

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: P532368

Luminaire Tested: **GALN-SA7D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38122 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

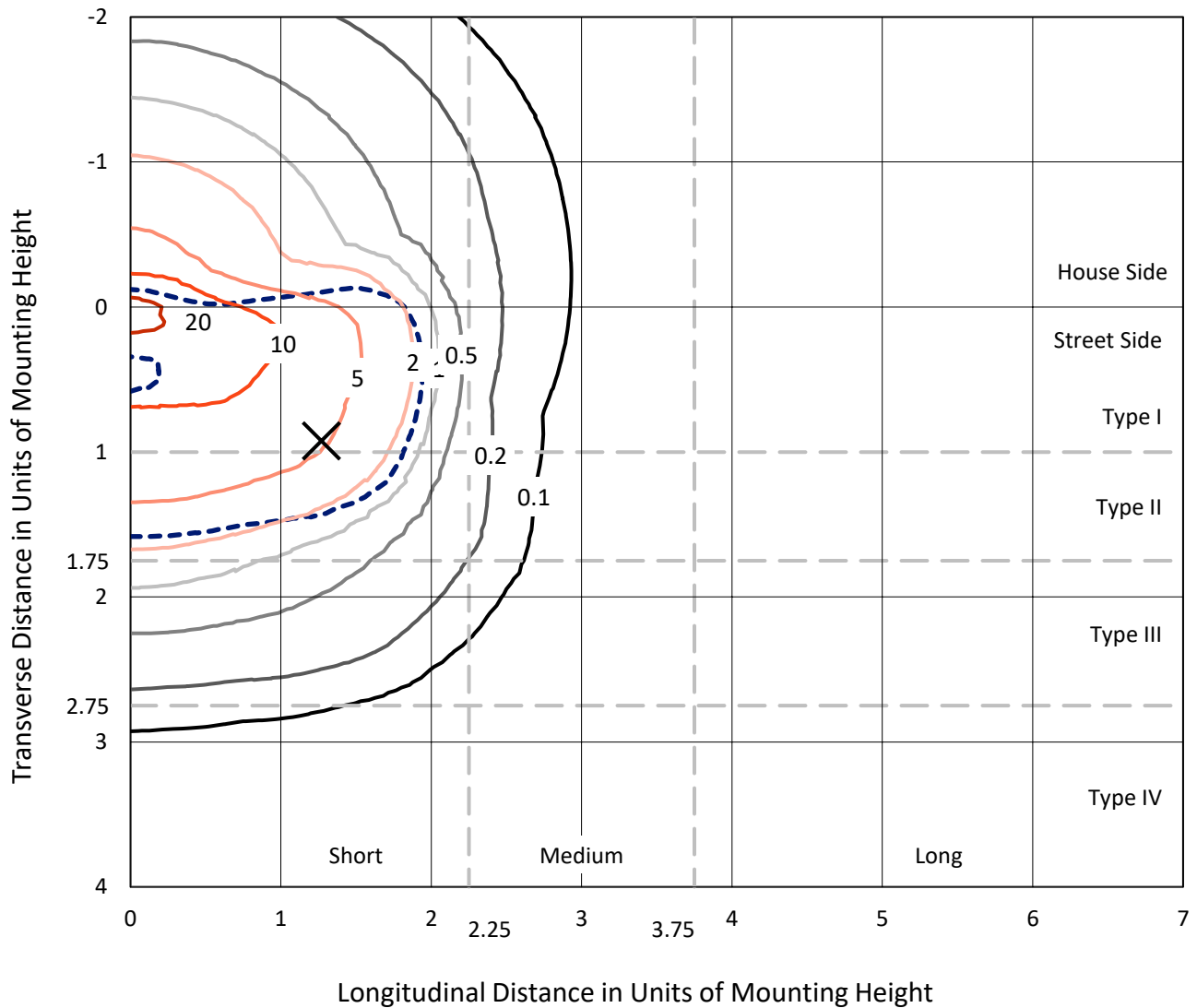
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

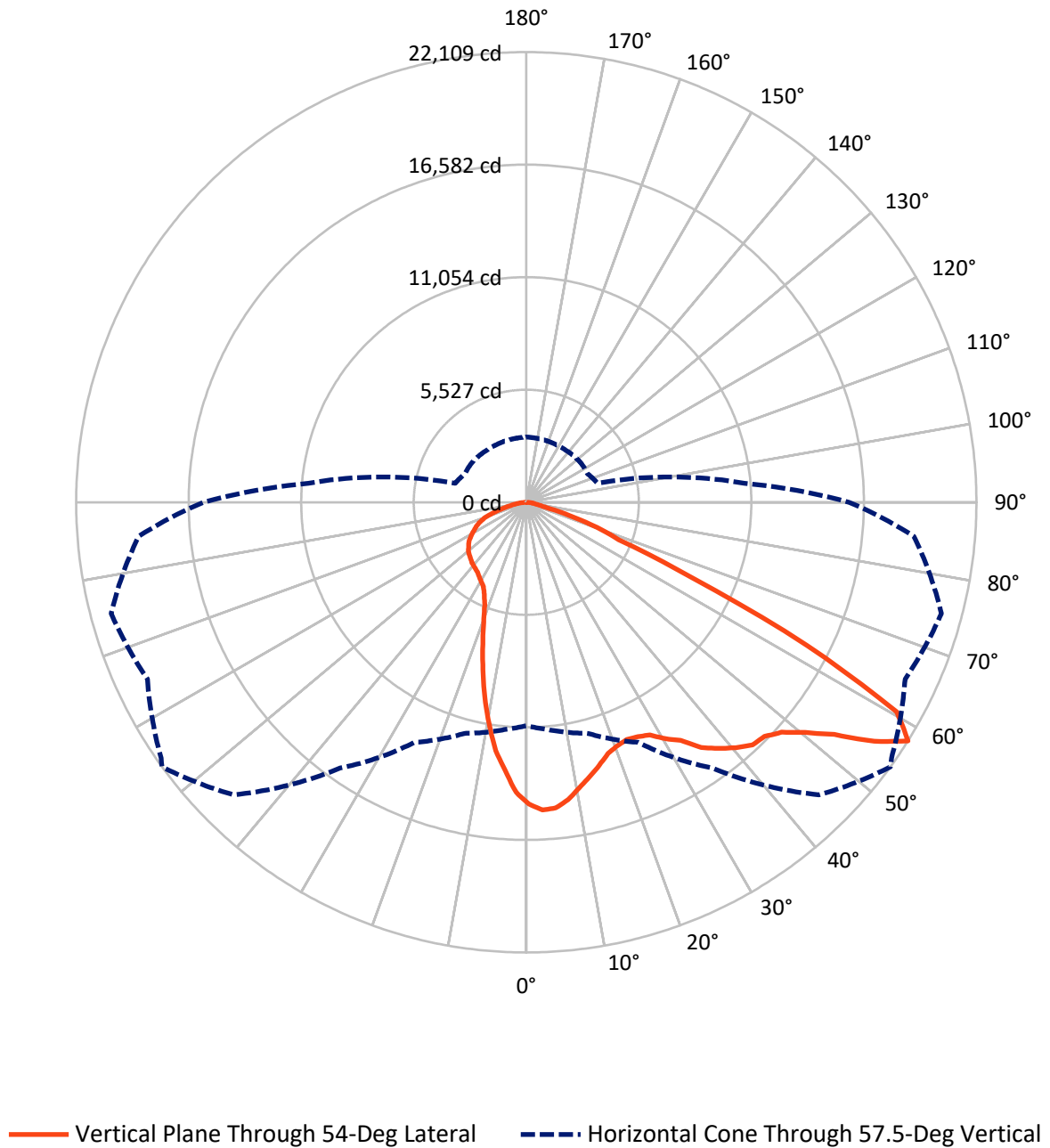
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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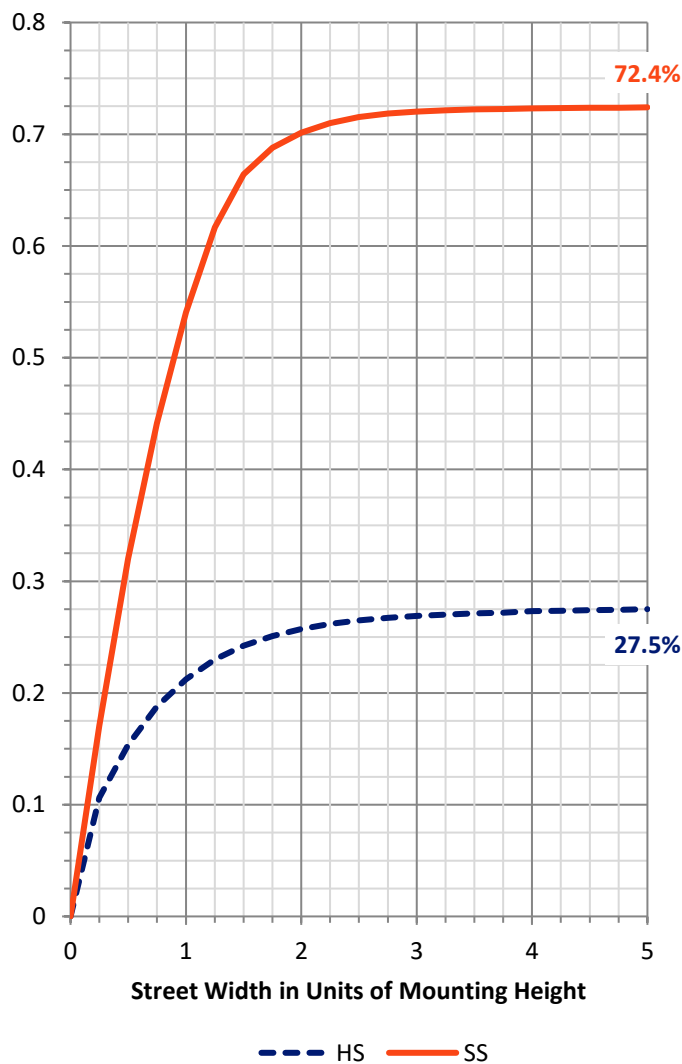
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10546.7	0.0	10546.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	27575.4	0.0	27575.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	38122.0	0.0	38122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1277.9	3.4
10°-20°	2958.7	7.8
20°-30°	4157.1	10.9
30°-40°	5811.6	15.2
40°-50°	7867.8	20.6
50°-60°	9583.4	25.1
60°-70°	4991.4	13.1
70°-80°	1279.0	3.4
80°-90°	195.1	0.5
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°	38122.0	100.0
0°-180°	38122.0	100.0

Coefficient of Utilization



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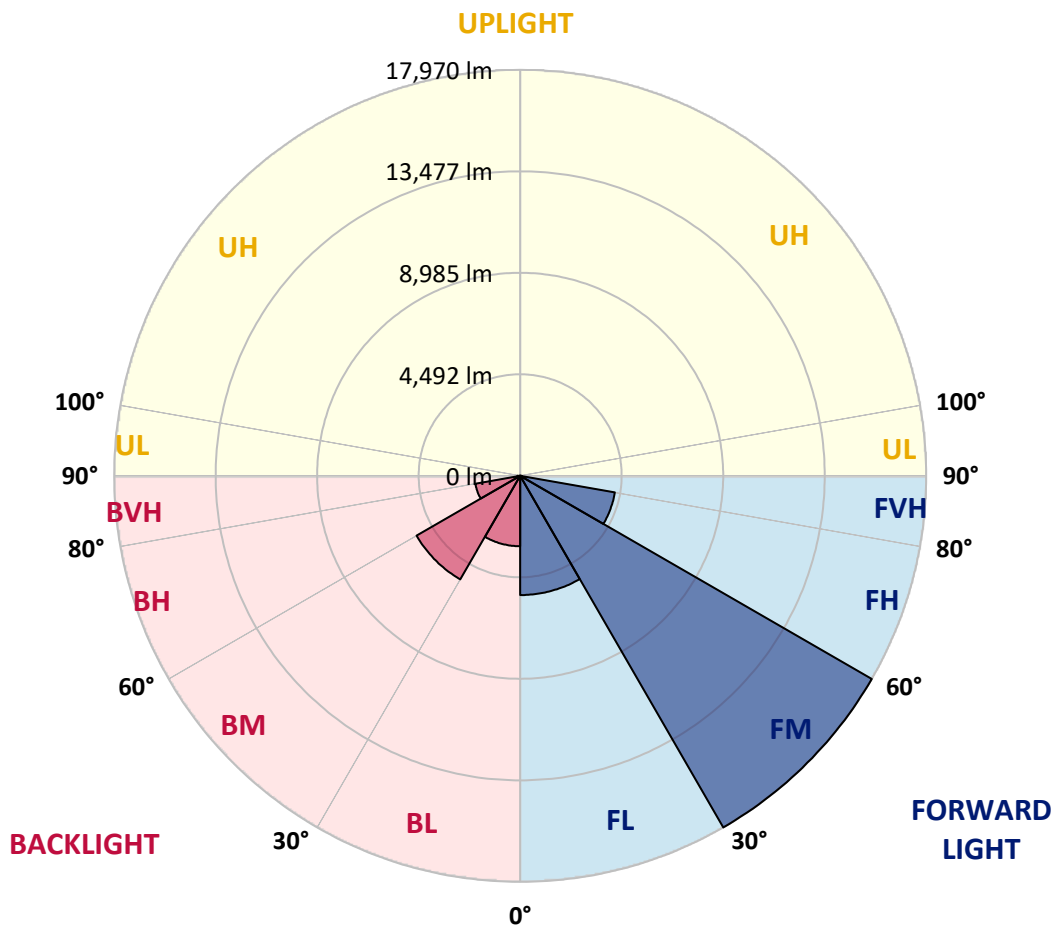
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5276.6	13.8			
FM (30°-60°)	17969.5	47.1			
FH (60°-80°)	4255.5	11.2			G2/5000
FVH (80°-90°)	73.7	0.2			G1/100
BL (0°-30°)	3117.1	8.2	B4/5000		
BM (30°-60°)	5293.3	13.9	B4/8500		
BH (60°-80°)	2014.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	121.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6
2.5°	15239.0	15180.2	15190.0	15268.4	15170.4	15131.2	15131.2	14940.1	14954.8	14822.5	14788.2
5°	14886.2	14749.0	14842.1	14959.7	14979.3	15018.5	15082.2	15033.2	14896.0	14753.9	14523.6
7.5°	13965.0	14087.5	14121.8	14205.1	14381.5	14543.2	14744.1	14606.9	14602.0	14459.9	14322.7
10°	13156.5	13083.0	13269.2	13391.7	13685.7	13955.2	14263.9	14249.2	14322.7	14161.0	13925.8
12.5°	12352.9	12294.1	12382.3	12661.6	13073.2	13465.2	13832.7	13695.5	14087.5	14058.1	13553.4
15°	11500.3	11544.4	11671.8	11931.5	12470.5	12940.9	13406.4	13411.3	13759.2	13876.8	13200.6
17.5°	10902.5	10853.5	11015.2	11402.3	11882.5	12446.0	12975.2	13083.0	13617.1	13685.7	13092.8
20°	10456.6	10525.2	10735.9	10931.9	11485.6	12166.7	12764.5	12803.7	13587.7	13773.9	12921.3
22.5°	10348.8	10309.6	10378.2	10696.7	11152.4	11892.3	12651.8	12798.8	13582.8	13744.5	12597.9
25°	10236.1	10363.5	10358.6	10677.1	11010.3	11671.8	12744.9	12906.6	13842.5	13896.4	12642.0
27.5°	10490.9	10476.2	10613.4	10637.9	11049.5	11730.6	12940.9	13063.4	14273.7	14229.6	12676.3
30°	10745.7	10672.2	10755.5	11044.6	11235.7	12068.7	13479.9	13470.1	14832.3	14802.9	12784.1
32.5°	11059.3	11025.0	11078.9	11333.7	11657.1	12519.5	13935.6	14224.7	15400.7	15586.9	13156.5
35°	11118.1	11260.2	11387.6	11730.6	12191.2	13249.6	14793.1	15033.2	16057.3	16640.4	13867.0
37.5°	11490.5	11544.4	11843.3	12450.9	12872.3	14224.7	15337.0	15488.9	16655.1	17316.6	14616.7
40°	11887.4	11951.1	12401.9	13038.9	13617.1	14861.7	15846.6	15895.6	16846.2	17836.0	15106.7
42.5°	12426.4	12485.2	12931.1	13729.8	14504.0	15405.6	16297.4	16351.3	16831.5	18433.8	15885.8
45°	12985.0	13127.1	13651.4	14557.9	15253.7	16042.6	16400.3	16620.8	16968.7	18967.9	16517.9
47.5°	13769.0	13901.3	14332.5	15219.4	16032.8	16601.2	16875.6	17091.2	17297.0	19433.4	16924.6
50°	14602.0	14626.5	15150.8	15954.4	16552.2	17233.3	17762.5	17836.0	17728.2	19972.4	17615.5
52.5°	15214.5	15292.9	15699.6	16483.6	17375.4	18213.3	18938.5	19016.9	18806.2	20173.3	17850.7
55°	14200.2	14156.1	14817.6	15861.3	17929.1	19673.5	20727.0	20785.8	19590.2	20795.6	18620.0
57.5°	10976.0	11186.7	11750.2	13009.5	15929.9	20320.3	22108.8	21898.1	20531.0	21109.2	19110.0
60°	7977.2	7928.2	8305.5	9148.3	12005.0	17512.6	20903.4	21119.0	19761.7	19026.7	15758.4
62.5°	6497.4	6428.8	6458.2	6487.6	7746.9	11622.8	15474.2	15469.3	15219.4	13675.9	10628.1
65°	5194.0	5355.7	5370.4	5590.9	5752.6	6943.3	8967.0	9447.2	8227.1	6747.3	4895.1
67.5°	3915.1	3856.3	4052.3	4836.3	5140.1	5012.7	4895.1	4949.0	3518.2	2538.2	2391.2
70°	2307.9	2283.4	2518.6	3371.2	4233.6	3983.7	3689.7	3694.6	2415.7	1773.8	1974.7
72.5°	1264.2	1259.3	1308.3	1710.1	2405.9	2499.0	2214.8	2283.4	1440.6	1435.7	1543.5
75°	705.6	690.9	676.2	754.6	867.3	916.3	935.9	945.7	989.8	1107.4	1151.5
77.5°	259.7	249.9	249.9	289.1	367.5	460.6	583.1	592.9	700.7	803.6	847.7
80°	88.2	98.0	132.3	181.3	245.0	328.3	396.9	406.7	494.9	563.5	578.2
82.5°	53.9	58.8	88.2	127.4	176.4	230.3	294.0	298.9	367.5	411.6	431.2
85°	24.5	29.4	49.0	78.4	112.7	151.9	156.8	156.8	151.9	156.8	147.0
87.5°	0.0	0.0	9.8	9.8	9.8	14.7	19.6	14.7	24.5	29.4	29.4
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°	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6	14817.6
2.5°	14685.3	14631.4	14464.8	14317.8	14273.7	14077.7	13788.6	13822.9	13612.2	13710.2	13607.3
5°	14484.4	14303.1	13876.8	13695.5	13220.2	13004.6	12857.6	12490.1	12318.6	12284.3	12137.3
7.5°	13969.9	13857.2	13323.1	12833.1	12328.4	11897.2	11343.5	10966.2	10696.7	10623.2	10407.6
10°	13563.2	13313.3	12573.4	11828.6	11108.3	10358.6	9638.3	9074.8	8800.4	8481.9	8374.1
12.5°	13161.4	12784.1	11784.5	10829.0	9898.0	8952.3	8080.1	7394.1	6796.3	6654.2	6605.2
15°	12911.5	12254.9	11078.9	9927.4	8604.4	7369.6	6497.4	6046.6	5679.1	5527.2	5635.0
17.5°	12583.2	11818.8	10402.7	8869.0	7413.7	6276.9	5546.8	5267.5	5135.2	5149.9	5105.8
20°	12171.6	11407.2	9515.8	7908.6	6350.4	5443.9	5027.4	4924.5	4944.1	4978.4	4963.7
22.5°	11877.6	10907.4	8873.9	6928.6	5488.0	4983.3	4811.8	4738.3	4802.0	4831.4	4806.9
25°	11652.2	10481.1	8094.8	6061.3	4988.2	4723.6	4645.2	4640.3	4738.3	4777.5	4753.0
27.5°	11446.4	10084.2	7320.6	5399.8	4655.0	4522.7	4498.2	4557.0	4620.7	4659.9	4694.2
30°	11323.9	9780.4	6595.4	4846.1	4488.4	4424.7	4380.6	4434.5	4468.8	4508.0	4488.4
32.5°	11441.5	9564.8	5894.7	4532.5	4351.2	4287.5	4346.3	4312.0	4370.8	4405.1	4351.2
35°	11809.0	9373.7	5394.9	4365.9	4194.4	4218.9	4228.7	4214.0	4238.5	4209.1	4272.8
37.5°	12171.6	9305.1	4934.3	4223.8	4120.9	4120.9	4111.1	4081.7	4130.7	4120.9	4150.3
40°	12632.2	9349.2	4542.3	4071.9	4052.3	4042.5	4003.3	3998.4	3978.8	3983.7	3993.5
42.5°	13034.0	9447.2	4316.9	3973.9	3988.6	4008.2	3934.7	3875.9	3900.4	3851.4	3851.4
45°	13460.3	9535.4	4116.0	3905.3	3890.6	3885.7	3826.9	3792.6	3773.0	3777.9	3822.0
47.5°	14131.6	9662.8	3964.1	3812.2	3822.0	3748.5	3733.8	3689.7	3709.3	3738.7	3743.6
50°	14606.9	9932.3	3846.5	3704.4	3738.7	3689.7	3601.5	3581.9	3581.9	3630.9	3621.1
52.5°	14940.1	10309.6	3733.8	3586.8	3601.5	3562.3	3532.9	3488.8	3459.4	3528.0	3562.3
55°	15959.3	10936.8	3704.4	3488.8	3483.9	3444.7	3390.8	3346.7	3332.0	3341.8	3410.4
57.5°	15861.3	10740.8	3611.3	3317.3	3307.5	3253.6	3199.7	3185.0	3180.1	3189.9	3209.5
60°	12877.2	7933.1	3224.2	3121.3	3106.6	3096.8	3042.9	2984.1	2954.7	2984.1	2959.6
62.5°	8521.1	5311.6	2842.0	2886.1	2895.9	2871.4	2783.2	2724.4	2734.2	2768.5	2714.6
65°	4184.6	3121.3	2577.4	2695.0	2704.8	2636.2	2552.9	2484.3	2450.0	2479.4	2454.9
67.5°	2391.2	2386.3	2361.8	2484.3	2479.4	2410.8	2278.5	2219.7	2160.9	2170.7	2156.0
70°	2028.6	2067.8	2116.8	2190.3	2185.4	2107.0	1950.2	1906.1	1822.8	1813.0	1788.5
72.5°	1597.4	1666.0	1773.8	1827.7	1783.6	1685.6	1582.7	1509.2	1435.7	1391.6	1406.3
75°	1185.8	1283.8	1342.6	1376.9	1308.3	1254.4	1171.1	1082.9	994.7	955.5	940.8
77.5°	862.4	891.8	945.7	970.2	926.1	872.2	823.2	735.0	651.7	597.8	583.1
80°	602.7	622.3	661.5	661.5	661.5	637.0	573.3	485.1	431.2	382.2	372.4
82.5°	421.4	441.0	480.2	460.6	455.7	426.3	387.1	318.5	259.7	225.4	215.6
85°	147.0	161.7	196.0	235.2	249.9	245.0	220.5	176.4	137.2	112.7	102.9
87.5°	34.3	34.3	39.2	34.3	34.3	39.2	34.3	34.3	34.3	24.5	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)