

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: P457447

Luminaire Tested: **GALN-SA8D-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62354 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

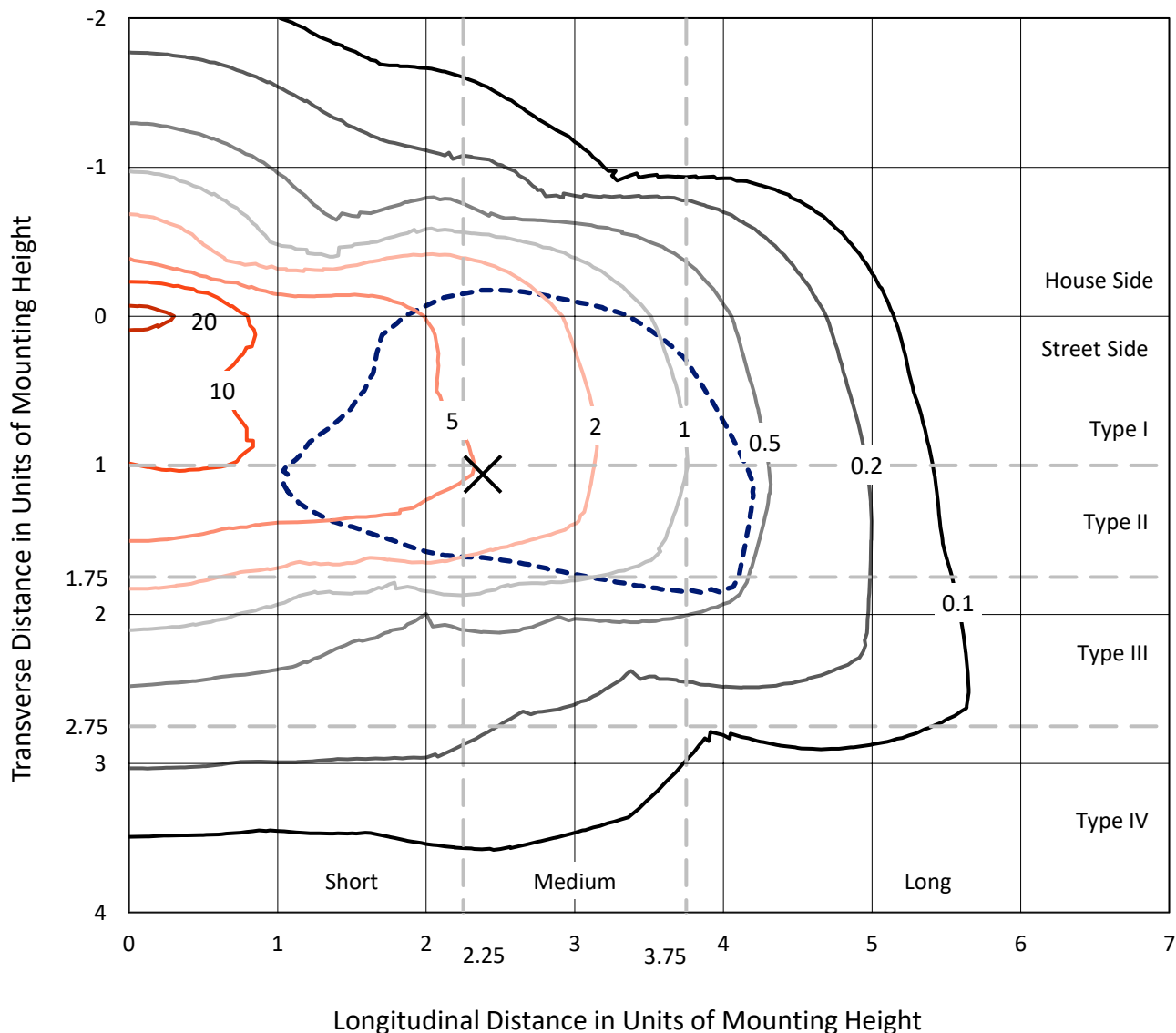
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

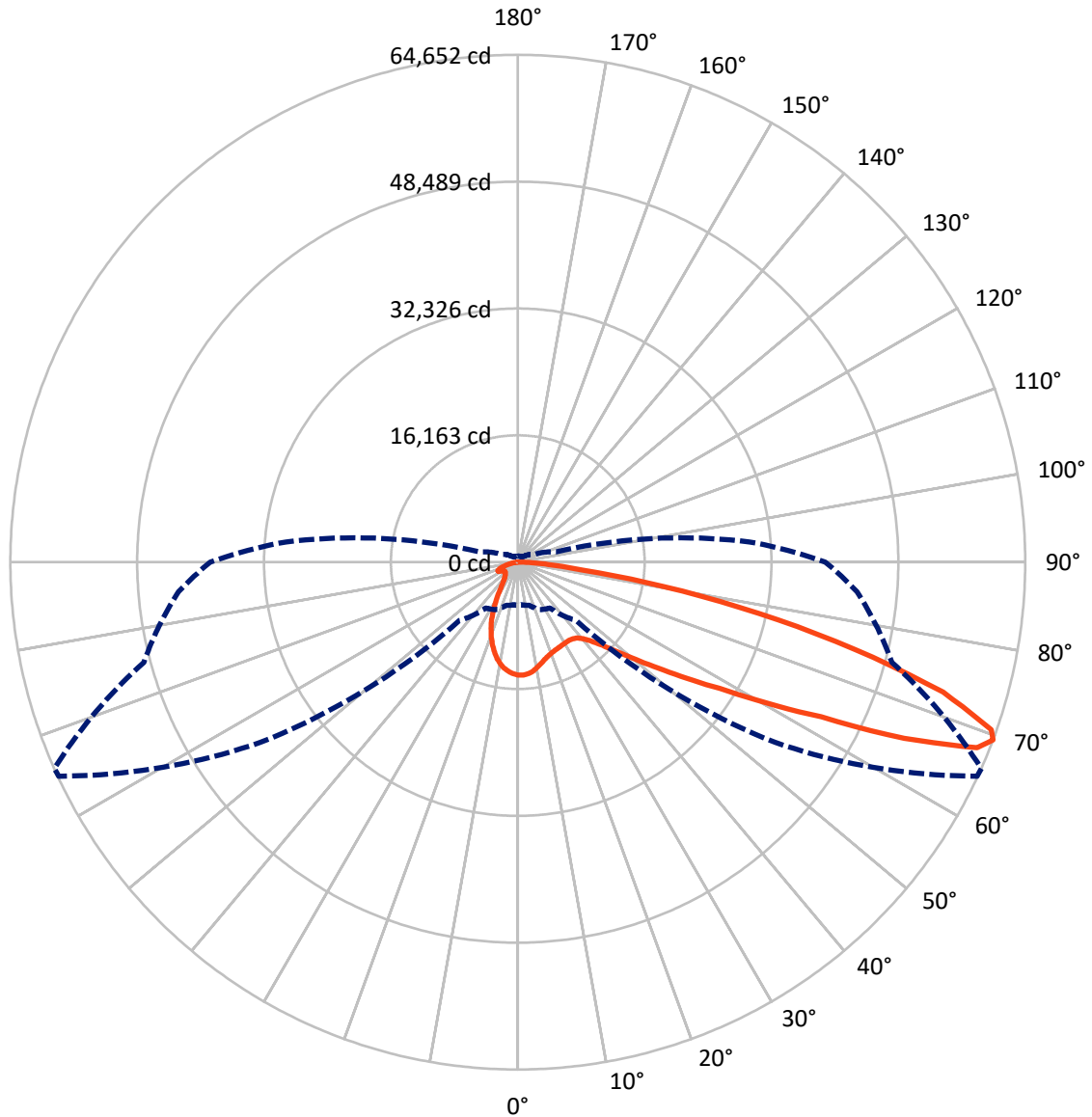
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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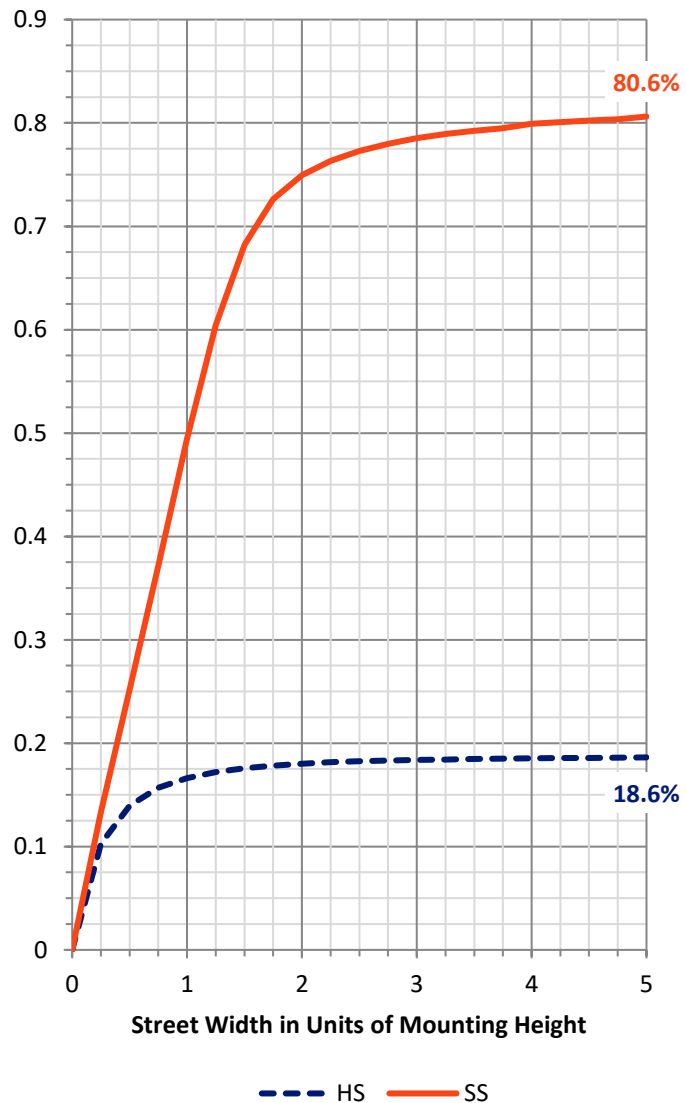
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11726.4	0.0	11726.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	50627.6	0.0	50627.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	62354.0	0.0	62354.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1250.4	2.0
10°-20°	2965.9	4.8
20°-30°	4037.7	6.5
30°-40°	5425.8	8.7
40°-50°	8101.6	13.0
50°-60°	12886.9	20.7
60°-70°	15850.1	25.4
70°-80°	10312.8	16.5
80°-90°	1522.9	2.4
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°	62354.0	100.0
0°-180°	62354.0	100.0



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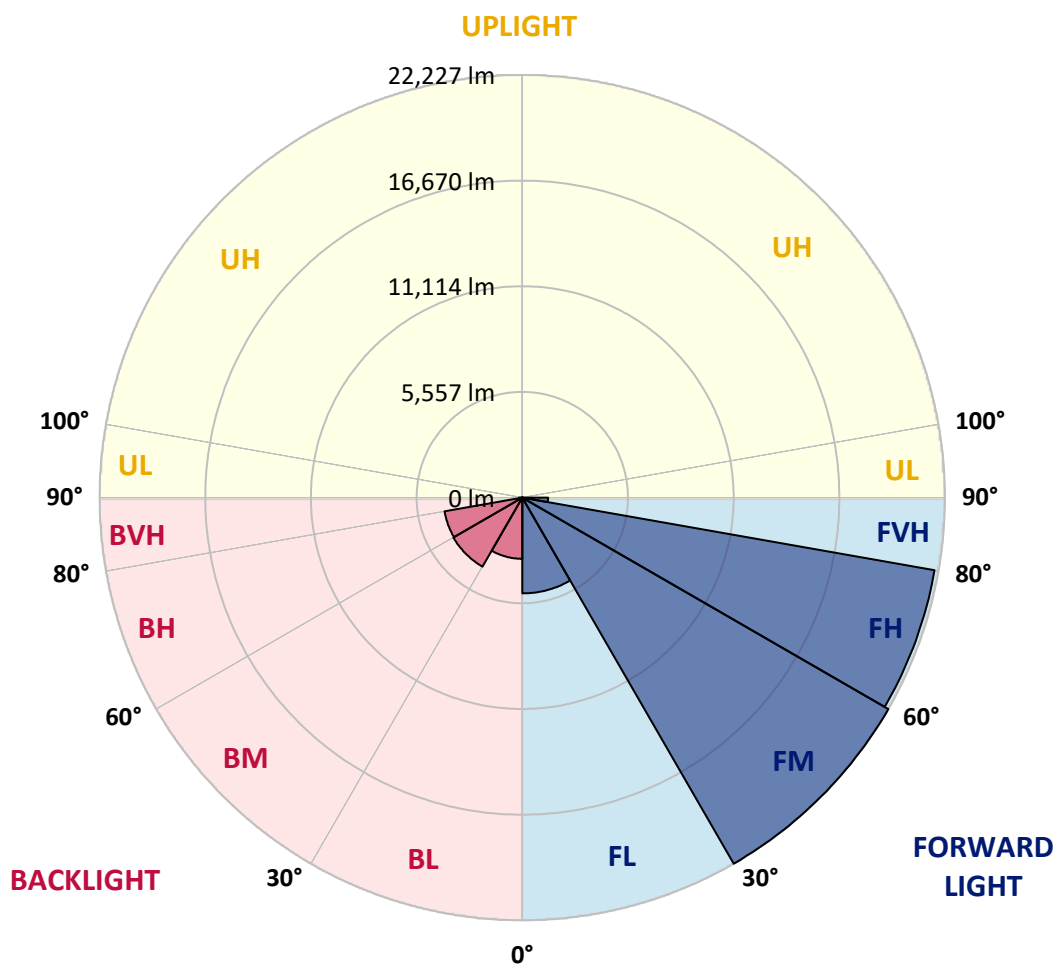
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5035.0	8.1			
FM (30°-60°)	22227.3	35.6			
FH (60°-80°)	22011.3	35.3			G5
FVH (80°-90°)	1353.9	2.2			G5
BL (0°-30°)	3219.0	5.2	B4/5000		
BM (30°-60°)	4186.9	6.7	B3/5000		
BH (60°-80°)	4151.7	6.7	B4/5000		G4/5000
BVH (80°-90°)	169.0	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-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3
2.5°	13895.1	13950.4	14012.5	14081.6	14212.8	14285.3	14337.1	14395.8	14402.7	14433.8	14409.6
5°	12869.6	12935.2	13028.4	13159.6	13356.4	13663.8	13981.5	14240.4	14271.5	14416.5	14458.0
7.5°	12013.2	12051.2	12127.2	12337.8	12617.5	12959.3	13422.1	13946.9	14022.9	14368.2	14489.1
10°	11315.7	11353.7	11443.4	11661.0	11937.2	12365.4	12873.0	13563.6	13625.8	14219.7	14496.0
12.5°	10794.3	10828.8	10925.5	11139.6	11457.3	11857.8	12417.2	13149.3	13239.0	14022.9	14430.3
15°	10397.2	10462.8	10542.2	10718.3	11053.3	11440.0	11982.1	12769.4	12841.9	13815.7	14385.5
17.5°	10228.0	10259.0	10314.3	10476.6	10721.8	11101.6	11647.2	12472.5	12558.8	13670.7	14375.1
20°	10234.9	10266.0	10276.3	10366.1	10542.2	10870.2	11408.9	12237.7	12341.2	13542.9	14392.4
22.5°	10469.7	10473.1	10435.2	10404.1	10473.1	10745.9	11239.7	12061.5	12182.4	13487.7	14406.2
25°	10832.3	10894.4	10839.2	10694.1	10566.4	10697.6	11174.1	11964.9	12078.8	13408.2	14388.9
27.5°	11419.3	11429.6	11384.7	11187.9	10856.4	10759.7	11146.5	11892.3	11989.0	13349.5	14302.6
30°	12206.6	12175.5	12134.1	11916.5	11395.1	10998.0	11205.2	11826.7	11926.9	13263.2	14199.0
32.5°	13004.2	13100.9	13062.9	12807.4	12130.6	11460.7	11395.1	11819.8	11902.7	13197.6	14085.0
35°	13850.2	13895.1	14074.7	13943.5	13249.4	12210.0	11750.8	11926.9	11992.5	13201.1	14005.6
37.5°	14513.2	14634.1	15055.4	15169.3	14516.7	13201.1	12327.4	12230.7	12258.4	13370.3	14036.7
40°	15314.3	15521.5	16063.6	16529.8	16101.6	14489.1	13308.1	12793.6	12828.1	13777.7	14240.4
42.5°	16329.5	16474.6	17203.2	17835.1	17766.0	16191.4	14496.0	13715.6	13732.8	14589.2	14810.2
45°	17517.4	17724.6	18542.9	19492.5	19654.8	18118.2	16212.1	15110.6	15100.2	15849.6	15873.7
47.5°	19036.7	19164.5	19976.0	21011.9	21668.0	20538.8	18294.3	17113.4	17002.9	17686.6	17489.8
50°	20435.2	20635.5	21250.1	22382.8	24016.1	23373.8	21032.6	19710.1	19451.1	20089.9	19758.4
52.5°	21022.2	21232.9	21750.8	23156.2	26029.2	27040.9	24509.8	22807.5	22375.8	22866.2	22745.3
55°	20003.6	20276.4	20759.8	22469.1	26913.2	31270.9	29199.1	26388.3	26074.1	25863.4	25898.0
57.5°	17265.3	17524.3	18176.9	20062.3	25856.5	34340.7	35894.6	30991.2	30317.9	29347.6	29513.3
60°	13142.4	13304.7	13643.1	15732.2	22724.6	35138.4	43498.2	36809.6	36381.5	32817.9	32935.3
62.5°	9333.6	9516.6	9751.4	10794.3	16636.9	32890.4	49451.3	44934.7	43405.0	36412.5	36298.6
65°	7579.5	7455.2	7738.3	8225.2	9761.8	25490.5	50791.1	56212.4	54106.0	41146.7	39565.2
67.5°	6232.8	6101.6	6381.3	7248.0	7424.1	14796.4	45963.7	63532.9	63111.6	46295.2	42883.6
69°	5518.0	5448.9	5694.1	6681.7	7127.1	10507.7	40041.7	64551.6	64651.7	49330.5	43394.6
70°	4972.4	5000.0	5238.3	6395.1	6992.5	8663.7	34223.3	63146.2	63995.6	50846.3	42842.1
72.5°	3660.2	3718.9	4050.4	5297.0	6864.7	7351.6	20366.2	55155.8	56657.9	50936.1	39192.3
75°	2558.7	2531.1	2824.6	3988.3	6484.9	7286.0	11961.4	42655.7	44358.0	44026.5	32931.9
77.5°	1674.7	1719.6	1954.4	2817.7	5455.8	7230.7	7797.0	30262.6	31367.6	29444.3	19478.7
80°	1180.9	1177.5	1308.7	1923.4	4047.0	6947.6	6384.7	19074.7	18795.0	11571.2	5777.0
82.5°	676.8	725.1	877.1	1353.6	2707.2	6115.4	5873.7	9123.0	8328.8	3297.7	1951.0
85°	376.4	393.6	521.4	818.4	1581.5	4606.4	5127.8	4150.6	3915.8	1377.8	839.1
87.5°	120.9	131.2	217.5	414.4	718.2	2175.4	2904.0	1916.4	1768.0	497.2	338.4
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°	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3
2.5°	14420.0	14461.4	14350.9	14243.9	14147.2	14012.5	13891.7	13791.5	13722.5	13712.1	13677.6
5°	14468.3	14471.8	14261.1	13978.0	13701.8	13397.9	13083.7	12859.2	12648.6	12531.2	12472.5
7.5°	14502.9	14471.8	14091.9	13632.7	13100.9	12548.4	11995.9	11553.9	11212.1	11077.4	11129.2
10°	14489.1	14392.4	13836.4	13100.9	12327.4	11502.2	10707.9	10086.4	9516.6	9223.1	9230.0
12.5°	14413.1	14254.2	13456.6	12503.5	11367.5	10262.5	9047.0	8207.9	7548.4	7158.2	7037.3
15°	14347.5	14071.2	13011.1	11692.1	10279.8	8701.7	7220.4	6184.4	5631.9	5324.6	5321.2
17.5°	14278.4	13895.1	12524.3	10832.3	9029.8	6999.4	5445.5	4654.7	4395.7	4426.8	4375.0
20°	14205.9	13687.9	12016.7	9875.8	7507.0	5221.0	4078.1	3756.9	3829.4	3971.0	3991.7
22.5°	14123.0	13466.9	11471.1	8822.6	5904.7	3929.6	3308.0	3259.7	3446.2	3667.2	3698.2
25°	13995.3	13190.7	10783.9	7721.0	4554.6	3166.5	2897.1	2931.7	3114.7	3301.1	3321.8
27.5°	13815.7	12848.8	10089.8	6346.7	3422.0	2717.6	2648.5	2693.4	2783.2	2897.1	2924.7
30°	13574.0	12462.1	9292.2	5158.9	2741.7	2493.1	2465.5	2489.7	2541.5	2589.8	2603.6
32.5°	13332.3	12089.2	8487.6	3950.3	2444.8	2344.6	2317.0	2317.0	2317.0	2323.9	2327.4
35°	13107.8	11737.0	7624.4	3076.7	2289.4	2227.2	2189.2	2147.8	2140.9	2116.7	2116.7
37.5°	12983.5	11415.8	6705.8	2576.0	2175.4	2130.5	2078.7	2009.7	1971.7	1975.2	1968.2
40°	13007.7	11205.2	5870.2	2292.8	2082.2	2033.9	1954.4	1875.0	1850.8	1850.8	1843.9
42.5°	13280.5	11136.1	5069.1	2144.4	1992.4	1937.2	1837.0	1764.5	1750.7	1747.2	1754.2
45°	13908.9	11305.3	4350.9	2047.7	1916.4	1833.6	1733.4	1667.8	1654.0	1654.0	1650.6
47.5°	15134.8	11854.4	3836.4	1985.5	1861.2	1754.2	1650.6	1585.0	1560.8	1553.9	1553.9
50°	17040.9	13045.7	3453.1	1930.3	1792.1	1681.6	1574.6	1498.6	1460.6	1457.2	1453.7
52.5°	19689.4	14903.4	3304.6	1888.8	1716.2	1605.7	1488.3	1415.8	1367.4	1357.1	1350.1
55°	22786.8	17496.7	3508.3	1857.7	1636.8	1519.3	1398.5	1322.5	1277.6	1256.9	1253.5
57.5°	26374.5	20611.3	4281.8	1816.3	1564.2	1426.1	1308.7	1232.7	1184.4	1160.2	1153.3
60°	29596.2	23812.3	5631.9	1792.1	1502.1	1326.0	1205.1	1136.1	1091.2	1067.0	1063.5
62.5°	33135.6	26864.8	7244.5	1857.7	1474.5	1229.3	1108.4	1046.3	1008.3	984.1	984.1
65°	36916.7	29920.8	8311.5	2078.7	1515.9	1153.3	1004.8	953.0	918.5	901.2	897.8
67.5°	39465.1	30977.4	6847.4	2306.6	1619.5	1070.4	904.7	863.3	842.5	825.3	825.3
69°	39188.8	29641.1	5051.8	2365.3	1650.6	1029.0	849.5	818.4	790.8	783.8	776.9
70°	38315.2	28118.3	4233.5	2327.4	1626.4	991.0	814.9	776.9	752.8	745.9	742.4
72.5°	34126.6	24385.5	3152.6	2023.5	1384.7	859.8	721.7	687.2	666.4	656.1	656.1
75°	28353.1	19931.1	2462.0	1609.1	1084.3	725.1	618.1	590.5	573.2	566.3	562.8
77.5°	15891.0	11129.2	1768.0	1260.4	821.8	587.0	518.0	493.8	476.5	469.6	469.6
80°	4426.8	3180.3	1039.4	832.2	559.4	445.4	410.9	393.6	369.5	352.2	362.6
82.5°	1667.8	1377.8	593.9	500.7	355.7	297.0	286.6	272.8	262.4	238.3	238.3
85°	811.5	669.9	379.8	265.9	196.8	155.4	148.5	141.6	134.7	117.4	120.9
87.5°	279.7	297.0	165.7	96.7	58.7	38.0	31.1	17.3	17.3	17.3	17.3
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)