

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: P456971

Luminaire Tested: **GALN-SA8B-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42822 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

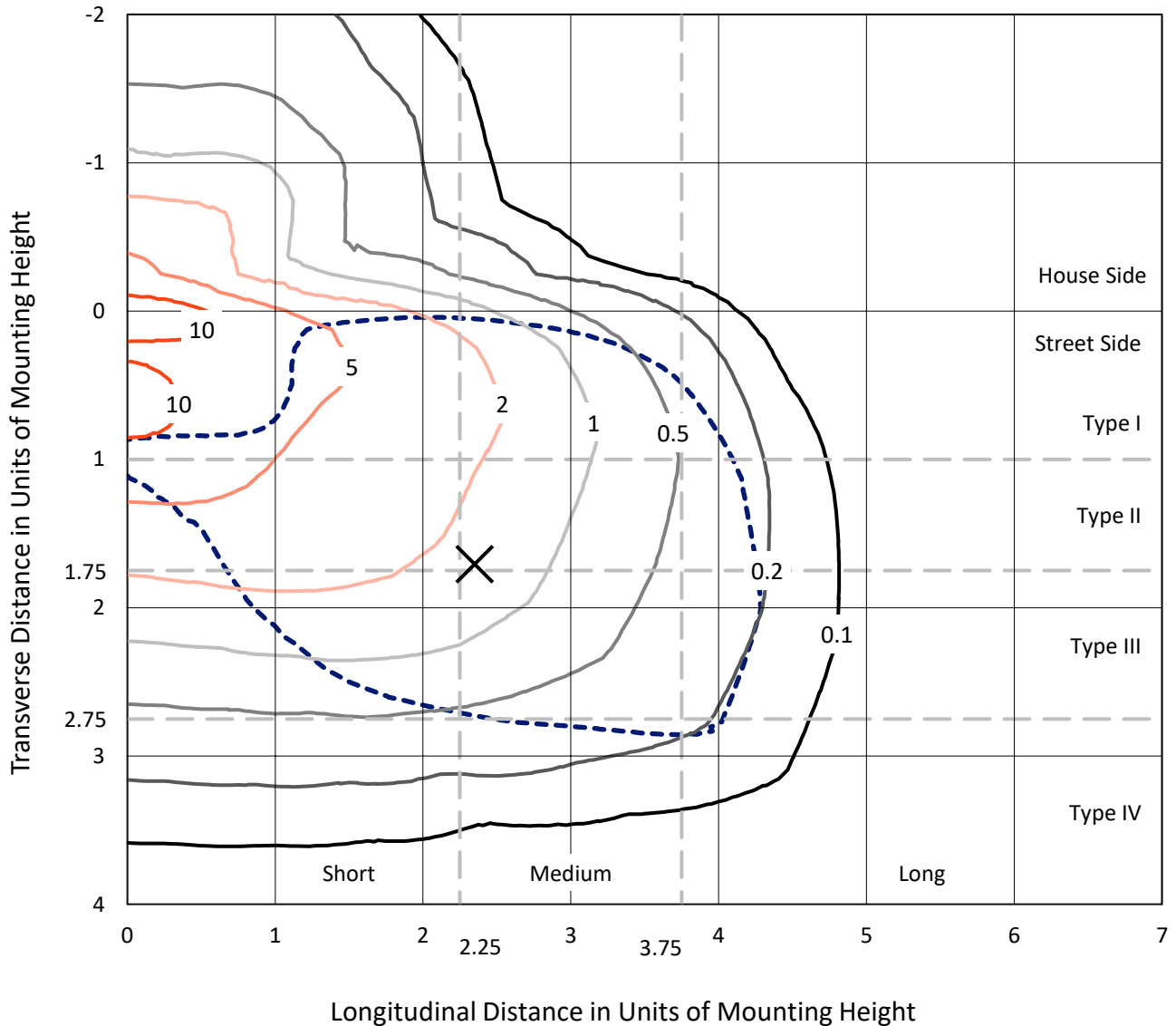
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

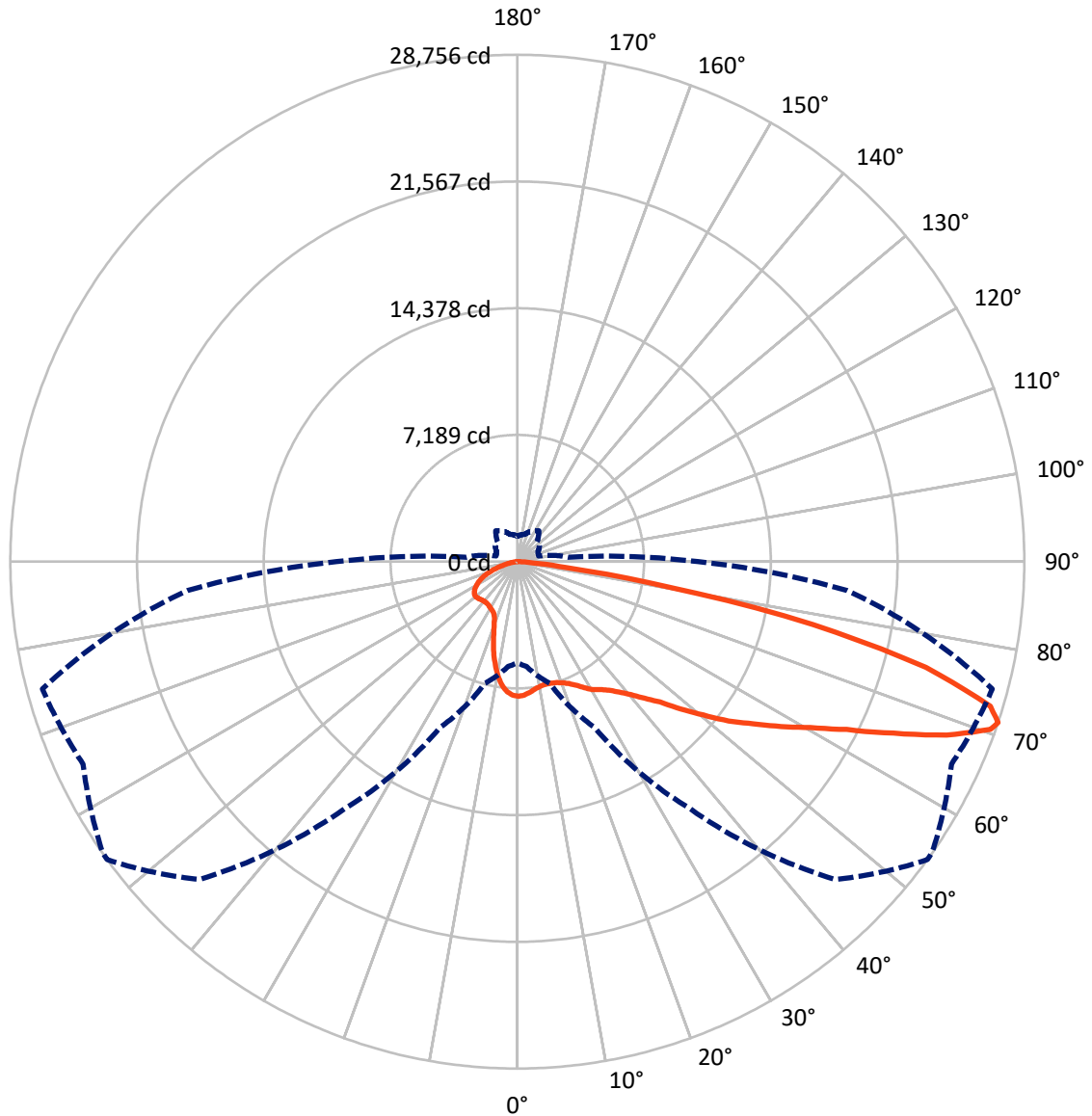
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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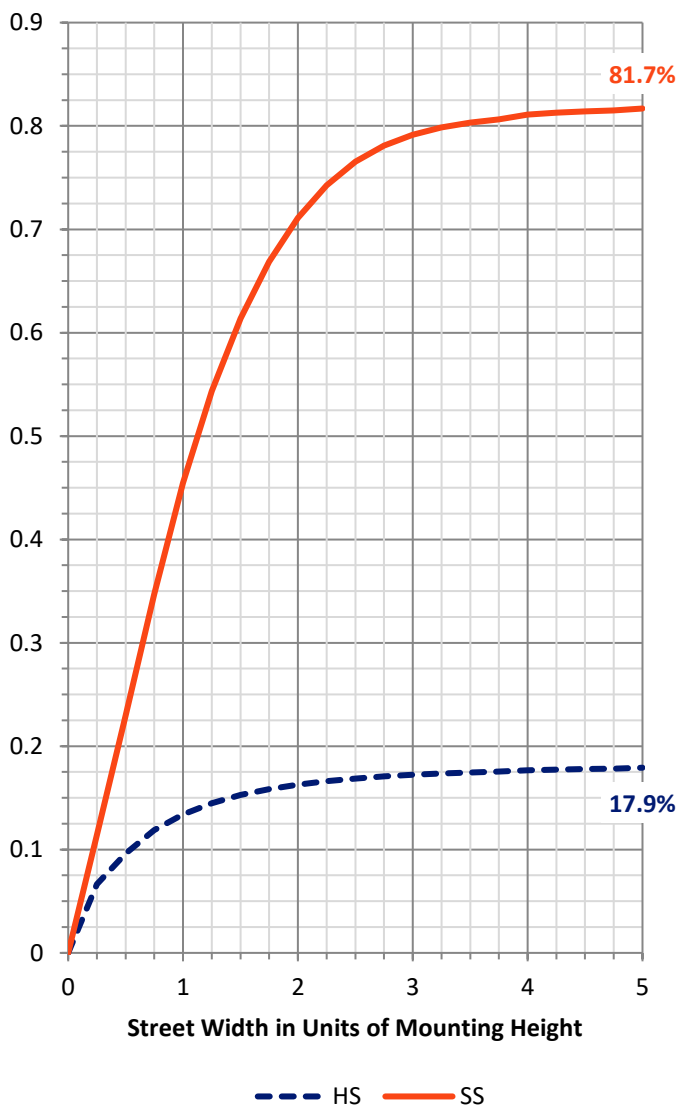
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7731.2	0.0	7731.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	35090.8	0.0	35090.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	42822.0	0.0	42822.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.9	1.6
10°-20°	1797.8	4.2
20°-30°	2993.4	7.0
30°-40°	4426.2	10.3
40°-50°	6234.5	14.6
50°-60°	8348.2	19.5
60°-70°	10522.3	24.6
70°-80°	7186.7	16.8
80°-90°	632.0	1.5
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°	42822.0	100.0
0°-180°	42822.0	100.0

**Coefficient of Utilization**



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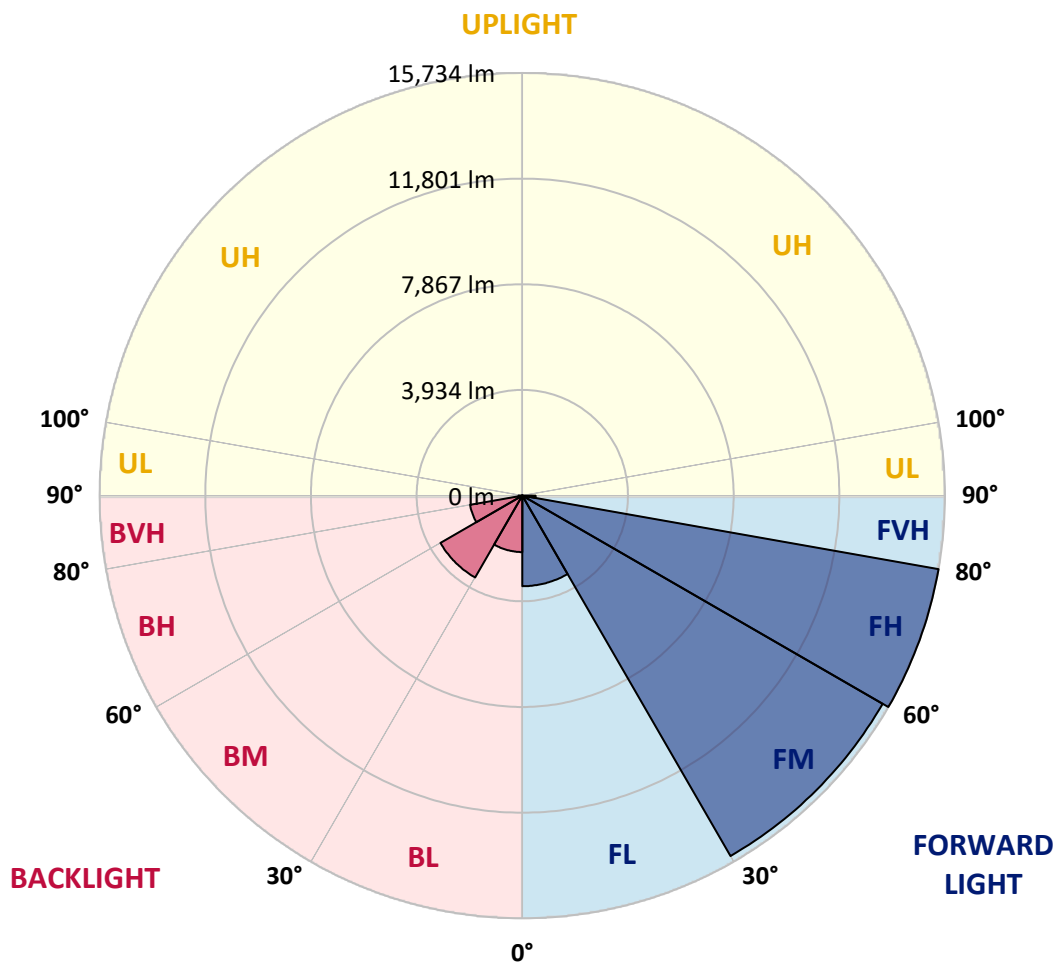
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3370.8	7.9			
FM	(30°-60°)	15491.5	36.2			
FH	(60°-80°)	15734.5	36.7			G5
FVH	(80°-90°)	494.0	1.2			G3/500
BL	(0°-30°)	2101.2	4.9	B3/2500		
BM	(30°-60°)	3517.5	8.2	B3/5000		
BH	(60°-80°)	1974.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	138.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1
2.5°	7381.0	7415.7	7425.0	7448.1	7496.7	7536.0	7575.3	7570.7	7626.2	7649.3	7670.1
5°	7052.6	7061.8	7096.5	7142.8	7228.4	7337.1	7443.5	7445.8	7582.3	7691.0	7744.2
7.5°	6812.0	6842.1	6865.2	6913.8	7004.0	7122.0	7290.8	7304.7	7547.6	7762.7	7876.0
10°	6654.7	6689.4	6714.8	6775.0	6865.2	6997.0	7179.8	7205.2	7522.1	7876.0	8074.9
12.5°	6511.3	6546.0	6569.1	6647.8	6765.7	6927.7	7133.5	7163.6	7531.4	8007.9	8292.4
15°	6599.2	6627.0	6617.7	6640.8	6719.5	6904.5	7152.0	7182.1	7566.1	8135.1	8507.5
17.5°	6990.1	7013.2	6936.9	6849.0	6812.0	6948.5	7209.8	7242.2	7635.5	8266.9	8727.2
20°	7566.1	7628.5	7462.0	7265.4	7087.3	7105.8	7330.1	7364.8	7732.6	8398.8	8951.6
22.5°	8315.5	8361.8	8158.2	7834.4	7505.9	7337.1	7510.5	7531.4	7878.3	8569.9	9196.8
25°	9196.8	9224.5	8942.3	8526.0	8051.8	7732.6	7758.0	7795.1	8118.9	8764.2	9414.2
27.5°	10052.6	10140.5	9814.4	9305.5	8681.0	8149.0	8098.1	8121.2	8380.3	8872.9	9564.6
30°	11068.1	11061.1	10716.5	10126.6	9326.3	8602.3	8419.6	8415.0	8521.4	8926.1	9673.3
32.5°	11877.6	11972.5	11634.8	10991.7	10064.2	9071.9	8641.6	8632.4	8630.1	9018.7	9835.2
35°	12798.2	12812.1	12502.2	11854.5	10862.2	9661.7	8951.6	8905.3	8852.1	9217.6	10054.9
37.5°	13621.7	13686.5	13401.9	12675.6	11646.3	10274.7	9377.2	9347.1	9185.2	9562.2	10406.5
40°	14264.7	14313.3	14142.1	13450.5	12418.9	10936.2	9918.5	9862.9	9666.3	10126.6	10876.1
42.5°	14475.2	14574.7	14641.7	14301.7	13307.1	11720.3	10584.6	10515.2	10364.9	10982.5	11417.3
45°	14491.4	14648.7	15002.6	15018.8	14200.0	12659.4	11361.8	11313.2	11301.7	12078.9	12178.3
47.5°	14368.8	14528.4	15122.9	15444.4	14995.6	13607.8	12483.7	12407.3	12414.3	13434.3	13031.9
50°	14072.7	14262.4	14984.1	15717.3	15617.9	14593.2	13667.9	13642.5	13785.9	14981.8	13917.8
52.5°	13515.3	13744.3	14840.7	15888.5	16080.5	15442.1	15014.2	14942.4	15305.6	16661.1	14886.9
55°	11972.5	12317.1	14315.6	15983.3	16520.0	16254.0	16226.2	16355.7	16836.9	18493.0	15953.3
57.5°	11167.5	11426.6	13175.3	15999.5	17075.1	17197.7	17641.8	17674.2	18516.1	20438.3	17158.4
60°	10728.0	10957.0	12550.7	15893.1	17850.0	18365.8	19089.8	19205.4	20156.1	22545.5	18407.4
62.5°	10344.1	10540.7	12176.0	15525.3	18724.3	20098.3	20965.7	21021.2	22018.1	24872.5	19640.3
65°	9439.6	9664.0	11422.0	15157.6	19478.4	22263.3	23454.6	23389.8	24000.4	26880.2	20412.9
67.5°	8220.7	8505.2	10013.3	13887.7	19850.8	24629.6	26258.0	26177.0	25957.3	28196.4	20634.9
70°	6664.0	6816.6	8211.4	11692.6	18363.5	25871.7	28471.6	28386.0	27169.4	28369.8	19584.8
71°	5734.1	5972.4	7149.7	10385.7	17126.0	25492.4	28756.1	28733.0	27171.7	27891.0	18793.7
72.5°	4475.8	4621.5	5662.4	8047.2	14556.2	23336.6	28052.9	28140.8	26581.8	26561.0	17163.0
75°	2831.2	2896.0	3552.9	4737.2	7987.0	16526.9	23947.2	24185.5	23602.6	21740.6	12763.5
77.5°	1644.6	1727.9	2128.0	2791.9	3451.1	8970.1	17135.2	17394.3	16399.7	11970.2	5225.2
80°	957.6	1050.1	1401.7	1621.5	1584.5	3328.5	8724.9	9166.7	7101.1	3023.2	1466.5
82.5°	532.0	594.5	985.4	987.7	844.3	1087.1	2745.6	2872.8	2026.3	1219.0	599.1
85°	386.3	437.2	636.1	576.0	404.8	467.2	955.3	1001.6	818.8	513.5	194.3
87.5°	136.5	194.3	349.3	277.6	111.0	97.1	275.3	224.4	208.2	143.4	43.9
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°	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1	7640.1
2.5°	7681.7	7686.3	7663.2	7621.6	7579.9	7526.7	7466.6	7420.3	7399.5	7397.2	7394.9
5°	7765.0	7776.6	7688.7	7559.1	7415.7	7239.9	7089.6	6918.4	6874.5	6805.1	6825.9
7.5°	7899.1	7892.2	7718.7	7443.5	7108.1	6735.7	6421.1	6238.4	6048.7	5995.5	5997.8
10°	8091.1	8047.2	7718.7	7207.5	6647.8	6094.9	5655.5	5377.9	5227.5	5102.6	5056.4
12.5°	8294.7	8183.7	7644.7	6876.8	6055.6	5377.9	4906.0	4531.3	4434.2	4332.4	4334.7
15°	8489.0	8303.9	7499.0	6411.8	5417.2	4612.3	4154.3	3929.9	3899.8	3911.4	3909.1
17.5°	8664.8	8389.5	7276.9	5893.7	4672.4	3955.4	3712.5	3728.7	3809.6	3867.5	3874.4
20°	8842.9	8440.4	6946.2	5199.8	3969.2	3557.5	3566.8	3694.0	3816.6	3895.2	3906.8
22.5°	9011.7	8463.5	6557.6	4529.0	3460.4	3388.7	3525.1	3661.6	3781.9	3858.2	3869.8
25°	9122.8	8410.3	6007.0	3828.1	3210.5	3328.5	3471.9	3587.6	3689.4	3768.0	3786.5
27.5°	9152.8	8239.2	5324.7	3261.4	3094.9	3270.7	3402.5	3488.1	3566.8	3640.8	3654.7
30°	9136.6	7987.0	4575.3	2928.3	3027.8	3203.6	3305.4	3367.8	3462.7	3520.5	3532.1
32.5°	9111.2	7693.3	3793.4	2750.2	2972.3	3141.2	3201.3	3256.8	3254.5	3231.4	3247.6
35°	9120.4	7341.7	3159.7	2643.8	2923.7	3094.9	3145.8	3076.4	2877.5	2868.2	2859.0
37.5°	9169.0	6994.7	2699.4	2569.8	2898.3	3088.0	3115.7	2796.5	2620.7	2539.8	2518.9
40°	9293.9	6589.9	2396.3	2514.3	2896.0	3141.2	2979.2	2655.4	2317.7	2160.4	2148.8
42.5°	9460.5	6192.1	2211.3	2479.6	2923.7	3222.1	2923.7	2456.5	2088.7	1996.2	1982.3
45°	9708.0	5736.4	2109.5	2463.4	2965.4	3252.2	2905.2	2310.8	1996.2	1922.2	1922.2
47.5°	9987.8	5301.6	2054.0	2451.9	3018.6	3231.4	2741.0	2264.5	1952.2	1961.5	2005.4
50°	10265.4	4924.5	2012.4	2426.4	3064.8	3219.8	2673.9	2262.2	1963.8	2081.8	2160.4
52.5°	10586.9	4658.5	1961.5	2384.8	3064.8	3145.8	2653.1	2308.4	1996.2	2030.9	2065.6
55°	10975.5	4575.3	1896.7	2294.6	3009.3	2960.7	2641.5	2375.5	2019.3	1938.4	1952.2
57.5°	11489.0	4709.4	1834.3	2181.2	2882.1	2768.7	2636.9	2394.0	1966.1	1899.0	1885.2
60°	12085.8	4975.4	1815.8	2065.6	2708.6	2604.5	2609.1	2340.8	1892.1	1822.7	1834.3
62.5°	12504.5	5135.0	1804.2	1977.7	2518.9	2424.1	2542.1	2276.1	1859.7	1799.6	1811.1
65°	12504.5	4940.7	1697.8	1843.5	2273.8	2206.7	2461.1	2195.1	1818.1	1748.7	1737.1
67.5°	12030.3	4374.0	1535.9	1642.3	2003.1	1959.2	2347.8	2098.0	1755.6	1702.4	1674.7
70°	10795.1	3316.9	1332.3	1406.3	1660.8	1700.1	2202.0	1966.1	1651.5	1586.8	1545.1
71°	10251.5	2889.0	1246.7	1286.1	1528.9	1586.8	2132.7	1910.6	1605.3	1512.7	1438.7
72.5°	9203.7	2433.4	1117.2	1133.4	1306.9	1411.0	1986.9	1804.2	1517.4	1385.5	1302.3
75°	6992.4	1776.4	899.8	890.5	966.9	1119.5	1681.6	1607.6	1330.0	1151.9	1103.3
77.5°	3020.9	966.9	673.1	680.0	656.9	848.9	1323.1	1380.9	1140.3	936.8	892.8
80°	916.0	557.5	460.3	469.6	439.5	569.0	932.2	1082.5	916.0	728.6	668.5
82.5°	469.6	333.1	314.6	310.0	279.9	321.5	564.4	740.2	654.6	455.7	402.5
85°	203.6	178.1	155.0	150.3	131.8	115.7	201.2	370.1	347.0	254.4	242.9
87.5°	50.9	46.3	30.1	27.8	16.2	2.3	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)