

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: P453881

Luminaire Tested: **GALN-SA5A-722-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-722-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13926 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

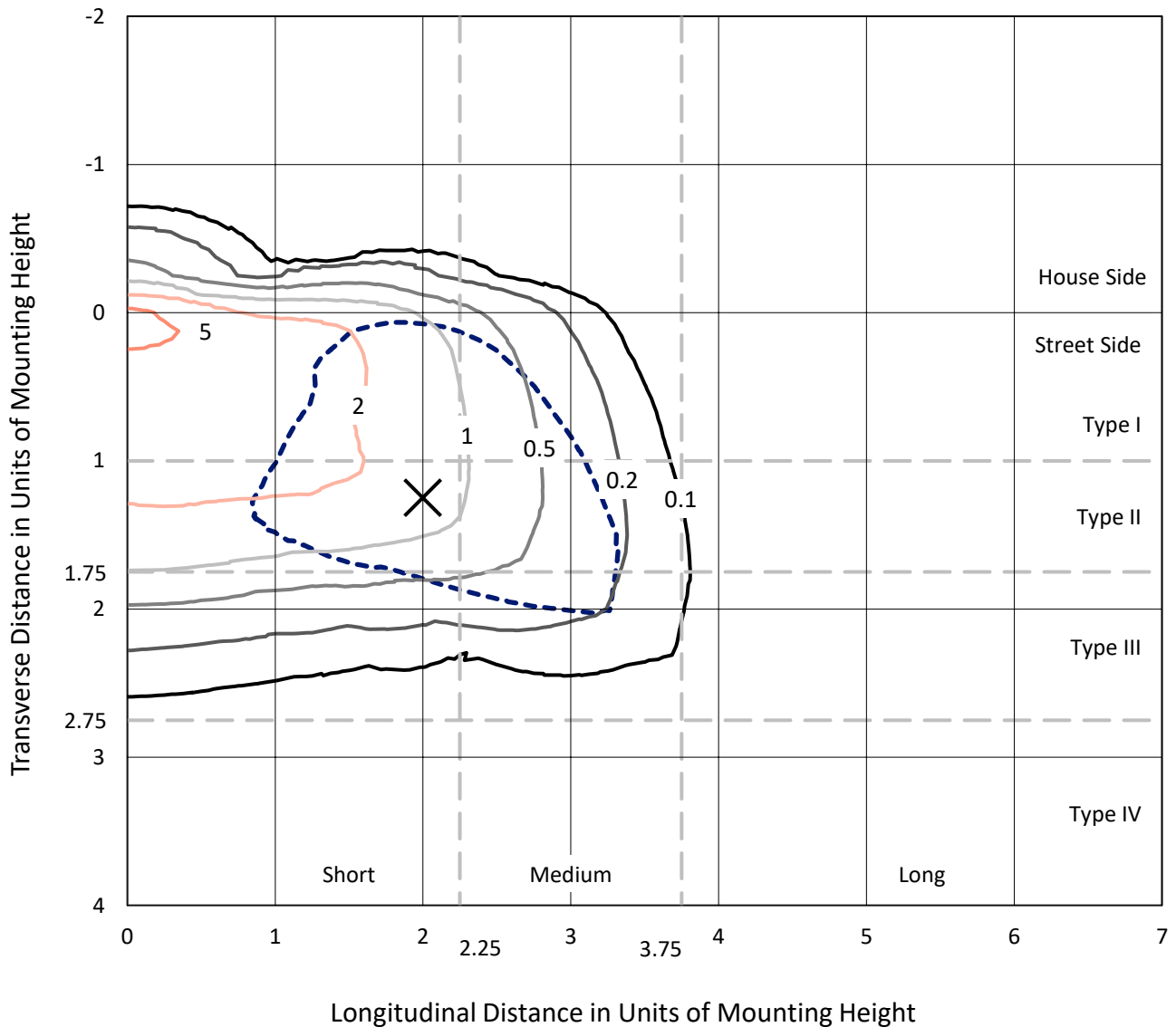
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

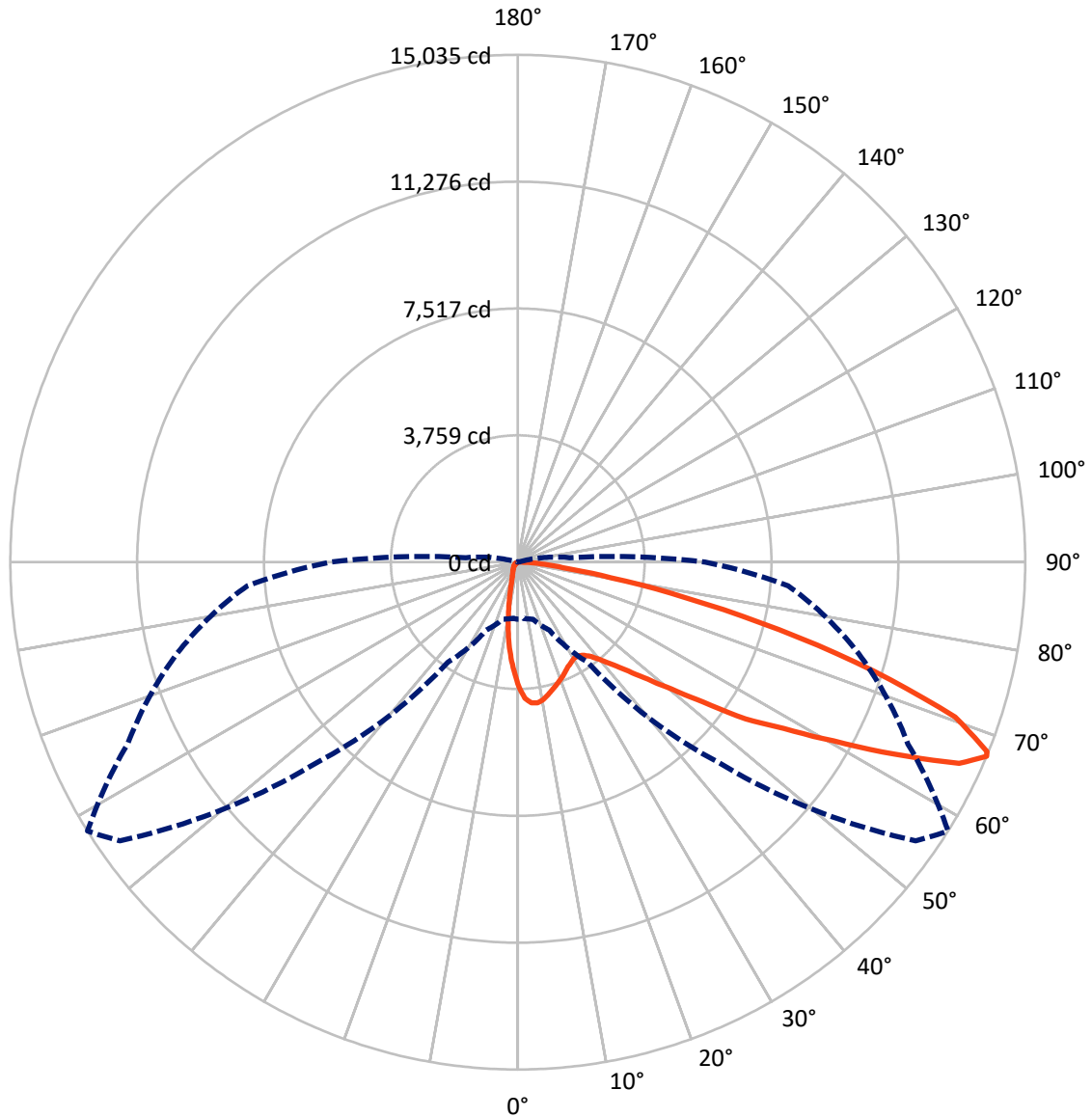
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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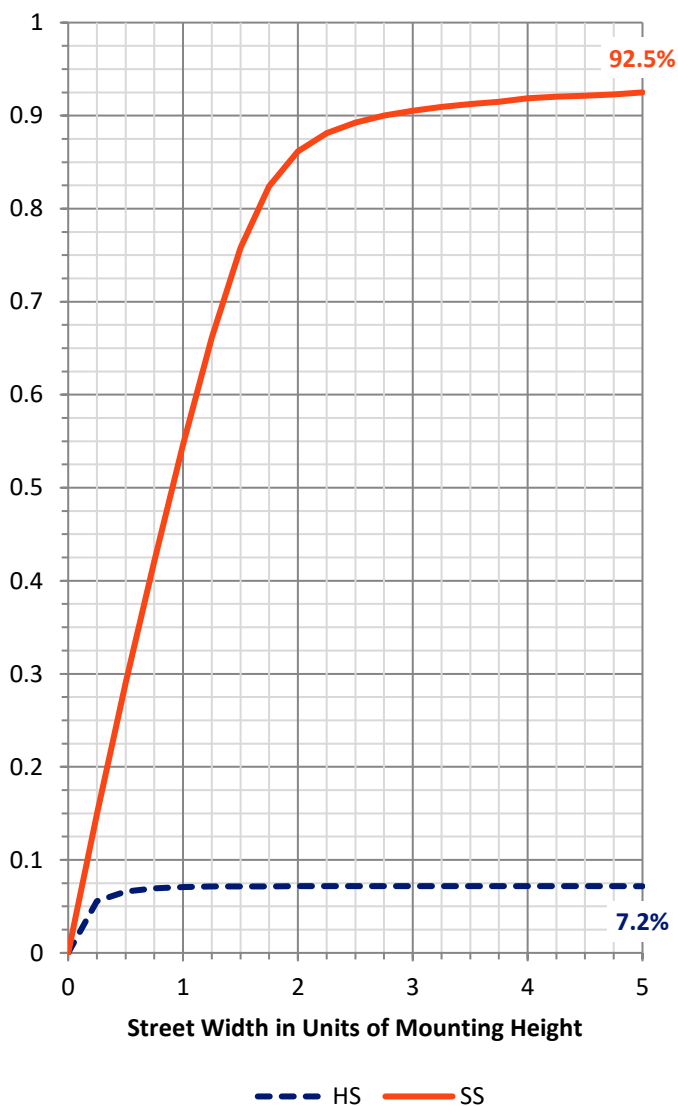
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1005.0	0.0	1005.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	12921.0	0.0	12921.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	13926.0	0.0	13926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.6	2.2
10°-20°	647.0	4.6
20°-30°	876.7	6.3
30°-40°	1216.0	8.7
40°-50°	1939.3	13.9
50°-60°	3352.3	24.1
60°-70°	3829.4	27.5
70°-80°	1596.5	11.5
80°-90°	169.3	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°	13926.0	100.0
0°-180°	13926.0	100.0

**Coefficient of Utilization**



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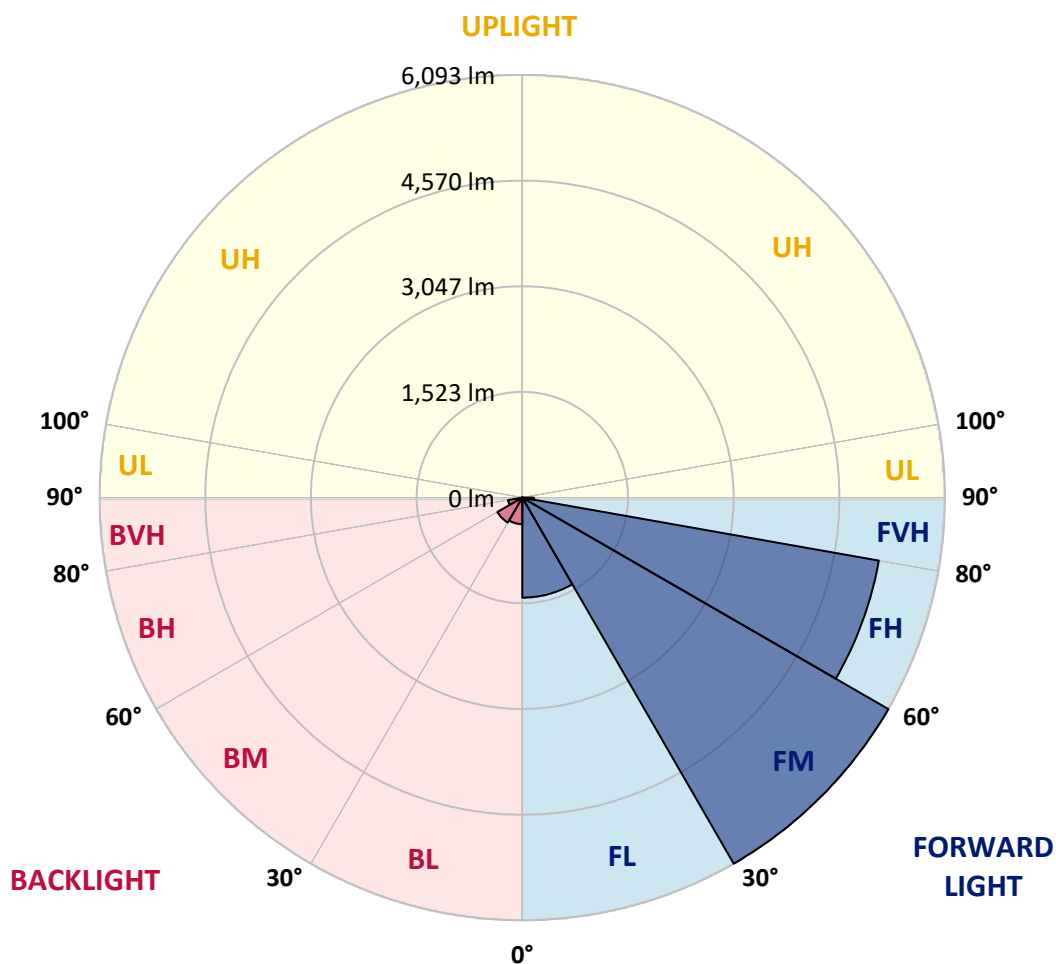
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.7	10.4			
FM (30°-60°)	6093.2	43.8			
FH (60°-80°)	5218.1	37.5			G3/7500
FVH (80°-90°)	168.0	1.2			G2/225
BL (0°-30°)	381.6	2.7	B1/500		
BM (30°-60°)	414.4	3.0	B1/1000		
BH (60°-80°)	207.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7
2.5°	4284.4	4291.0	4266.8	4247.2	4197.0	4143.0	4071.3	4033.2	3968.0	3855.4	3730.7
5°	4384.9	4393.3	4389.6	4384.9	4365.4	4313.3	4222.1	4188.6	4092.7	3909.4	3684.2
7.5°	4161.6	4192.3	4196.0	4232.3	4266.8	4271.4	4237.0	4211.9	4123.4	3908.5	3601.4
10°	3865.7	3886.1	3915.9	3957.8	4040.6	4109.5	4143.0	4139.3	4088.1	3879.6	3504.6
12.5°	3567.0	3578.1	3623.7	3695.4	3796.8	3914.1	4003.4	4021.1	4022.0	3845.2	3423.6
15°	3310.1	3305.5	3340.8	3423.6	3566.0	3713.1	3873.1	3901.0	3945.7	3811.7	3348.3
17.5°	3090.5	3114.7	3120.3	3211.5	3342.7	3533.5	3737.3	3786.6	3875.9	3782.9	3285.9
20°	2954.6	2967.7	2979.8	3030.9	3149.1	3350.1	3609.8	3677.7	3810.8	3756.8	3216.1
22.5°	2914.6	2923.0	2912.8	2928.6	3012.3	3191.0	3471.1	3561.4	3748.4	3732.6	3159.4
25°	2945.3	2953.7	2929.5	2910.9	2939.7	3061.6	3337.1	3446.9	3698.2	3727.9	3116.5
27.5°	3019.8	3035.6	3002.1	2968.6	2951.8	2991.9	3231.9	3359.4	3663.7	3750.3	3097.0
30°	3136.1	3145.4	3120.3	3079.3	3041.2	3001.2	3177.0	3298.9	3654.4	3802.4	3095.1
32.5°	3262.7	3282.2	3268.2	3241.2	3191.9	3097.0	3192.9	3300.8	3676.8	3877.8	3118.4
35°	3419.0	3441.3	3454.4	3448.8	3385.5	3267.3	3293.4	3384.6	3736.3	4016.4	3181.7
37.5°	3572.5	3592.1	3665.6	3690.7	3634.9	3523.2	3488.8	3549.3	3867.5	4197.9	3296.2
40°	3748.4	3774.5	3877.8	3973.6	3946.6	3829.4	3766.1	3816.4	4068.5	4471.5	3513.0
42.5°	3916.9	3963.4	4120.7	4290.0	4315.2	4183.9	4142.1	4158.8	4366.3	4865.1	3815.4
45°	4156.0	4199.8	4402.6	4632.5	4750.7	4648.3	4605.5	4602.7	4774.9	5418.8	4305.8
47.5°	4501.3	4540.4	4779.5	5006.6	5216.9	5230.9	5149.9	5177.8	5288.5	6066.5	4907.0
50°	4924.7	5016.8	5174.1	5410.5	5691.5	5918.6	5943.7	5906.5	6001.4	6816.6	5629.1
52.5°	5539.8	5575.2	5719.4	5913.9	6243.3	6628.6	6927.3	6876.1	6846.4	7531.3	6358.7
55°	5998.6	6046.1	6270.3	6537.4	7020.4	7528.5	8176.2	8193.9	7817.9	8218.0	7072.5
57.5°	5859.9	5932.5	6272.2	6809.1	7870.9	8799.7	9281.7	9293.8	8716.8	8885.3	7878.4
60°	5148.0	5182.5	5669.2	6385.7	7943.5	10176.9	10849.8	10752.0	9631.6	9631.6	8590.3
62.5°	3650.7	3704.7	4099.3	5153.6	7173.9	10655.3	12727.7	12525.8	10891.6	10345.4	9014.6
65°	2333.0	2280.9	2542.4	3253.3	5344.4	9948.9	14362.7	14374.8	12077.2	10631.1	8782.9
67°	1690.0	1669.5	1744.9	2224.1	3623.7	8363.2	14397.2	15034.6	12758.4	10450.5	8042.2
67.5°	1545.7	1561.5	1616.4	2006.4	3292.4	7610.4	14240.8	14995.5	12912.0	10341.7	7774.2
70°	1171.6	1144.6	1204.2	1419.2	1973.8	4800.9	12250.3	13753.2	12721.2	9261.2	6211.7
72.5°	861.7	858.9	941.8	1160.4	1519.7	2557.3	9196.1	11027.5	10392.8	7052.0	3911.3
75°	581.6	607.7	739.8	969.7	1377.3	1658.3	6269.4	8000.3	7214.9	4004.3	1598.8
77.5°	331.3	333.2	476.5	778.9	1236.8	1334.5	3714.9	5096.8	3819.1	1331.7	474.6
80°	143.3	157.3	236.4	565.8	1025.5	1181.9	2130.1	2801.1	1544.8	282.0	153.5
82.5°	53.0	62.3	104.2	348.0	748.2	973.4	1287.0	1337.3	523.9	99.6	95.9
85°	0.0	1.9	38.2	162.9	389.9	434.6	859.9	792.9	231.7	47.5	62.3
87.5°	0.0	0.0	0.0	16.8	51.2	161.9	267.1	297.8	55.8	16.8	14.9
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°	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7	3691.7
2.5°	3663.7	3603.2	3451.6	3299.9	3187.3	3093.3	2951.8	2874.6	2833.6	2773.2	2776.9
5°	3571.6	3448.8	3181.7	2905.3	2682.0	2464.2	2203.6	2098.5	2010.1	1959.8	1926.3
7.5°	3434.8	3253.3	2857.8	2489.3	2145.9	1765.3	1479.6	1288.9	1160.4	1113.0	1067.4
10°	3285.0	3044.0	2529.3	2018.5	1542.0	1149.3	907.3	732.4	670.0	612.3	617.9
12.5°	3146.3	2853.2	2227.8	1593.2	1080.4	730.5	569.5	497.9	477.4	470.9	470.9
15°	3032.8	2670.8	1904.0	1197.7	740.8	524.9	456.0	436.4	429.0	427.1	427.1
17.5°	2911.8	2497.7	1611.8	885.0	538.8	439.2	416.0	402.9	400.2	398.3	398.3
20°	2803.9	2323.7	1334.5	658.9	435.5	395.5	380.6	372.2	369.4	367.6	368.5
22.5°	2701.5	2169.2	1073.9	497.9	383.4	360.1	345.2	336.9	331.3	326.6	327.6
25°	2610.3	2020.3	863.6	407.6	345.2	324.8	309.9	297.8	285.7	280.1	279.2
27.5°	2546.1	1890.0	672.8	349.0	310.8	288.5	269.9	255.0	239.2	230.8	228.9
30°	2493.1	1757.9	532.3	308.0	276.4	255.0	231.7	210.3	193.6	185.2	181.5
32.5°	2458.6	1632.3	419.7	274.5	247.5	221.5	195.4	174.0	155.4	147.0	145.2
35°	2453.0	1527.1	343.4	246.6	221.5	193.6	166.6	143.3	127.5	119.1	117.3
37.5°	2493.1	1446.1	287.6	224.3	200.1	169.4	139.6	118.2	104.2	97.7	96.8
40°	2600.1	1395.0	249.4	205.7	180.5	147.0	119.1	100.5	86.5	80.0	80.0
42.5°	2803.9	1396.8	224.3	188.0	161.0	125.6	101.4	83.8	71.7	66.1	64.2
45°	3122.1	1460.1	202.9	170.3	142.4	108.9	86.5	68.9	56.8	52.1	52.1
47.5°	3548.3	1585.7	184.3	152.6	125.6	93.1	73.5	55.8	45.6	40.9	40.9
50°	4105.8	1787.7	168.4	137.7	111.7	80.0	59.6	45.6	35.4	31.6	30.7
52.5°	4688.3	2037.1	149.8	124.7	95.9	67.9	48.4	35.4	27.0	24.2	23.3
55°	5331.4	2280.9	132.1	111.7	78.2	56.8	38.2	27.9	19.5	16.8	16.8
57.5°	5980.0	2520.0	110.7	93.1	61.4	41.9	29.8	20.5	13.0	10.2	10.2
60°	6529.0	2597.3	94.0	75.4	46.5	29.8	21.4	13.0	7.4	4.7	4.7
62.5°	6604.4	2336.7	79.1	57.7	33.5	20.5	11.2	7.4	2.8	1.9	1.9
65°	6194.9	1898.4	66.1	43.7	22.3	10.2	4.7	2.8	0.9	0.0	0.0
67°	5551.0	1539.2	54.0	32.6	15.8	6.5	2.8	0.9	0.0	0.0	0.0
67.5°	5386.3	1467.5	52.1	30.7	14.0	5.6	1.9	0.9	0.0	0.0	0.0
70°	4226.7	1099.0	37.2	18.6	8.4	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	2627.1	621.6	27.0	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0
75°	992.9	217.8	18.6	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	309.0	82.8	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.2	31.6	7.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	64.2	13.0	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.0	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	1.9	0.9	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

(END OF REPORT)