

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: P952350

Luminaire Tested: **GALN-SB6B-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27005 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

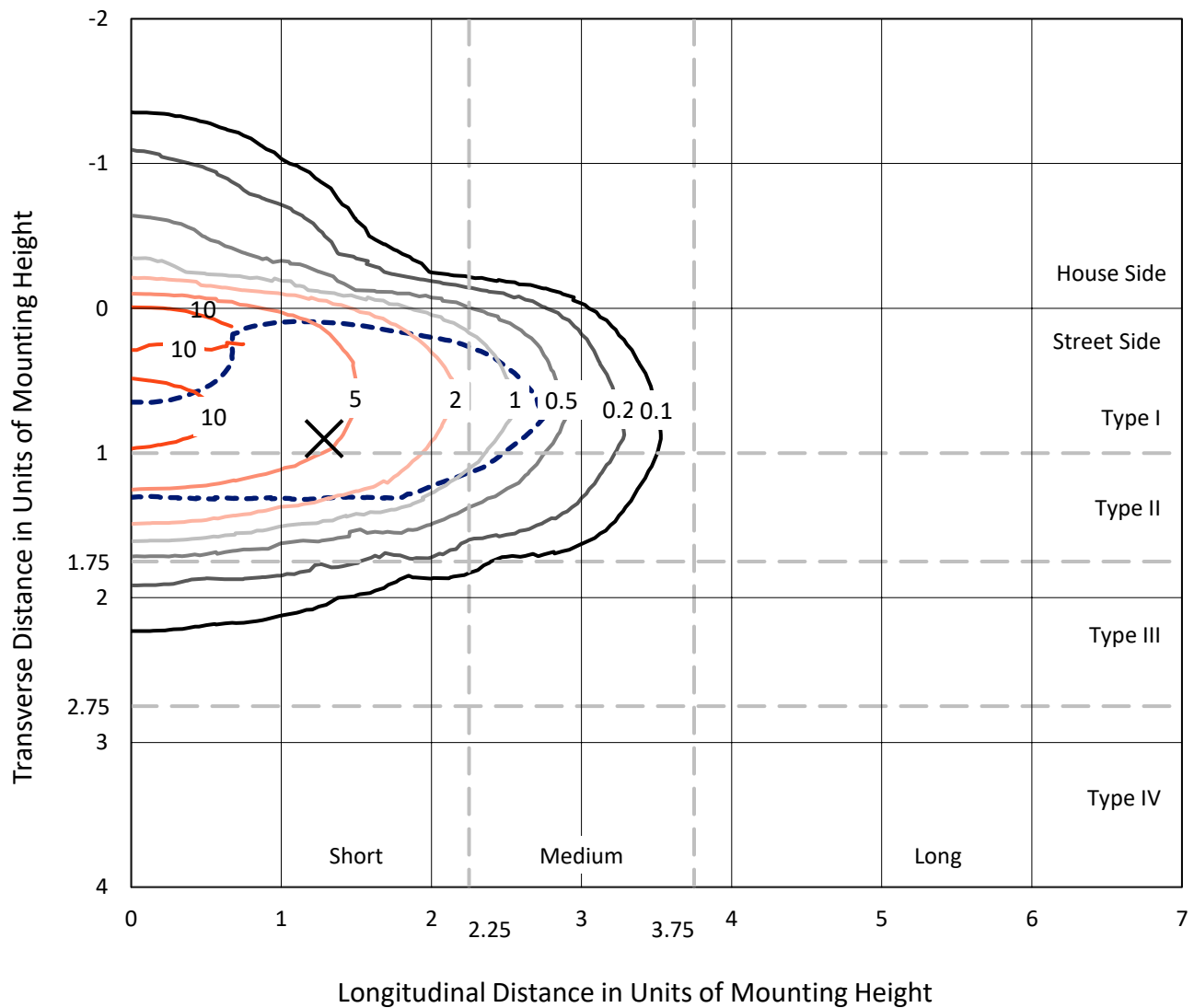
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

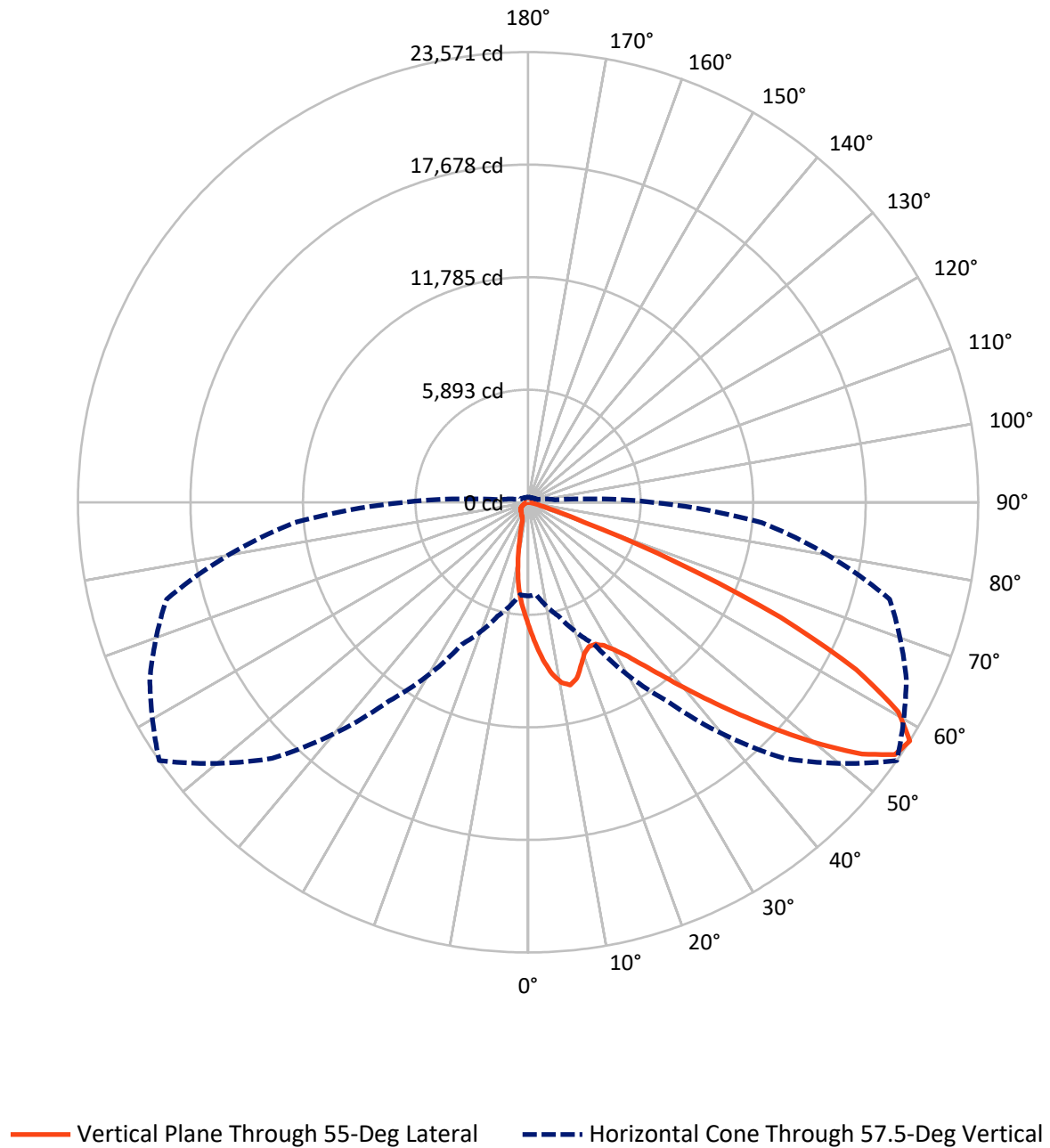
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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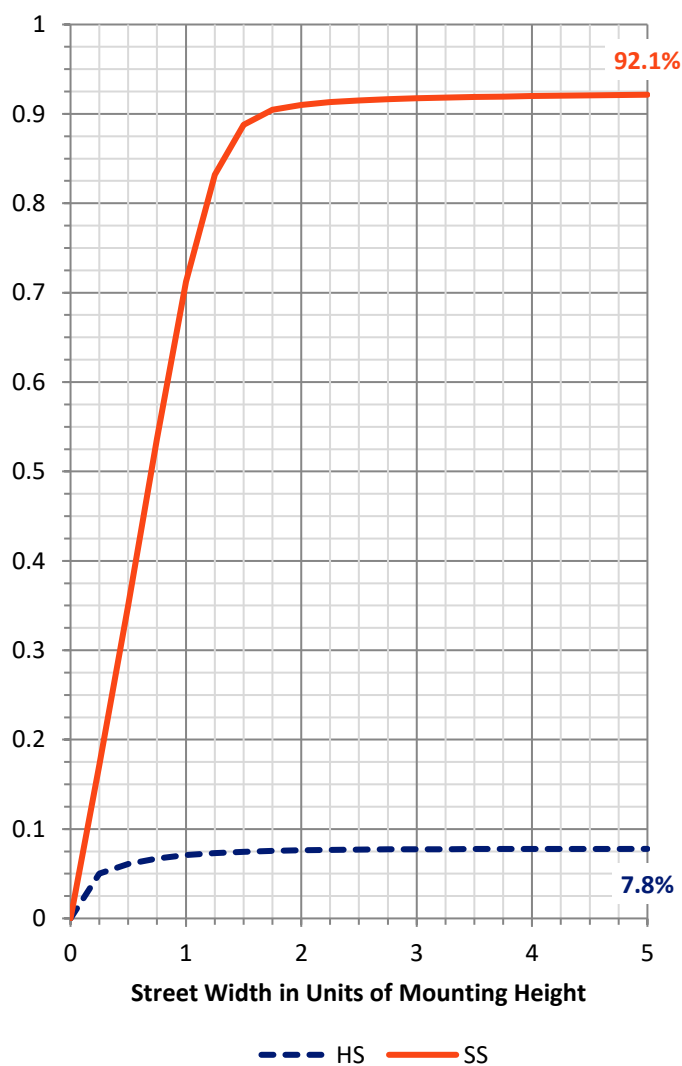
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.0	0.0	2109.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	24896.0	0.0	24896.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	27005.0	0.0	27005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.5	2.2
10°-20°	1462.6	5.4
20°-30°	2340.1	8.7
30°-40°	3960.7	14.7
40°-50°	6502.7	24.1
50°-60°	7146.9	26.5
60°-70°	4099.5	15.2
70°-80°	837.6	3.1
80°-90°	49.4	0.2
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°	27005.0	100.0
0°-180°	27005.0	100.0

Coefficient of Utilization



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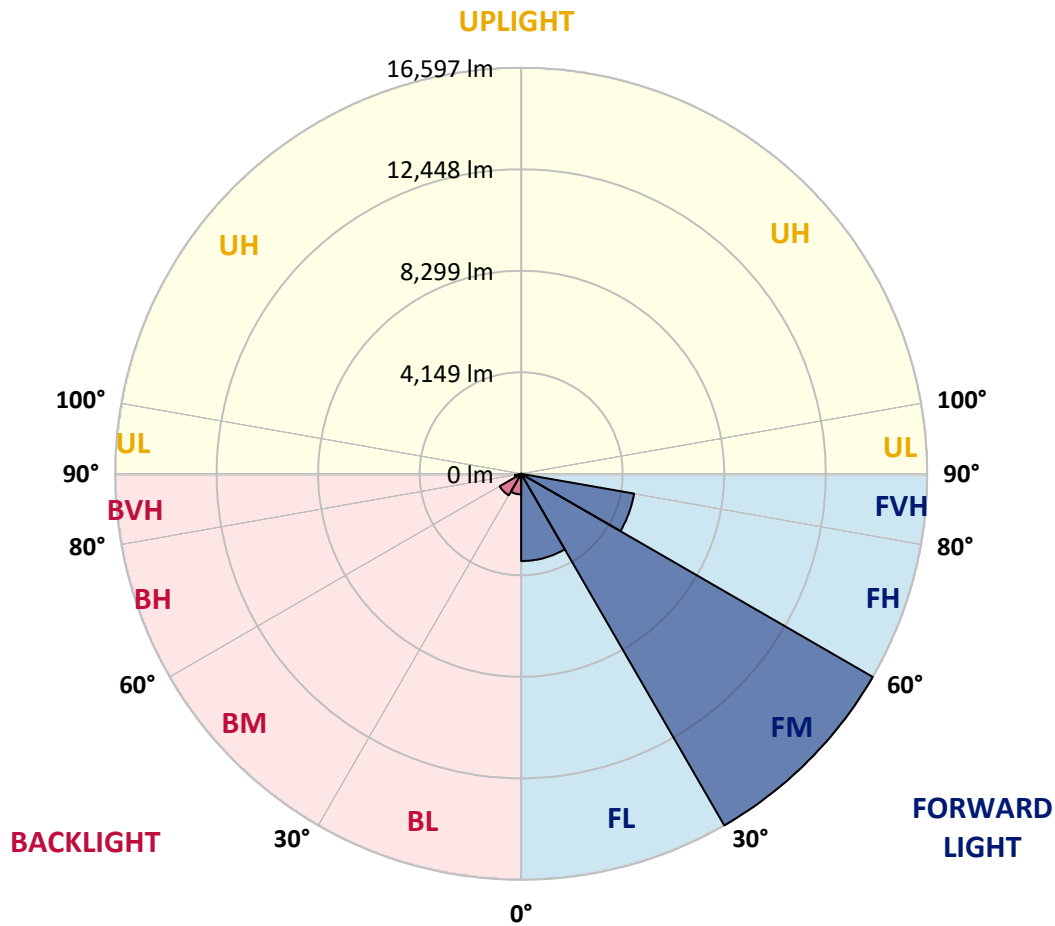
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3566.2	13.2			
FM	(30°-60°)	16597.5	61.5			
FH	(60°-80°)	4686.3	17.4			G2/5000
FVH	(80°-90°)	46.1	0.2			G1/100
BL	(0°-30°)	842.0	3.1	B2/1000		
BM	(30°-60°)	1012.9	3.8	B2/2500		
BH	(60°-80°)	250.8	0.9	B1/500		G1/500
BVH	(80°-90°)	3.3	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5
2.5°	8074.5	7972.9	7957.9	7937.9	7744.8	7599.9	7390.1	7160.3	6902.2	6639.1	6522.5
5°	9328.4	9248.4	9233.4	9140.2	8920.4	8673.9	8300.9	7829.7	7348.5	6782.3	6539.2
7.5°	9571.5	9556.5	9624.8	9621.4	9591.5	9396.6	9081.9	8520.7	7798.1	6958.8	6582.5
10°	8487.4	8525.7	8728.9	8907.1	9388.3	9668.1	9599.8	9136.9	8261.0	7160.3	6630.8
12.5°	7500.0	7455.0	7599.9	7801.4	8360.9	9193.5	9814.6	9651.4	8790.5	7388.4	6702.4
15°	6880.5	6862.2	6943.8	7037.1	7463.4	8302.6	9564.8	10069.4	9300.1	7658.2	6810.6
17.5°	6682.4	6667.4	6692.4	6715.7	6992.1	7641.5	8970.3	10325.8	9788.0	7966.2	6930.5
20°	6843.9	6823.9	6820.6	6802.3	6917.2	7360.1	8432.5	10344.1	10225.9	8246.0	7033.7
22.5°	7315.2	7291.8	7210.2	7137.0	7147.0	7398.4	8192.7	10161.0	10555.6	8507.4	7098.7
25°	8169.4	8131.1	7961.2	7714.8	7558.3	7664.8	8229.3	9919.5	10870.3	8712.2	7067.0
27.5°	9238.4	9188.5	8970.3	8604.0	8246.0	8116.1	8494.1	9753.0	11131.8	8868.8	6998.8
30°	10285.8	10220.9	10006.1	9721.3	9198.5	8788.8	8972.0	9826.3	11443.1	9032.0	6908.8
32.5°	11416.5	11354.9	11070.1	10717.1	10284.2	9733.0	9626.4	10184.3	11824.5	9260.1	6845.6
35°	12846.9	12750.3	12345.7	11864.4	11404.8	10847.0	10512.3	10802.0	12332.4	9608.1	6880.5
37.5°	14475.4	14345.6	13909.3	13244.9	12645.4	12021.0	11591.3	11651.3	13076.7	10074.4	6988.8
40°	16010.7	15892.5	15489.5	14863.4	14110.8	13353.1	12895.2	12762.0	14104.1	10642.2	7178.6
42.5°	16931.6	16825.0	16655.2	16390.4	15756.0	14983.3	14405.5	14117.4	15319.7	11321.6	7410.1
45°	16983.2	16890.0	17118.1	17426.2	17301.3	16786.7	16082.3	15554.5	16540.3	11959.4	7649.9
47.5°	16157.3	16094.0	16786.7	17862.4	18398.6	18615.1	17965.7	16871.6	17547.7	12417.3	7748.1
50°	13906.0	13882.6	15308.0	17282.9	18816.6	20217.0	19952.2	18097.2	18328.7	12653.7	7654.9
52.5°	12057.6	11972.7	12803.6	15427.9	18208.8	21059.6	21893.8	19299.5	18874.9	12698.7	7436.7
55°	9145.2	9070.3	10112.7	12324.0	16248.9	20759.9	23314.2	20540.0	19266.2	12583.8	7045.4
57.5°	4905.6	4859.0	6176.2	8202.7	12702.0	18961.5	23570.7	21852.2	19595.9	12279.1	6497.5
60°	1910.0	1901.6	2394.5	3979.8	7719.8	15426.3	22276.8	22639.8	19802.4	11904.4	6039.6
62.5°	1155.6	1180.6	1260.5	1786.7	3410.3	9583.1	19294.5	21744.0	19940.6	11561.4	5661.6
65°	955.8	957.5	967.5	1227.2	1633.5	4009.8	14525.4	18796.6	19599.2	10950.3	5125.4
67.5°	819.3	834.3	872.6	974.1	1152.3	1758.4	8362.6	14560.4	17522.7	9528.2	4289.5
70°	646.1	666.1	714.4	801.0	889.2	1100.7	3090.6	9688.0	13386.4	7181.9	3243.8
72.5°	544.5	542.9	567.8	651.1	706.0	774.3	1188.9	5428.5	7779.7	3428.6	1605.2
75°	421.3	437.9	469.6	544.5	577.8	561.2	644.4	1983.2	2787.5	1039.1	546.2
77.5°	329.7	343.0	371.3	444.6	477.9	398.0	371.3	709.4	895.9	373.0	246.4
80°	148.2	159.9	253.1	328.0	389.7	274.8	201.5	363.0	398.0	169.8	124.9
82.5°	26.6	45.0	148.2	173.2	199.8	178.2	104.9	188.2	194.8	68.3	43.3
85°	1.7	3.3	51.6	63.3	79.9	58.3	31.6	74.9	64.9	23.3	16.7
87.5°	0.0	0.0	0.0	1.7	1.7	8.3	10.0	13.3	10.0	8.3	6.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5	6507.5
2.5°	6402.6	6166.2	5936.4	5748.2	5638.3	5451.8	5328.6	5308.6	5257.0	5301.9
5°	6279.4	5856.5	5428.5	5045.5	4730.8	4324.5	4021.4	3893.2	3781.6	3819.9
7.5°	6221.1	5553.4	4887.3	4232.9	3560.2	2910.7	2427.8	2226.4	2073.2	2094.8
10°	6142.9	5238.7	4194.6	3195.5	2294.6	1653.5	1320.5	1197.3	1129.0	1130.7
12.5°	6082.9	4862.3	3390.3	2166.4	1397.1	1055.7	952.5	922.5	902.5	904.2
15°	6052.9	4419.4	2596.0	1443.7	999.1	894.2	869.2	855.9	842.6	840.9
17.5°	6003.0	3926.5	1900.0	1054.1	874.2	837.6	815.9	801.0	784.3	781.0
20°	5928.1	3367.0	1388.8	890.9	819.3	791.0	761.0	741.0	721.0	717.7
22.5°	5789.8	2775.9	1067.4	824.3	779.3	747.7	711.0	687.7	667.7	664.4
25°	5533.4	2221.4	899.2	782.6	744.3	706.0	666.1	634.4	616.1	612.8
27.5°	5208.7	1745.1	815.9	744.3	699.4	664.4	619.4	589.5	572.8	569.5
30°	4825.7	1343.8	767.6	701.0	646.1	616.1	576.2	551.2	541.2	541.2
32.5°	4412.7	1074.0	747.7	657.7	599.5	566.2	534.5	524.5	521.2	519.5
35°	4024.7	932.5	737.7	622.8	557.8	526.2	512.9	514.5	521.2	521.2
37.5°	3680.1	887.5	732.7	597.8	521.2	492.9	501.2	516.2	509.5	509.5
40°	3368.7	892.5	729.4	579.5	491.2	474.6	491.2	479.6	462.9	461.3
42.5°	3130.5	934.2	722.7	564.5	472.9	461.3	454.6	436.3	434.6	437.9
45°	2957.4	970.8	721.0	557.8	452.9	431.3	423.0	404.6	437.9	446.3
47.5°	2752.5	970.8	721.0	534.5	419.6	411.3	398.0	378.0	411.3	419.6
50°	2487.8	909.2	692.7	507.9	393.0	388.0	364.7	339.7	333.0	338.0
52.5°	2153.1	797.6	621.1	471.2	366.3	356.3	328.0	309.7	304.7	304.7
55°	1771.8	667.7	524.5	418.0	338.0	319.7	299.7	291.4	286.4	283.1
57.5°	1440.4	547.8	421.3	371.3	311.4	288.1	281.4	271.4	263.1	258.1
60°	1182.3	431.3	348.0	329.7	284.7	263.1	261.4	248.1	226.5	223.1
62.5°	912.5	316.4	293.1	286.4	258.1	239.8	236.5	209.8	176.5	169.8
65°	644.4	246.4	236.5	251.4	229.8	213.1	204.8	164.9	129.9	124.9
67.5°	452.9	206.5	186.5	219.8	199.8	178.2	173.2	139.9	108.2	104.9
70°	323.0	168.2	153.2	188.2	159.9	156.5	146.5	116.6	88.3	84.9
72.5°	228.1	128.2	118.2	163.2	109.9	134.9	119.9	89.9	66.6	63.3
75°	168.2	91.6	83.3	94.9	79.9	101.6	84.9	59.9	41.6	40.0
77.5°	123.2	58.3	50.0	46.6	46.6	63.3	46.6	25.0	18.3	16.7
80°	86.6	26.6	23.3	20.0	18.3	15.0	6.7	3.3	1.7	1.7
82.5°	51.6	11.7	11.7	8.3	5.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	5.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	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

(END OF REPORT)