

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: P534278

Luminaire Tested: **GALN-SA9D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55754 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G4

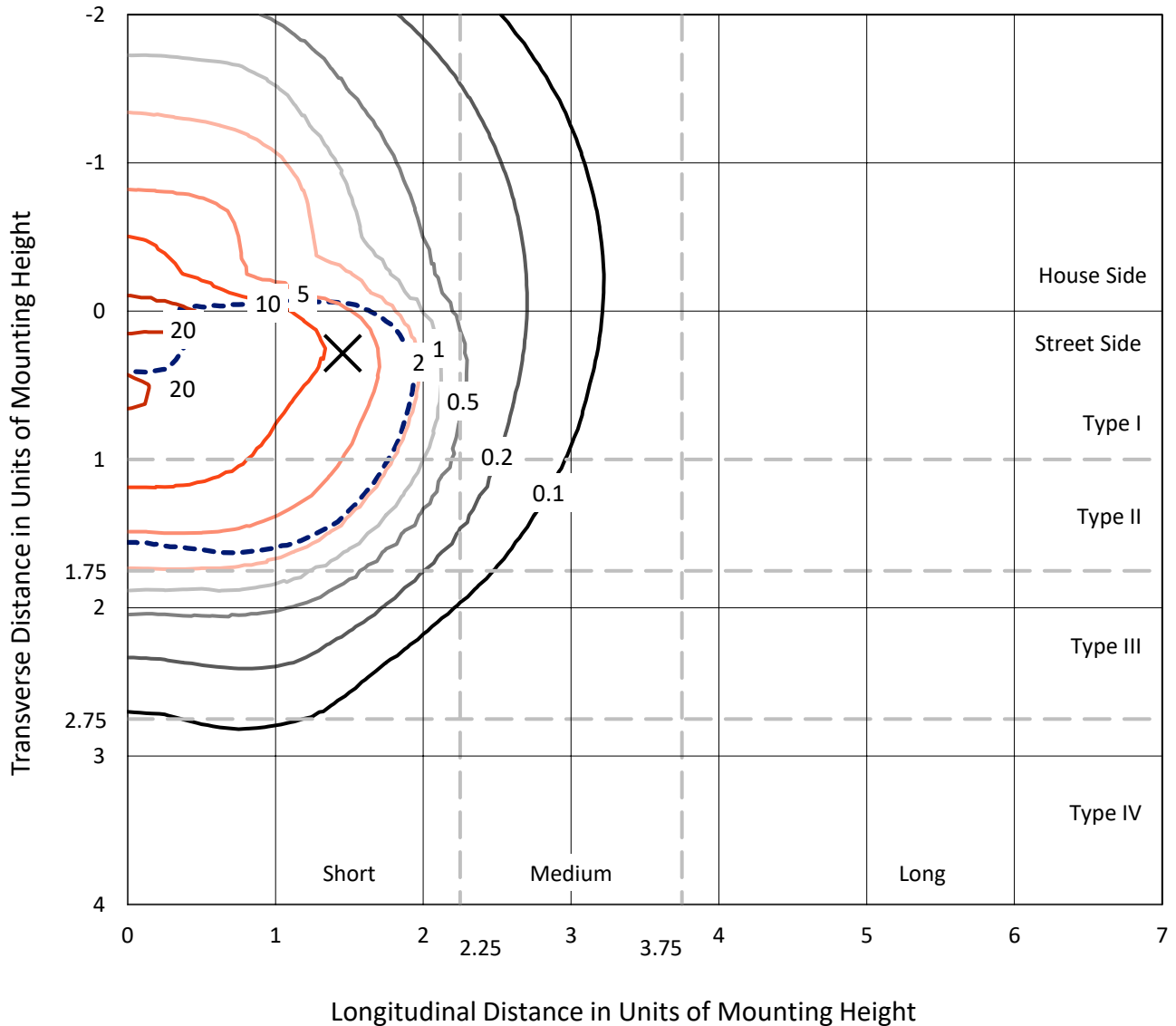
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

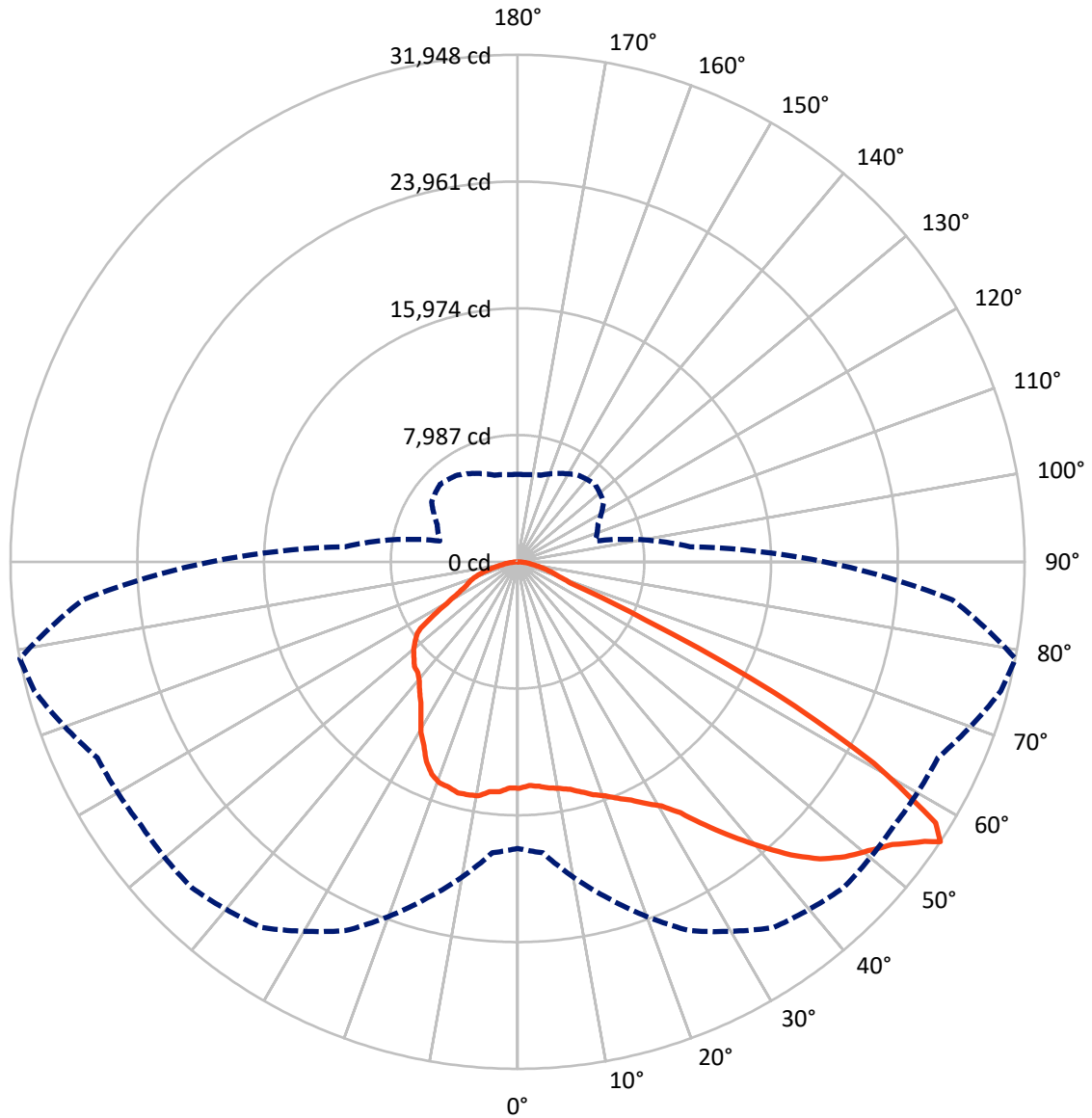
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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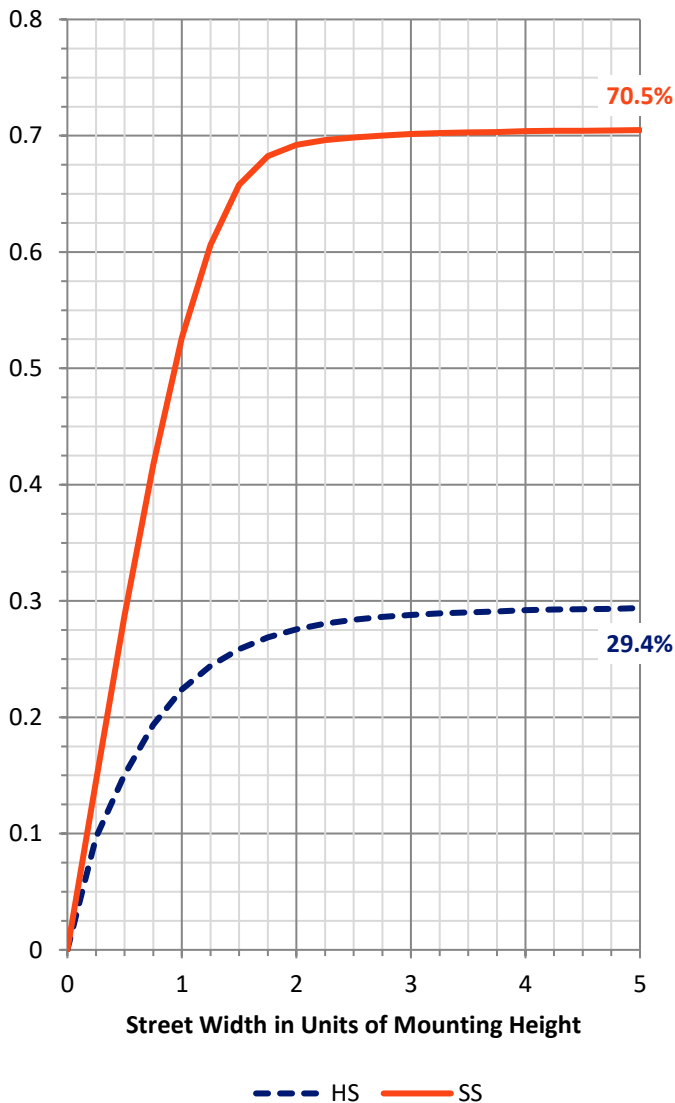
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16465.4	0.0	16465.4
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	39288.6	0.0	39288.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	55754.0	0.0	55754.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1297.0	2.3
10°-20°	3549.5	6.4
20°-30°	6072.5	10.9
30°-40°	9306.8	16.7
40°-50°	12578.1	22.6
50°-60°	14446.4	25.9
60°-70°	6585.1	11.8
70°-80°	1623.6	2.9
80°-90°	295.1	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°	55754.0	100.0
0°-180°	55754.0	100.0

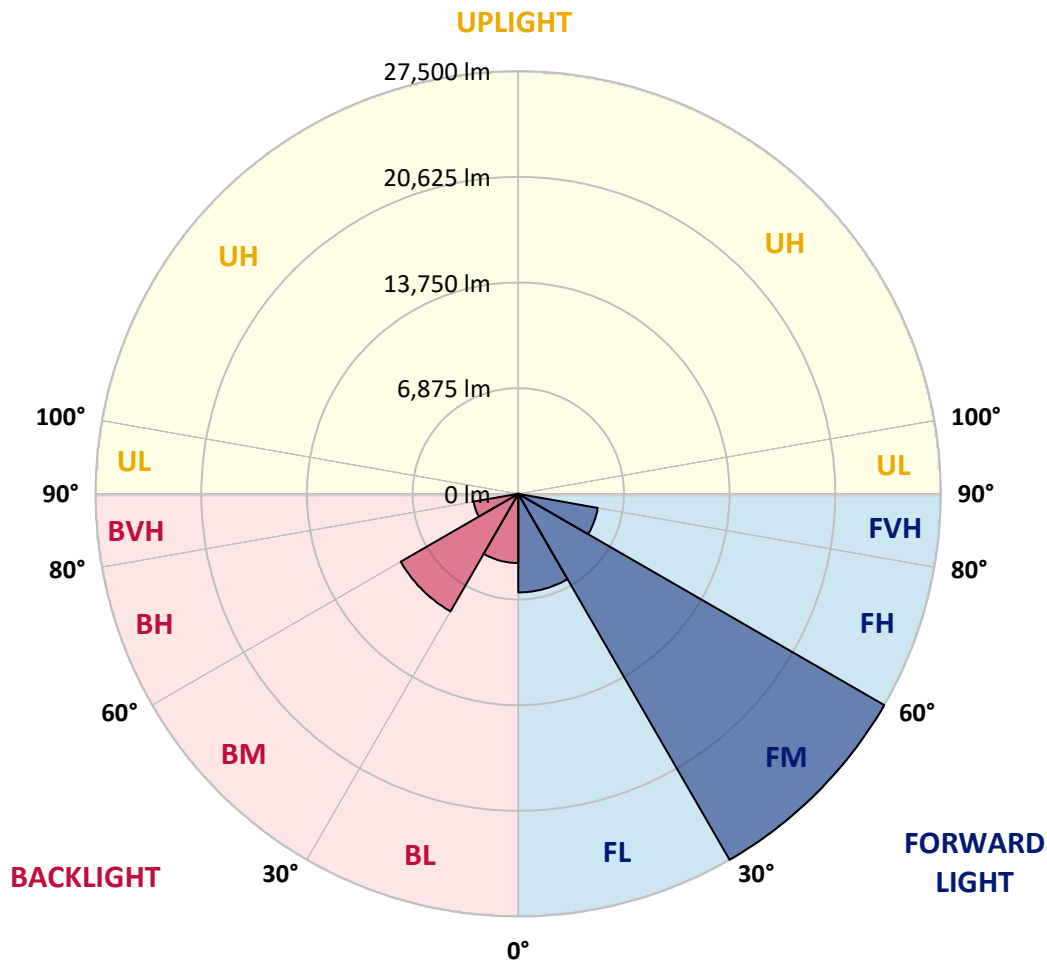


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6415.0	11.5			
FM	(30°-60°)	27499.5	49.3			
FH	(60°-80°)	5256.3	9.4			G3/7500
FVH	(80°-90°)	117.8	0.2			G2/225
BL	(0°-30°)	4504.0	8.1	B4/5000		
BM	(30°-60°)	8831.8	15.8	B5		
BH	(60°-80°)	2952.3	5.3	B4/5000		G4/5000
BVH	(80°-90°)	177.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2
2.5°	13570.7	13536.0	13619.3	13681.9	13758.2	13855.5	13904.1	13931.9	14175.0	14112.4	14300.0
5°	13279.0	13188.7	13251.3	13299.9	13431.8	13549.9	13681.9	13890.2	14112.4	14209.7	14438.9
7.5°	13022.1	12973.5	12959.6	12994.3	13174.9	13327.7	13556.8	13862.4	14223.6	14383.3	14515.3
10°	12598.4	12529.0	12633.1	12862.3	12910.9	13230.4	13494.3	13931.9	14244.4	14522.2	14911.1
12.5°	12410.9	12341.4	12362.3	12494.2	12834.5	13140.1	13452.7	13945.8	14605.6	14716.7	15237.6
15°	12709.5	12640.1	12660.9	12626.2	12952.6	13112.4	13605.5	14223.6	14855.6	15043.1	15598.7
17.5°	13390.2	13397.1	13306.8	13230.4	13154.0	13494.3	13834.6	14390.3	14952.8	15425.1	15841.8
20°	14688.9	14459.7	14279.1	13848.5	13730.5	13876.3	14306.9	14841.7	15348.7	15737.6	16209.9
22.5°	15689.0	15709.8	15452.9	14744.5	14487.5	14550.0	14918.1	15355.6	15911.2	16189.0	16730.8
25°	17140.5	16994.7	16716.9	16154.3	15577.9	15626.5	15897.3	16293.2	16446.0	16640.5	17230.8
27.5°	18467.0	18508.7	17960.0	17432.2	16716.9	16578.0	17064.1	17133.6	16876.6	17244.7	17446.1
30°	19814.4	19779.7	19418.5	18800.4	18098.9	18126.7	18342.0	18001.7	17647.5	17848.9	17987.8
32.5°	21210.3	20814.5	20800.6	20245.0	19710.2	19453.2	19189.3	19356.0	18807.3	18849.0	18717.1
35°	22328.5	22384.1	22064.6	21668.7	21404.8	20953.4	20231.1	20529.7	20425.5	20376.9	19807.4
37.5°	23141.1	22925.8	23085.5	22953.6	22703.5	22141.0	21390.9	21675.7	21724.3	21960.4	21300.6
40°	23807.8	23717.5	24141.2	24210.6	24037.0	22821.6	21474.3	22321.6	23050.8	23564.7	22779.9
42.5°	24127.3	24321.7	24766.2	25301.0	24912.1	23613.3	21904.9	22814.7	24439.8	25252.4	24182.8
45°	24557.9	24307.9	24967.6	25946.9	25953.8	24280.1	22321.6	23481.4	25523.3	26703.9	25141.3
47.5°	24120.3	24245.4	24926.0	26169.1	26488.6	24981.5	23446.7	24425.9	26717.8	27766.5	26030.2
50°	23141.1	23391.1	24634.3	25926.1	26891.4	25724.7	24738.5	25446.9	27822.1	28620.8	26176.1
52.5°	22120.2	22259.1	24203.7	26113.6	27072.0	26683.1	26467.8	26856.7	29169.4	29586.1	26356.7
55°	19342.1	20001.9	22779.9	26030.2	27954.0	28412.4	28245.7	28815.2	30697.4	31114.1	27342.9
56°	18057.3	18404.5	21925.7	25641.3	28127.7	29044.4	28961.1	29218.0	31509.9	31947.5	27495.7
57.5°	15682.0	15709.8	18696.2	23918.9	27474.8	29231.9	29148.6	29350.0	31350.2	31051.6	26155.3
60°	9813.4	10244.0	12723.4	18397.6	23363.3	27120.6	27592.9	25974.7	26433.1	25801.1	20349.2
62.5°	5083.8	5021.3	6667.3	10758.0	15508.4	19418.5	19856.0	19779.7	19071.3	18147.6	13292.9
65°	2535.0	2548.9	3486.4	5326.9	7945.2	10167.6	11390.0	11521.9	9639.8	8868.9	6306.2
67.5°	1840.5	1909.9	2507.2	3257.3	3743.4	4187.9	5132.4	5035.2	3812.9	3625.3	3361.4
70°	1430.7	1493.2	2034.9	2486.3	2257.2	2257.2	2458.6	2541.9	2715.5	2791.9	2882.2
72.5°	1041.8	1090.4	1555.7	1715.4	1479.3	1590.4	1840.5	2034.9	2215.5	2243.3	2347.4
75°	715.3	757.0	1020.9	944.5	889.0	1097.3	1347.3	1527.9	1659.9	1729.3	1791.8
77.5°	465.3	479.2	583.4	493.1	569.5	708.4	875.1	1027.9	1159.8	1215.4	1229.3
80°	208.4	229.2	250.0	312.5	395.9	507.0	625.1	750.1	833.4	854.2	895.9
82.5°	118.1	118.1	152.8	222.2	291.7	368.1	451.4	541.7	638.9	659.8	652.8
85°	62.5	62.5	90.3	132.0	180.6	215.3	208.4	215.3	229.2	263.9	257.0
87.5°	20.8	20.8	27.8	27.8	34.7	41.7	34.7	48.6	62.5	62.5	62.5
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°	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2	14265.2
2.5°	14244.4	14306.9	14223.6	14404.1	14404.1	14369.4	14195.8	14251.4	14293.0	14293.0	14327.7
5°	14515.3	14494.4	14550.0	14334.7	14202.7	14154.1	13869.4	13730.5	13612.4	13605.5	13501.3
7.5°	14668.1	14612.5	14591.7	14431.9	13848.5	13494.3	12883.2	12529.0	12452.6	12181.7	12285.9
10°	14911.1	15015.3	14911.1	14043.0	13230.4	12417.8	11820.6	11271.9	11056.6	10883.0	10778.8
12.5°	15411.2	15362.6	14758.3	13584.6	12445.6	11480.3	10591.3	10014.8	9799.5	9646.7	9632.9
15°	15834.8	15591.8	14668.1	12862.3	11223.3	10195.4	9466.2	9056.4	8959.2	8973.1	9035.6
17.5°	15980.7	15814.0	14195.8	12112.3	10313.5	9105.0	8764.7	8702.2	8792.5	8896.7	8924.5
20°	16209.9	15946.0	14001.3	11091.3	9188.4	8424.4	8403.6	8625.8	8792.5	8945.3	8966.1
22.5°	16689.1	16022.4	13369.3	10126.0	8417.5	8223.0	8424.4	8611.9	8868.9	8993.9	8882.8
25°	16828.0	15855.7	12480.3	8966.1	7931.3	8098.0	8313.3	8570.3	8750.8	8820.3	8868.9
27.5°	16946.1	15598.7	11278.8	8195.2	7778.5	8091.0	8313.3	8528.6	8625.8	8688.3	8743.9
30°	17279.4	15522.3	10237.1	7681.3	7681.3	7952.1	8236.9	8292.5	8424.4	8500.8	8598.0
32.5°	17446.1	14994.5	9167.5	7354.9	7584.1	8021.6	8042.4	8146.6	8153.6	8216.1	8111.9
35°	17883.6	14619.4	8174.4	7118.7	7625.7	7952.1	8056.3	7993.8	7653.5	7486.8	7521.5
37.5°	18203.1	14431.9	7459.0	7090.9	7632.7	8028.5	8084.1	7611.8	7257.6	6979.8	7049.3
40°	19064.3	13966.6	6917.3	7042.3	7695.2	8111.9	7959.1	7445.2	6806.2	6521.5	6472.8
42.5°	19724.1	13633.2	6577.0	6986.8	7743.8	8229.9	7896.6	7111.8	6458.9	6195.0	6264.5
45°	20488.1	13556.8	6396.4	7000.7	7827.1	8292.5	7820.2	6854.8	6160.3	6056.1	6035.3
47.5°	20758.9	13008.2	6202.0	6882.6	7806.3	8271.6	7563.2	6660.4	6049.2	6063.1	6118.6
50°	20307.5	12445.6	6056.1	6639.5	7667.4	8084.1	7160.4	6403.4	5986.7	6160.3	6257.5
52.5°	19731.0	11869.2	5757.5	6313.1	7382.6	7792.4	6972.9	6389.5	5924.2	5868.6	5889.4
55°	19904.7	11396.9	5340.8	5868.6	6924.3	7250.7	6764.5	6257.5	5771.4	5563.0	5632.5
56°	19342.1	10910.8	5069.9	5590.8	6611.7	6903.4	6660.4	6139.5	5646.4	5507.5	5507.5
57.5°	17751.7	9278.7	4715.7	5146.3	5952.0	6299.2	6458.9	6070.0	5507.5	5264.4	5271.3
60°	13091.5	6597.8	4229.6	4535.2	4931.0	5208.8	5952.0	5875.6	5160.2	4993.5	4931.0
62.5°	8070.2	4819.9	3882.3	4000.4	4201.8	4431.0	5194.9	5319.9	4792.1	4611.5	4569.9
65°	4521.3	3687.8	3618.4	3667.0	3764.2	3882.3	4312.9	4590.7	4229.6	3951.8	3937.9
67.5°	3305.9	3298.9	3354.5	3396.2	3437.8	3437.8	3542.0	3653.1	3604.5	3382.3	3361.4
70°	2937.8	2958.6	3000.3	3007.2	3021.1	2972.5	2889.2	2854.4	2910.0	2771.1	2743.3
72.5°	2423.8	2493.3	2541.9	2548.9	2472.5	2410.0	2298.8	2180.8	2139.1	2111.3	2104.4
75°	1861.3	1909.9	1930.7	1923.8	1896.0	1805.7	1673.8	1555.7	1479.3	1396.0	1437.6
77.5°	1257.1	1326.5	1361.2	1361.2	1319.6	1180.7	1118.2	1027.9	951.5	861.2	875.1
80°	882.0	930.6	986.2	979.3	909.8	840.4	750.1	666.7	604.2	534.8	527.8
82.5°	659.8	687.6	715.3	701.5	652.8	583.4	520.9	444.5	375.0	326.4	326.4
85°	236.1	257.0	312.5	326.4	354.2	354.2	298.6	250.0	201.4	166.7	166.7
87.5°	69.5	69.5	76.4	76.4	69.5	76.4	62.5	69.5	76.4	48.6	48.6
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)