5	399.2	376.8	363.6	337.2	309.6	289.8	284.6	284.6	288.5	289.8
27.5°	389.9	357.0	337.2	318.8	295.1	271.4	254.3	250.3	247.7	250.3	256.9
30°	364.9	332.0	306.9	279.3	260.8	238.4	224.0	218.7	217.4	218.7	224.0
32.5°	312.2	292.5	272.7	247.7	225.3	210.8	195.0	185.7	185.7	188.4	193.7
35°	235.8	225.3	224.0	217.4	198.9	183.1	164.7	155.4	155.4	160.7	163.4
37.5°	208.1	188.4	185.7	183.1	175.2	154.1	137.0	129.1	127.8	131.7	137.0
40°	189.7	167.3	155.4	152.8	154.1	130.4	112.0	104.1	104.1	105.4	110.7
42.5°	175.2	148.9	127.8	125.1	130.4	109.3	90.9	83.0	83.0	83.0	89.6
45°	163.4	133.1	108.0	94.9	102.8	89.6	73.8	65.9	63.2	65.9	68.5
47.5°	155.4	121.2	94.9	76.4	76.4	71.1	59.3	50.1	47.4	48.7	52.7
50°	148.9	110.7	80.4	61.9	55.3	56.6	44.8	38.2	35.6	35.6	39.5
52.5°	138.3	100.1	69.8	52.7	42.2	38.2	32.9	27.7	26.3	27.7	30.3
55°	125.1	90.9	60.6	43.5	32.9	26.3	23.7	19.8	18.4	19.8	23.7
57.5°	110.7	76.4	48.7	34.3	22.4	17.1	15.8	13.2	10.5	11.9	14.5
59°	101.4	68.5	42.2	27.7	17.1	11.9	11.9	9.2	6.6	7.9	11.9
60°	97.5	63.2	35.6	23.7	14.5	9.2	9.2	6.6	4.0	5.3	9.2
62.5°	83.0	52.7	27.7	14.5	6.6	1.3	4.0	1.3	0.0	1.3	4.0
65°	69.8	42.2	18.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	58.0	31.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	46.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.6	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.9	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°	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1	5795.1
2.5°	4879.5	5067.9	5183.8	5402.5	5626.5	5799.0	6015.1	6208.7	6289.1	6331.3
5°	3763.7	4025.9	4248.5	4581.8	4891.4	5268.1	5650.2	6100.7	6273.3	6318.1
7.5°	2641.3	2908.7	3141.9	3527.9	3969.2	4473.8	5045.5	5617.2	5868.9	5940.0
10°	1907.5	2193.4	2478.0	2864.0	3276.3	3823.0	4418.4	5125.9	5415.7	5471.0
12.5°	1204.1	1511.0	1973.4	2450.3	2886.3	3326.3	3949.5	4718.8	5038.9	5140.4
15°	698.2	927.4	1276.5	1898.3	2452.9	3035.2	3715.0	4566.0	4924.3	5028.4
17.5°	467.7	546.7	786.5	1262.0	1994.5	2766.5	3655.7	4691.1	5087.7	5220.7
20°	393.9	429.5	513.8	769.3	1536.0	2526.7	3671.5	5031.0	5551.4	5717.4
22.5°	346.5	379.4	433.4	553.3	1072.3	2229.0	3746.6	5517.1	6189.0	6401.1
25°	305.6	338.6	386.0	458.4	720.6	1885.2	3911.3	6228.5	7033.4	7266.6
27.5°	271.4	301.7	342.5	404.4	554.6	1501.8	4057.5	6921.4	7804.1	7993.8
30°	239.8	264.8	304.3	351.7	461.1	1158.0	4131.3	7527.4	8365.3	8576.1
32.5°	208.1	231.9	270.1	308.3	379.4	882.6	4079.9	7972.7	8910.7	9045.0
35°	177.8	202.9	234.5	270.1	328.0	712.7	3823.0	8473.3	9475.8	9581.2
37.5°	152.8	173.9	206.8	234.5	296.4	570.4	3512.1	8923.8	10109.5	10261.0
40°	129.1	150.2	183.1	208.1	272.7	449.2	3231.5	9424.4	10777.4	10964.4
42.5°	105.4	130.4	159.4	200.2	234.5	342.5	2891.6	9830.2	11279.3	11513.8
45°	84.3	112.0	143.6	198.9	204.2	260.8	2563.6	10146.4	11723.2	11934.0
47.5°	67.2	94.9	138.3	185.7	167.3	206.8	2376.5	10477.0	12092.1	12260.7
50°	54.0	79.0	144.9	163.4	139.6	175.2	2371.3	10845.9	12283.1	12395.1
52.5°	43.5	64.6	122.5	125.1	118.6	154.1	2513.5	11260.8	12478.1	12570.3
55°	36.9	54.0	80.4	92.2	106.7	139.6	2620.2	11899.8	12943.1	13030.1
57.5°	29.0	46.1	61.9	73.8	94.9	127.8	2634.7	12392.5	13532.0	13588.6
59°	25.0	39.5	55.3	65.9	86.9	119.9	2575.4	12422.8	13570.2	13661.1
60°	21.1	35.6	48.7	61.9	80.4	113.3	2510.9	12202.8	13427.9	13529.3
62.5°	15.8	27.7	35.6	50.1	65.9	97.5	2205.3	11434.7	12883.8	12955.0
65°	10.5	19.8	26.3	36.9	51.4	84.3	1796.9	10438.8	12043.4	12202.8
67.5°	6.6	14.5	21.1	27.7	42.2	71.1	1280.5	8951.5	10866.9	10969.7
70°	4.0	9.2	15.8	22.4	32.9	56.6	760.1	7075.6	9041.1	9062.2
72.5°	2.6	6.6	10.5	15.8	26.3	51.4	368.9	4612.1	6601.3	6852.9
75°	1.3	4.0	6.6	11.9	21.1	42.2	176.5	3081.3	4803.1	4875.6
77.5°	0.0	1.3	4.0	7.9	15.8	32.9	102.8	2023.5	3275.0	3350.1
80°	0.0	0.0	2.6	6.6	11.9	21.1	61.9	1193.5	1984.0	2020.8
82.5°	0.0	0.0	1.3	5.3	7.9	15.8	31.6	524.3	1298.9	1312.1
85°	0.0	0.0	1.3	5.3	6.6	10.5	11.9	71.1	577.0	587.5
87.5°	0.0	0.0	1.3	6.6	6.6	6.6	6.6	4.0	48.7	60.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)