

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: P457443

Luminaire Tested: **GALN-SA8D-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
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-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51180 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

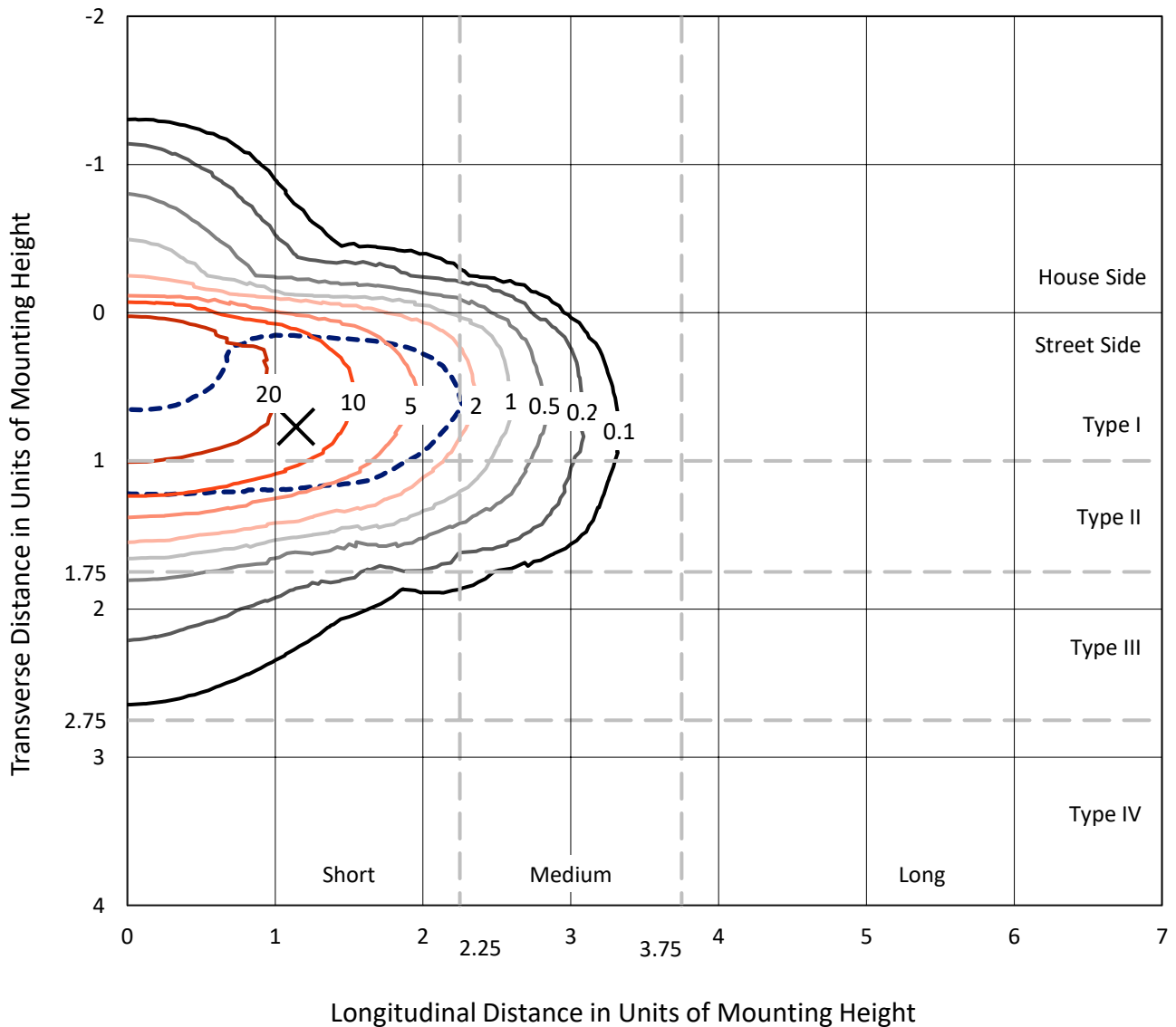
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

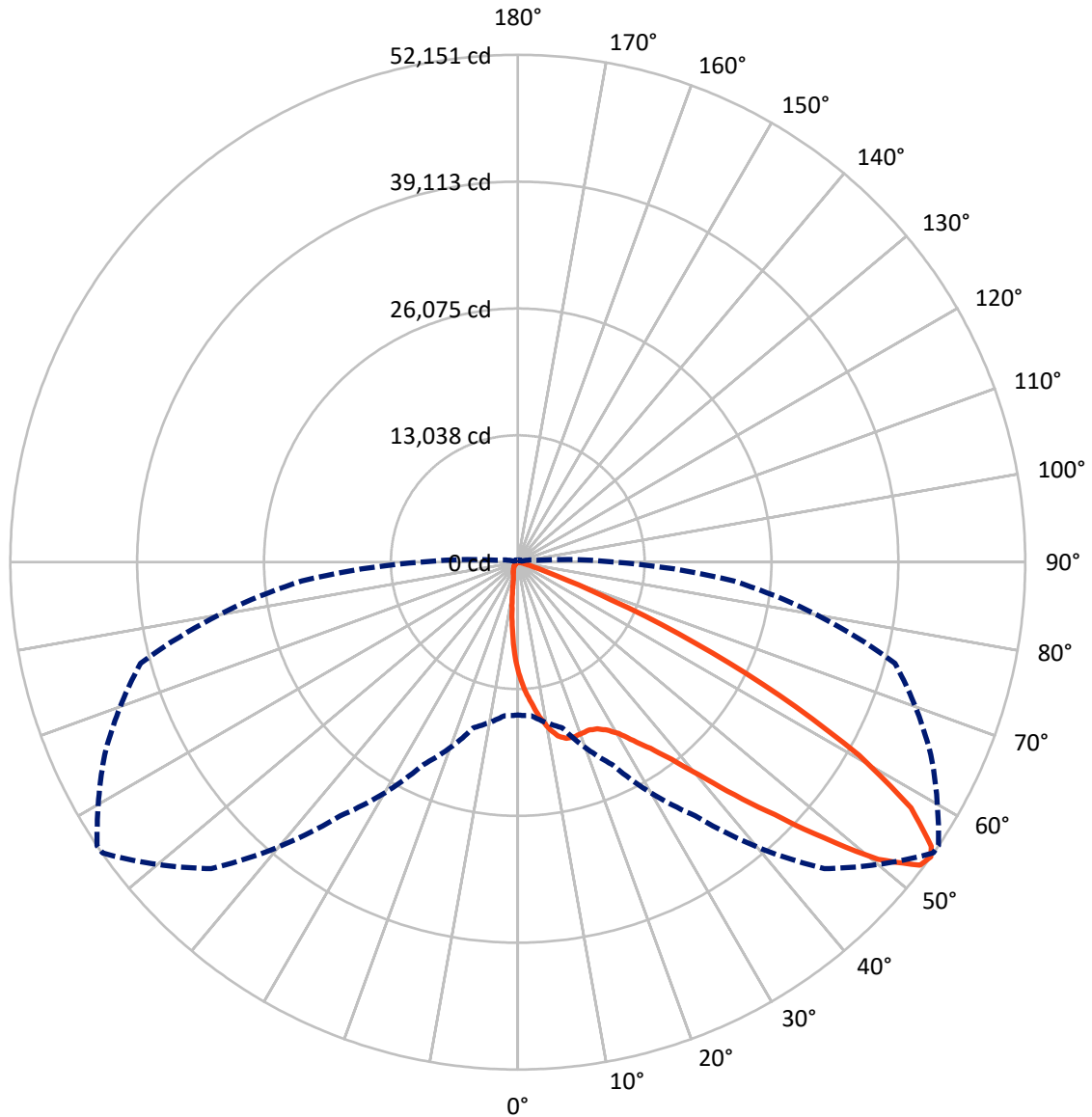
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical



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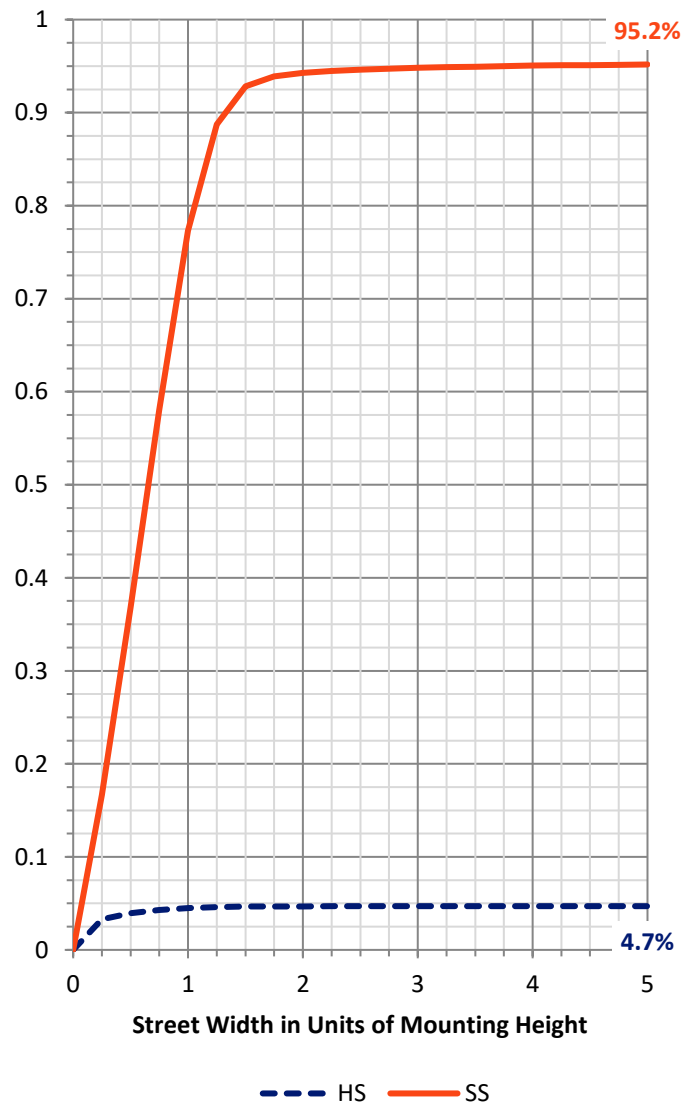
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2420.2	0.0	2420.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	48759.8	0.0	48759.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	51180.0	0.0	51180.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1004.8	2.0
10°-20°	2716.3	5.3
20°-30°	4704.3	9.2
30°-40°	8120.4	15.9
40°-50°	13821.3	27.0
50°-60°	13677.9	26.7
60°-70°	6242.9	12.2
70°-80°	801.7	1.6
80°-90°	90.4	0.2
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°	51180.0	100.0
0°-180°	51180.0	100.0



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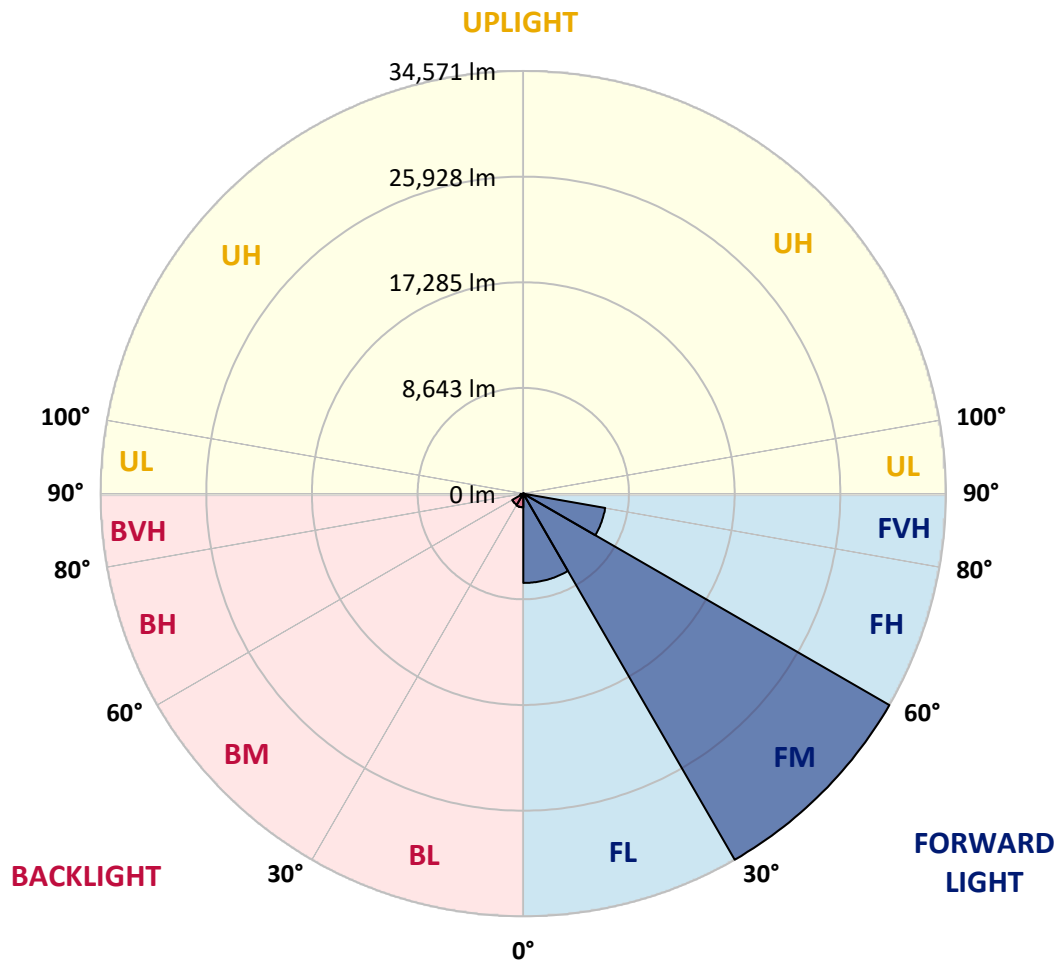
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7306.1	14.3			
FM	(30°-60°)	34570.8	67.5			
FH	(60°-80°)	6802.3	13.3			G3/7500
FVH	(80°-90°)	80.7	0.2			G1/100
BL	(0°-30°)	1119.3	2.2	B3/2500		
BM	(30°-60°)	1048.9	2.0	B2/2500		
BH	(60°-80°)	242.3	0.5	B1/500		G1/500
BVH	(80°-90°)	9.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7
2.5°	14450.8	14350.7	14212.5	14105.5	13853.4	13490.9	13107.6	13107.6	12738.1	12223.6	11698.8
5°	16667.6	16602.0	16467.4	16191.1	15908.0	15400.4	14630.4	14495.7	13836.2	12903.9	11923.2
7.5°	17568.9	17599.9	17606.8	17534.3	17399.7	16899.0	16135.9	16042.6	14989.5	13739.5	12216.7
10°	16705.6	16857.5	17006.0	17306.4	17731.1	17852.0	17420.4	17323.7	16287.8	14585.5	12534.4
12.5°	15421.1	15504.0	15586.8	16059.9	16912.8	17890.0	18342.3	18338.9	17461.8	15428.0	12938.4
15°	14823.7	14896.2	14903.1	15113.8	15852.7	17275.4	18736.0	18787.8	18608.2	16467.4	13373.5
17.5°	14948.0	15006.7	14958.4	15010.2	15396.9	16598.6	18691.1	18863.7	19537.1	17465.3	13767.1
20°	15759.5	15873.4	15687.0	15541.9	15659.3	16419.0	18539.2	18780.9	20193.1	18439.0	14126.2
22.5°	17216.7	17278.8	17044.0	16646.9	16439.7	16795.4	18497.7	18736.0	20752.5	19236.7	14333.4
25°	18836.1	18815.4	18556.4	18111.0	17675.9	17555.0	18770.5	18984.6	21215.2	19954.9	14395.6
27.5°	20455.6	20517.7	20082.6	19530.2	19008.8	18694.5	19381.7	19540.5	21736.6	20773.2	14471.5
30°	22337.4	22237.3	21809.1	21177.2	20579.9	20141.3	20365.8	20410.7	22454.9	21857.5	14671.8
32.5°	24785.6	24509.4	24029.4	22924.5	22496.3	21753.9	21809.1	21864.4	23328.5	22931.4	14913.5
35°	28107.4	28093.6	27154.4	25666.1	24623.3	23701.4	23459.7	23504.6	24651.0	24526.6	15448.7
37.5°	32106.0	32161.2	31090.8	29592.2	27672.3	26208.3	25711.0	25717.9	26660.6	26729.7	16263.6
40°	35362.2	35507.2	34868.4	33856.7	31961.0	29671.6	28836.0	28760.0	29485.2	29398.8	17427.3
42.5°	36764.1	36898.7	37137.0	37489.2	36446.4	34557.6	32585.9	32689.5	32910.5	32306.3	18732.5
45°	36076.9	36291.0	37226.8	39402.2	40382.8	39747.5	37396.0	37033.4	36097.6	35465.7	20044.7
47.5°	33214.4	33735.8	35300.0	38922.2	42354.5	44502.2	42824.1	42344.1	39288.2	37772.4	20880.3
50°	28508.0	28539.0	30717.9	35348.3	41332.4	47502.9	48366.2	48007.0	42261.3	39067.2	21301.5
52.5°	20666.2	21346.4	23342.3	28704.8	36905.7	47047.1	51898.6	51750.1	45327.5	39730.2	21909.3
54°	15711.1	15842.4	17617.2	22938.3	31819.4	44543.7	52116.1	52150.6	46850.3	40130.8	22268.4
55°	12879.7	12565.5	14430.1	19540.5	28349.1	42330.3	51404.8	51570.5	47534.0	40337.9	22534.3
57.5°	6104.9	6108.4	7534.4	10307.2	17755.3	32869.1	47057.5	47644.5	47609.9	40693.6	23352.6
60°	3090.4	3111.2	3425.4	4758.2	8770.6	21850.6	38908.4	40306.9	43946.3	40745.4	23622.0
62.5°	2161.6	2137.4	2085.6	2289.3	3691.3	11104.8	28967.2	30182.7	37337.3	38773.7	22765.6
65°	1850.8	1799.0	1654.0	1622.9	1864.6	4423.3	18041.9	20023.9	28508.0	33573.5	20327.8
67.5°	1581.5	1560.8	1429.5	1350.1	1319.0	1926.8	9309.3	10352.1	19485.3	24133.0	15396.9
70°	1343.2	1332.9	1253.4	1153.3	1067.0	1153.3	3453.0	4278.3	10859.7	12993.6	7265.1
72.5°	1091.1	1101.5	1115.3	987.6	897.8	818.4	1474.4	1716.1	4544.1	4644.3	2541.4
75°	956.5	946.1	946.1	859.8	749.3	607.7	811.5	873.6	1391.6	1291.4	590.5
77.5°	673.3	649.2	759.7	707.9	625.0	431.6	462.7	490.3	576.7	493.8	276.2
80°	466.2	466.2	486.9	635.4	562.8	314.2	283.1	303.9	341.8	293.5	158.8
82.5°	262.4	269.3	317.7	338.4	328.0	210.6	186.5	189.9	227.9	200.3	100.1
85°	31.1	51.8	183.0	179.6	134.7	93.2	103.6	107.0	141.6	124.3	58.7
87.5°	3.5	6.9	38.0	48.3	34.5	38.0	38.0	38.0	48.3	55.2	41.4
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°	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7	11370.7
2.5°	11415.6	11153.2	10528.2	9803.1	9340.4	8587.6	7952.3	7493.0	7379.1	7158.1	7223.7
5°	11401.8	10856.2	9582.1	8235.4	6799.0	5728.5	4930.9	4302.4	4026.2	3843.2	3715.4
7.5°	11408.7	10555.8	8511.6	6367.3	4651.2	3601.5	2862.5	2479.3	2223.7	2116.7	2130.5
10°	11429.4	10217.4	7268.6	4716.8	3138.8	2327.3	1875.0	1692.0	1605.6	1591.8	1588.4
12.5°	11477.8	9848.0	6080.7	3501.3	2196.1	1692.0	1519.3	1457.2	1429.5	1429.5	1419.2
15°	11529.6	9440.5	5093.2	2603.6	1692.0	1453.7	1374.3	1343.2	1326.0	1326.0	1322.5
17.5°	11529.6	8970.9	4171.2	2020.0	1457.2	1336.3	1274.2	1232.7	1218.9	1218.9	1215.5
20°	11457.0	8425.3	3352.9	1626.4	1322.5	1225.8	1163.7	1118.8	1101.5	1094.6	1091.1
22.5°	11205.0	7696.7	2669.2	1398.5	1212.0	1129.1	1049.7	997.9	984.1	977.2	980.7
25°	10756.1	6874.9	2113.2	1229.3	1111.9	1011.7	942.7	904.7	890.9	890.9	894.3
27.5°	10293.4	6015.1	1674.7	1101.5	991.0	901.2	846.0	821.8	818.4	828.7	832.2
30°	9865.2	5151.9	1357.0	997.9	884.0	808.0	770.0	763.1	763.1	766.6	770.0
32.5°	9388.7	4395.7	1136.0	908.1	797.6	732.0	711.3	711.3	718.2	718.2	725.1
35°	9088.3	3746.5	997.9	821.8	732.0	676.8	663.0	666.4	676.8	690.6	697.5
37.5°	8926.0	3228.6	908.1	752.8	669.9	631.9	618.1	625.0	649.2	673.3	676.8
40°	8939.8	2838.4	835.6	694.1	621.5	580.1	569.7	590.5	614.6	638.8	642.3
42.5°	9091.7	2548.3	766.6	625.0	580.1	521.4	517.9	538.7	549.0	573.2	576.7
45°	9271.3	2337.7	694.1	552.5	504.1	452.3	455.8	473.1	486.9	524.9	531.8
47.5°	9326.5	2192.7	611.2	469.6	414.4	397.1	400.5	410.9	438.5	473.1	476.5
50°	9388.7	2102.9	531.8	397.1	352.2	348.8	352.2	359.1	376.4	390.2	386.7
52.5°	9654.6	2099.4	466.2	345.3	300.4	307.3	310.8	307.3	293.5	272.8	265.9
54°	9903.2	2109.8	435.1	321.1	276.2	286.6	283.1	265.9	231.4	210.6	200.3
55°	10103.5	2120.1	417.8	303.9	262.4	265.9	269.3	234.8	189.9	169.2	162.3
57.5°	10497.1	2096.0	376.4	265.9	231.4	217.5	214.1	155.4	103.6	89.8	82.9
60°	10300.3	1892.2	341.8	227.9	196.8	176.1	145.0	86.3	51.8	38.0	38.0
62.5°	9526.8	1605.6	303.9	186.5	162.3	134.7	76.0	48.3	24.2	13.8	10.4
65°	8522.0	1350.1	272.8	148.5	127.8	86.3	41.4	31.1	10.4	0.0	0.0
67.5°	6336.3	1001.4	231.4	117.4	96.7	55.2	27.6	17.3	3.5	0.0	0.0
70°	2935.0	611.2	196.8	89.8	69.1	41.4	20.7	10.4	0.0	0.0	0.0
72.5°	842.5	383.3	162.3	65.6	48.3	34.5	17.3	6.9	3.5	0.0	0.0
75°	293.5	307.3	120.9	48.3	38.0	24.2	13.8	6.9	3.5	0.0	0.0
77.5°	176.1	248.6	76.0	41.4	31.1	20.7	13.8	6.9	3.5	3.5	0.0
80°	100.1	165.7	48.3	34.5	27.6	17.3	10.4	6.9	3.5	3.5	0.0
82.5°	55.2	79.4	38.0	31.1	24.2	17.3	10.4	6.9	3.5	3.5	3.5
85°	44.9	41.4	31.1	27.6	20.7	13.8	10.4	3.5	0.0	0.0	0.0
87.5°	34.5	27.6	27.6	27.6	20.7	13.8	10.4	3.5	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)