

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: P652035

Luminaire Tested: **GALN-SA7A-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26728.7 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

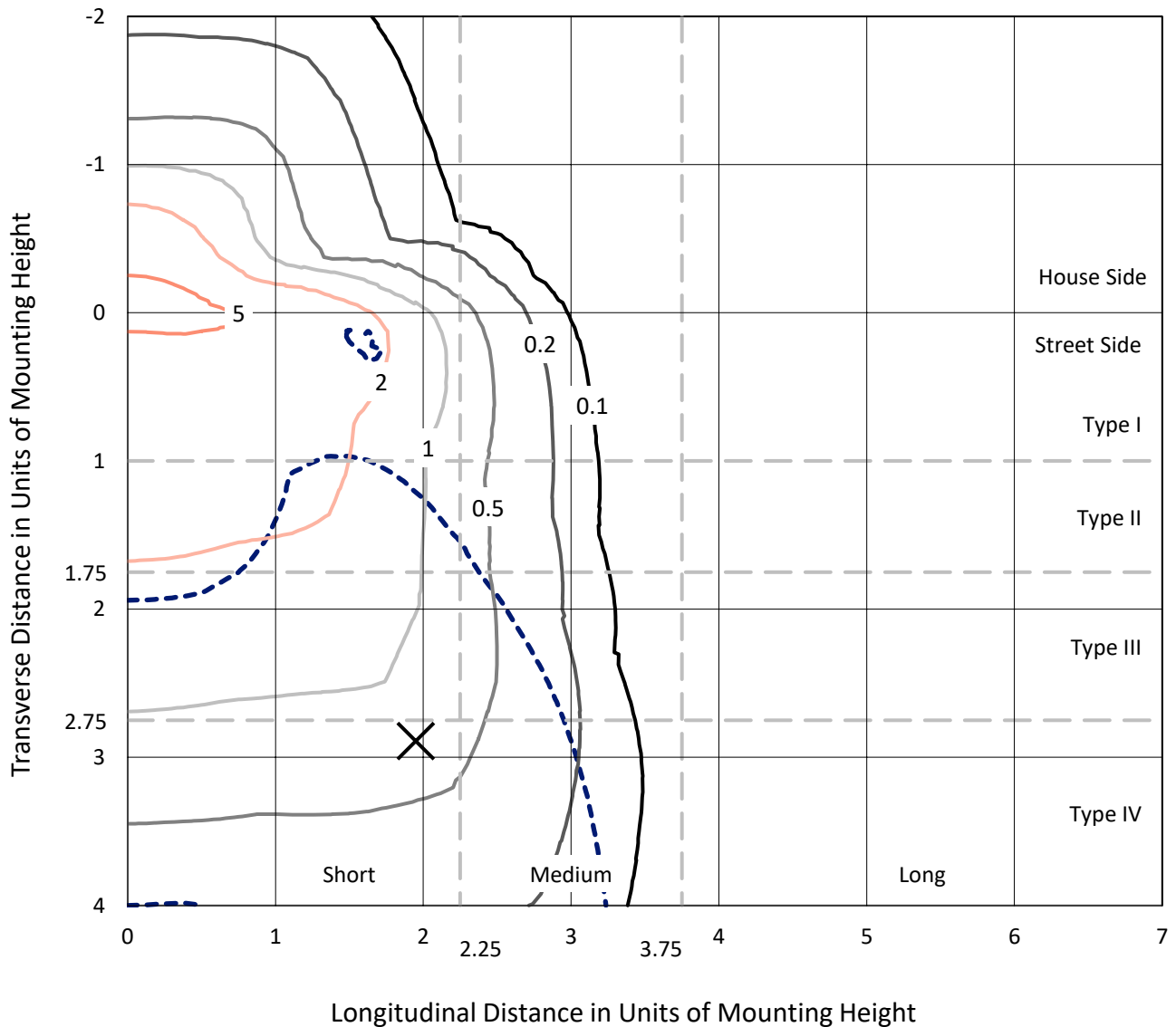
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

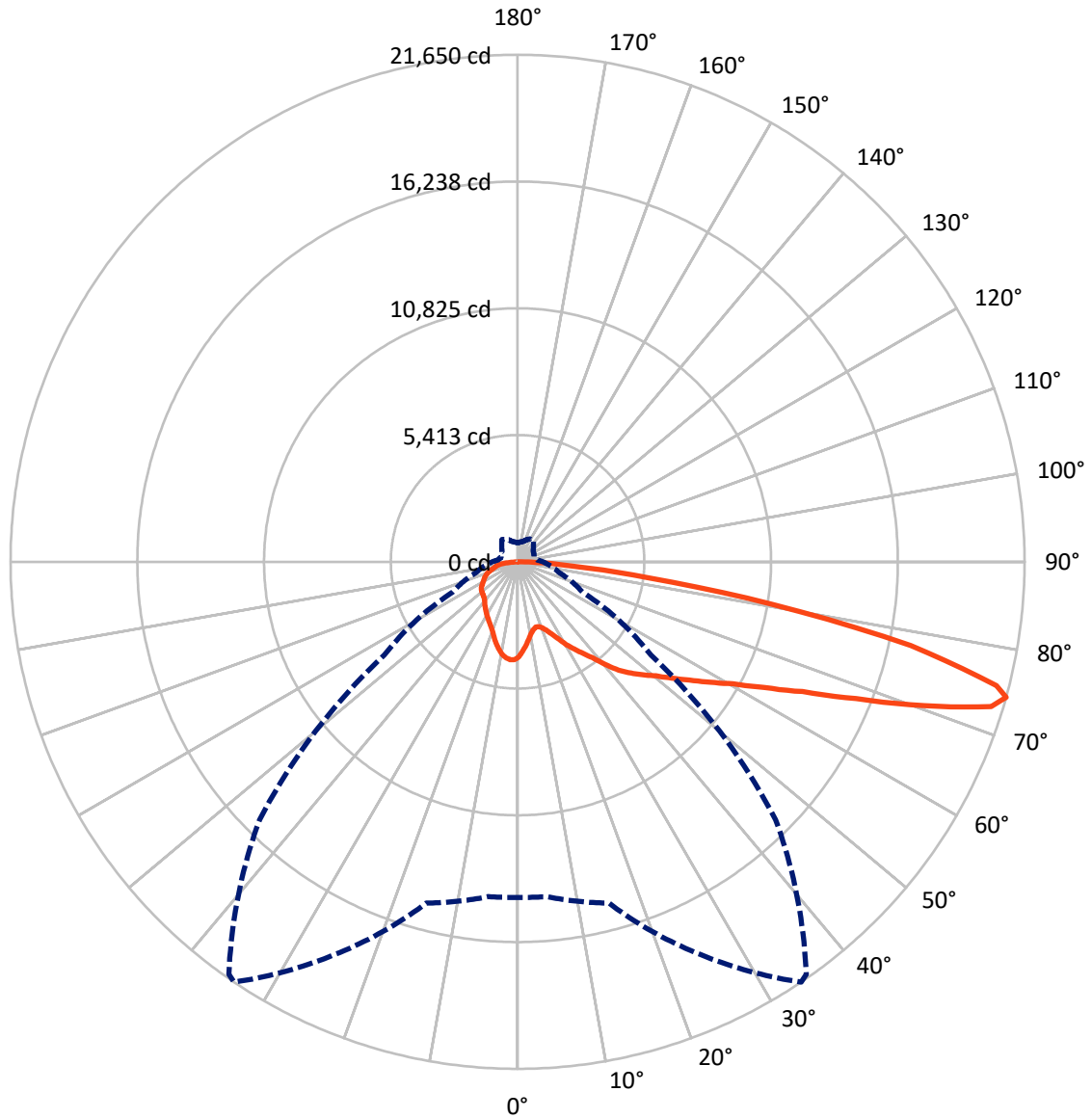
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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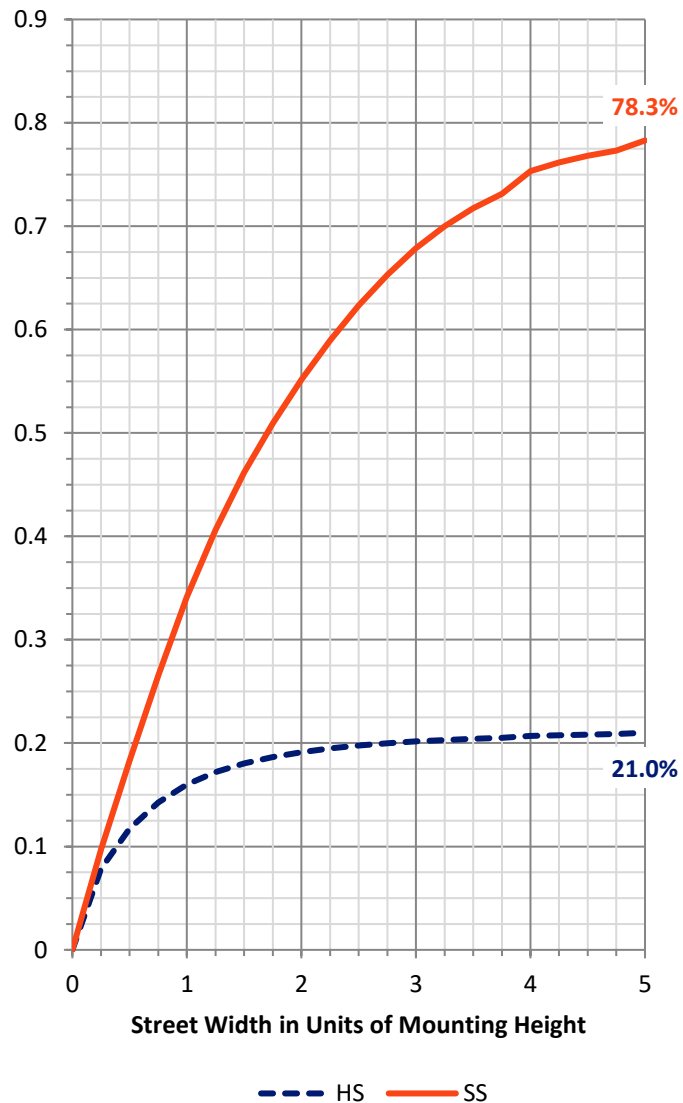
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5688.0	0.0	5688.0
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	21040.6	0.0	21040.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	26728.7	0.0	26728.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.1	1.4
10°-20°	1016.0	3.8
20°-30°	1675.1	6.3
30°-40°	2509.1	9.4
40°-50°	3647.6	13.6
50°-60°	5094.8	19.1
60°-70°	6378.4	23.9
70°-80°	5274.4	19.7
80°-90°	762.1	2.9
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°	26728.7	100.0
0°-180°	26728.7	100.0

**Coefficient of Utilization**

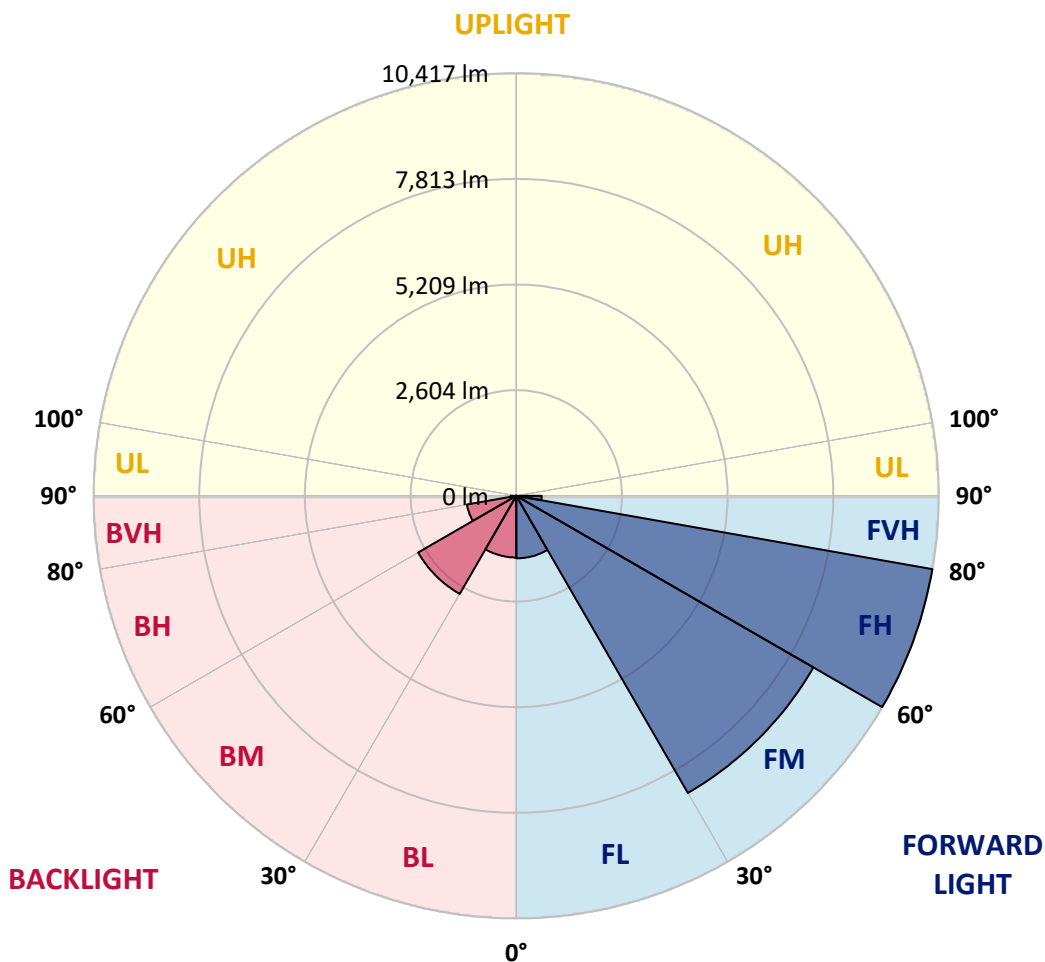


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.8	5.8			
FM (30°-60°)	8458.1	31.6			
FH (60°-80°)	10417.4	39.0			G4/12000
FVH (80°-90°)	624.4	2.3			G4/750
BL (0°-30°)	1521.5	5.7	B3/2500		
BM (30°-60°)	2793.4	10.5	B3/5000		
BH (60°-80°)	1235.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	137.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	3771.5	3790.7	3801.1	3838.1	3847.0	3858.8	3890.0	3931.4	3984.7	4032.1	4073.6
5°	3457.5	3487.1	3505.0	3537.5	3601.2	3607.1	3690.1	3784.8	3892.9	3993.6	4076.5
7.5°	3159.9	3192.5	3207.3	3266.5	3351.0	3364.3	3485.7	3635.2	3815.9	3968.4	4095.8
10°	2936.4	2952.6	2985.2	3029.6	3130.3	3139.2	3297.6	3497.6	3731.5	3956.6	4128.3
12.5°	2814.9	2823.8	2831.2	2878.6	2977.8	2991.1	3156.9	3383.5	3664.8	3965.4	4181.6
15°	2832.7	2835.6	2803.1	2812.0	2891.9	2911.1	3075.5	3308.0	3623.4	3987.7	4261.6
17.5°	2982.2	2971.8	2891.9	2850.4	2906.7	2915.6	3059.2	3278.4	3604.1	4029.1	4344.5
20°	3217.7	3202.9	3065.1	2973.4	3005.9	3013.3	3112.5	3300.6	3623.4	4097.3	4473.4
22.5°	3510.8	3505.0	3296.1	3185.1	3183.6	3183.6	3235.4	3380.6	3681.1	4190.5	4608.1
25°	3921.0	3890.0	3617.5	3473.8	3433.9	3430.9	3425.0	3512.4	3755.1	4289.7	4768.0
27.5°	4341.6	4288.3	4045.4	3824.8	3738.9	3728.5	3690.1	3698.9	3849.9	4402.3	4950.1
30°	4719.1	4685.0	4457.0	4212.7	4110.6	4086.8	3980.3	3931.4	4008.4	4605.1	5240.4
32.5°	5007.9	4987.1	4809.4	4587.3	4436.4	4431.9	4276.4	4236.5	4255.6	4850.9	5572.0
35°	5241.9	5249.3	5158.9	4966.4	4793.2	4768.0	4664.4	4614.0	4557.7	5206.3	5989.6
37.5°	5561.7	5577.9	5572.0	5406.2	5194.4	5200.4	5176.7	5093.8	4944.2	5603.2	6453.1
40°	5914.1	5925.9	5924.5	5860.8	5749.7	5755.6	5746.8	5652.0	5428.4	6108.1	6968.4
42.5°	6401.3	6345.0	6198.4	6262.1	6327.3	6355.4	6416.1	6325.7	6019.2	6647.1	7452.6
45°	6946.2	6839.6	6507.9	6537.5	6778.9	6832.2	7166.8	7042.4	6660.4	7266.0	8022.7
47.5°	7289.7	7184.6	6904.7	6898.8	7218.6	7270.4	7862.8	7816.8	7243.8	7933.8	8718.6
50°	7596.2	7581.4	7266.0	7341.5	7653.9	7731.0	8620.9	8577.9	7825.8	8721.6	9476.8
52.5°	8050.8	7930.9	7679.2	7834.7	8247.8	8348.4	9373.1	9247.3	8360.3	9417.5	10212.7
55°	8255.2	8227.0	8212.2	8347.0	8914.1	8986.7	10104.6	9815.9	8816.4	10006.9	10772.5
57.5°	8801.6	8749.8	8896.4	8988.1	9698.9	9809.9	10868.7	10409.6	9216.2	10474.8	11044.9
60°	9509.4	9481.2	9616.0	9781.8	10575.5	10744.3	11739.4	10916.1	9537.5	10710.2	10895.3
62.5°	10566.6	10563.6	10538.5	10893.9	11817.8	11973.3	12738.9	11409.2	9587.8	10534.0	10122.4
65°	12082.9	12029.6	11810.4	12198.4	13363.7	13545.9	13779.9	11684.6	9284.3	9629.3	8523.2
67.5°	13668.8	13665.8	13488.1	13991.5	15583.4	15771.4	15081.4	11623.9	8441.7	7800.6	6053.3
70°	14983.7	14920.0	15146.6	16488.1	18419.0	18636.6	16220.1	10908.7	6724.0	5151.5	3596.7
72.5°	15299.1	15302.0	15773.0	18413.1	21142.1	21176.1	16630.3	8841.5	4500.0	2841.6	1799.1
74°	14327.7	14352.8	15082.9	18509.3	21650.0	21496.0	15581.9	6949.2	3042.9	1855.4	1297.2
75°	13078.0	12919.5	13975.3	17868.1	21122.9	20957.0	14354.4	5576.5	2321.8	1482.3	1135.8
77.5°	6992.1	7153.5	8782.3	13334.1	17160.4	16969.4	9733.0	2674.2	1254.2	1032.1	817.4
80°	2489.1	2745.3	3858.8	6977.3	11002.0	11061.2	4645.1	1226.1	882.5	761.1	577.5
82.5°	1015.8	1043.9	1656.9	3096.2	5586.8	5640.2	1896.9	728.6	630.8	524.2	345.0
85°	396.9	408.7	732.9	1391.9	2384.0	2539.5	656.0	385.0	388.0	300.6	176.2
87.5°	133.3	151.0	300.6	463.5	810.0	793.7	191.0	114.0	139.2	130.3	54.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4094.2	4122.4	4141.7	4162.4	4181.6	4187.6	4183.1	4196.4	4197.9	4199.4	4200.9
5°	4118.0	4156.5	4193.5	4214.2	4223.1	4215.7	4190.5	4177.2	4165.3	4156.5	4159.4
7.5°	4150.5	4205.3	4239.4	4248.2	4224.6	4190.5	4128.3	4079.4	4048.3	4027.6	4026.1
10°	4200.9	4254.2	4282.3	4257.1	4192.0	4109.0	4011.3	3919.6	3849.9	3829.2	3827.7
12.5°	4264.5	4325.3	4323.7	4249.7	4135.7	3987.7	3829.2	3722.6	3627.8	3580.5	3599.7
15°	4347.5	4393.4	4350.4	4217.2	4036.5	3833.6	3638.2	3493.1	3386.5	3336.2	3339.1
17.5°	4443.8	4483.7	4369.7	4159.4	3897.4	3636.7	3410.2	3272.4	3188.1	3151.1	3148.0
20°	4563.7	4575.5	4369.7	4058.8	3718.1	3407.2	3191.0	3094.8	3047.4	3028.1	3034.1
22.5°	4692.5	4668.8	4346.0	3916.5	3482.7	3167.3	3022.2	2979.2	2955.6	2952.6	2955.6
25°	4837.6	4771.0	4297.1	3724.1	3236.9	2960.0	2875.6	2883.0	2887.5	2887.5	2897.8
27.5°	5015.3	4882.0	4215.7	3481.2	2949.6	2767.5	2743.8	2795.7	2819.4	2823.8	2831.2
30°	5249.3	5003.4	4081.0	3177.7	2705.3	2594.2	2635.7	2705.3	2732.0	2748.3	2745.3
32.5°	5527.6	5136.7	3898.8	2874.1	2508.4	2472.9	2523.2	2594.2	2623.9	2632.8	2620.9
35°	5854.9	5287.8	3658.9	2589.9	2336.6	2357.3	2416.6	2438.8	2465.5	2465.5	2471.4
37.5°	6207.3	5409.1	3365.8	2329.2	2203.3	2278.9	2321.8	2301.1	2289.2	2274.4	2281.8
40°	6565.6	5499.5	2985.2	2071.6	2070.1	2197.4	2209.3	2150.0	2102.7	2087.9	2080.5
42.5°	6878.0	5555.7	2641.7	1871.6	1944.2	2117.5	2126.4	2031.6	1956.1	1911.7	1896.9
45°	7246.8	5620.9	2305.5	1705.8	1827.2	2053.8	2076.0	1948.7	1837.6	1744.3	1720.6
47.5°	7751.7	5769.0	2040.4	1577.0	1742.8	2013.8	2044.9	1880.6	1734.0	1612.5	1593.3
50°	8321.8	5971.9	1834.6	1489.7	1677.7	1978.3	2016.8	1810.9	1637.7	1503.0	1488.1
52.5°	8844.5	6081.4	1656.9	1411.1	1614.0	1913.1	1979.8	1760.6	1542.9	1393.4	1380.1
55°	9130.3	5903.7	1482.3	1334.2	1526.7	1828.8	1927.9	1691.0	1451.1	1335.6	1316.4
57.5°	9168.8	5536.5	1323.8	1251.2	1434.8	1725.1	1831.7	1606.6	1391.9	1295.6	1279.3
60°	8871.1	4988.6	1200.9	1183.1	1341.6	1608.1	1723.6	1532.6	1331.2	1251.2	1234.9
62.5°	8130.8	4393.4	1115.0	1120.9	1246.8	1485.2	1643.7	1461.5	1273.4	1202.4	1187.6
65°	6857.3	3626.3	1032.1	1057.2	1162.3	1388.9	1571.1	1402.3	1215.7	1165.4	1152.0
67.5°	4763.6	2617.9	964.0	990.6	1082.5	1291.2	1486.6	1338.6	1150.6	1123.9	1103.1
70°	2637.2	1611.0	884.0	915.1	999.5	1181.6	1391.9	1242.3	1055.8	1043.9	1014.3
72.5°	1386.0	1026.2	793.7	827.7	887.0	1041.0	1246.8	1137.2	962.5	912.1	873.6
74°	1082.5	841.1	732.9	768.5	808.5	958.1	1160.9	1061.7	895.8	836.6	807.0
75°	943.3	749.2	681.1	727.0	762.6	901.8	1094.3	1008.4	858.8	802.6	775.9
77.5°	666.3	561.2	556.7	611.6	630.8	790.7	986.2	918.0	765.6	706.4	681.1
80°	467.9	420.5	441.3	475.3	502.0	698.9	915.1	793.7	627.8	558.3	549.3
82.5°	305.0	275.4	315.4	346.5	355.4	515.3	738.9	602.7	457.6	371.6	345.0
85°	140.7	137.7	180.6	176.2	174.8	251.7	438.3	352.4	263.6	197.0	185.1
87.5°	35.6	34.1	44.4	37.0	44.4	38.5	39.9	10.3	1.5	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)