

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: P452824

Luminaire Tested: **GALN-SA3D-740-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452824  
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-SA3D-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23632 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

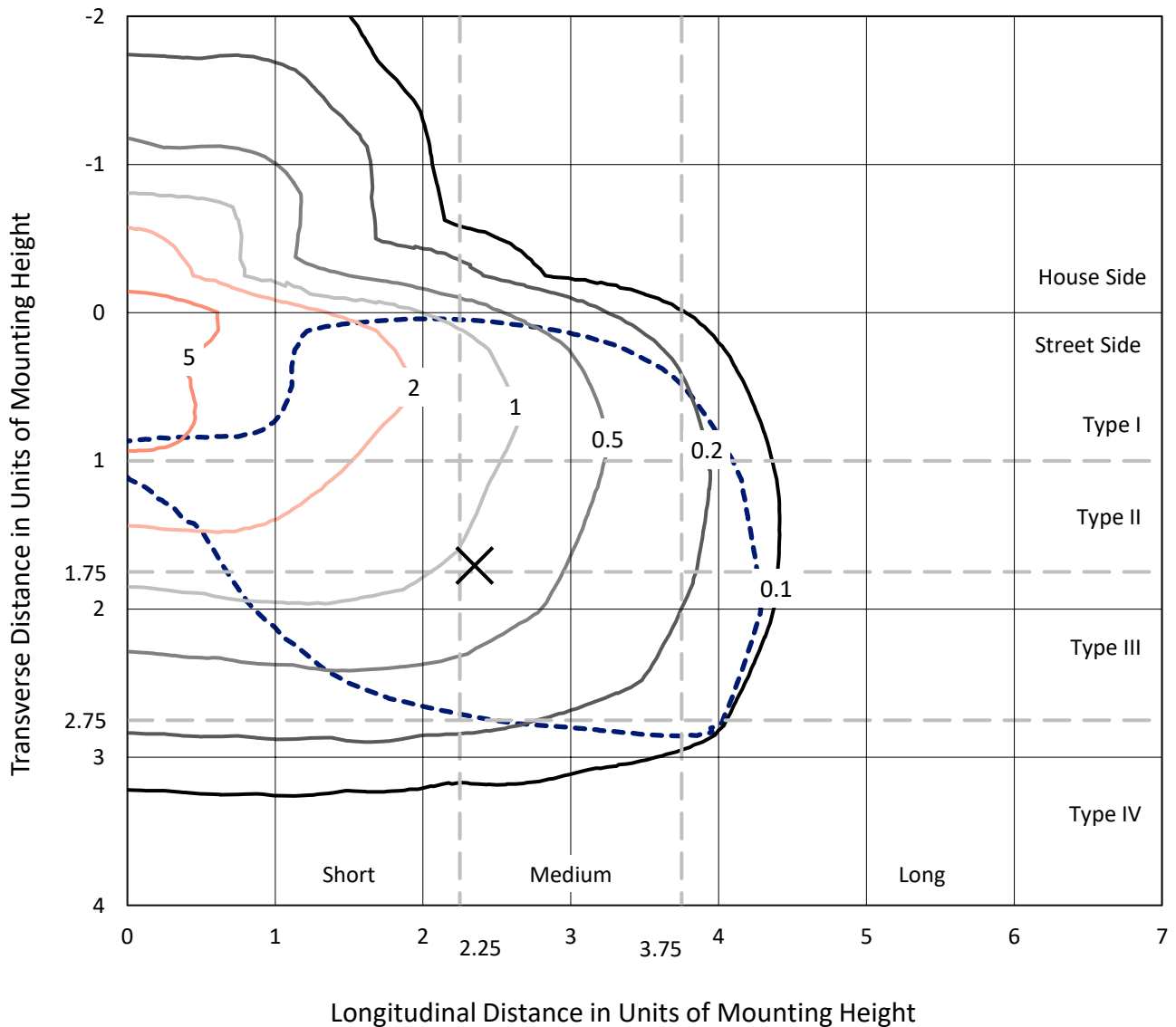
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

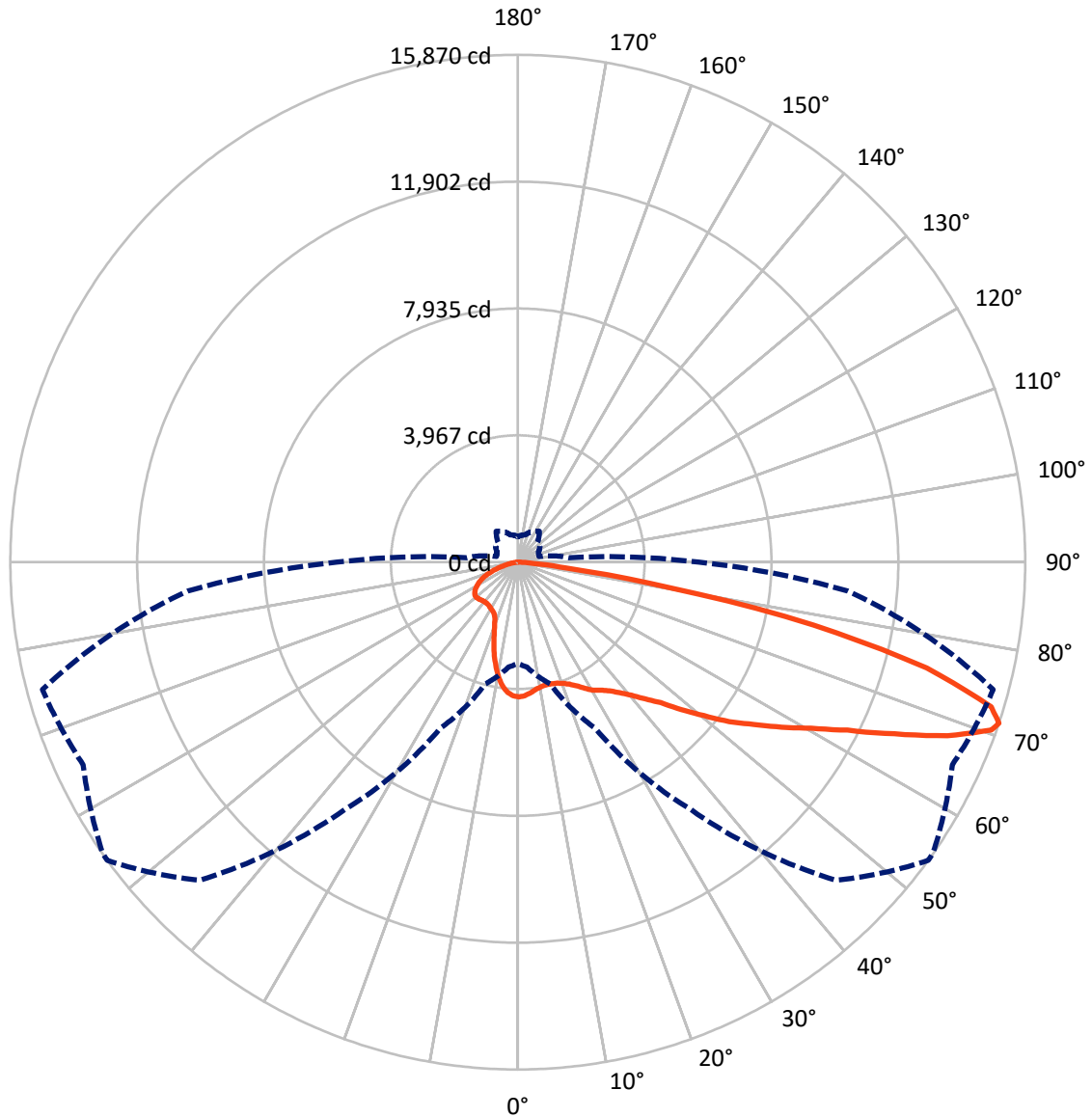
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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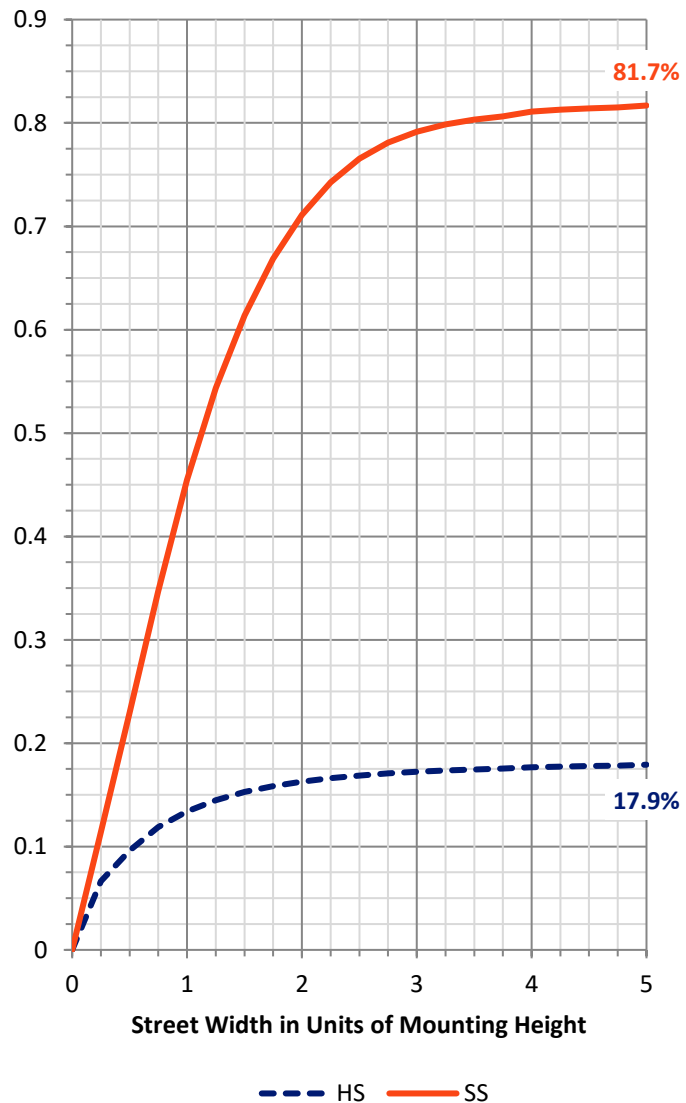
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4266.6	0.0	4266.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	19365.4	0.0	19365.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	23632.0	0.0	23632.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.7	1.6
10°-20°	992.1	4.2
20°-30°	1651.9	7.0
30°-40°	2442.7	10.3
40°-50°	3440.6	14.6
50°-60°	4607.1	19.5
60°-70°	5806.9	24.6
70°-80°	3966.1	16.8
80°-90°	348.8	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°	23632.0	100.0
0°-180°	23632.0	100.0



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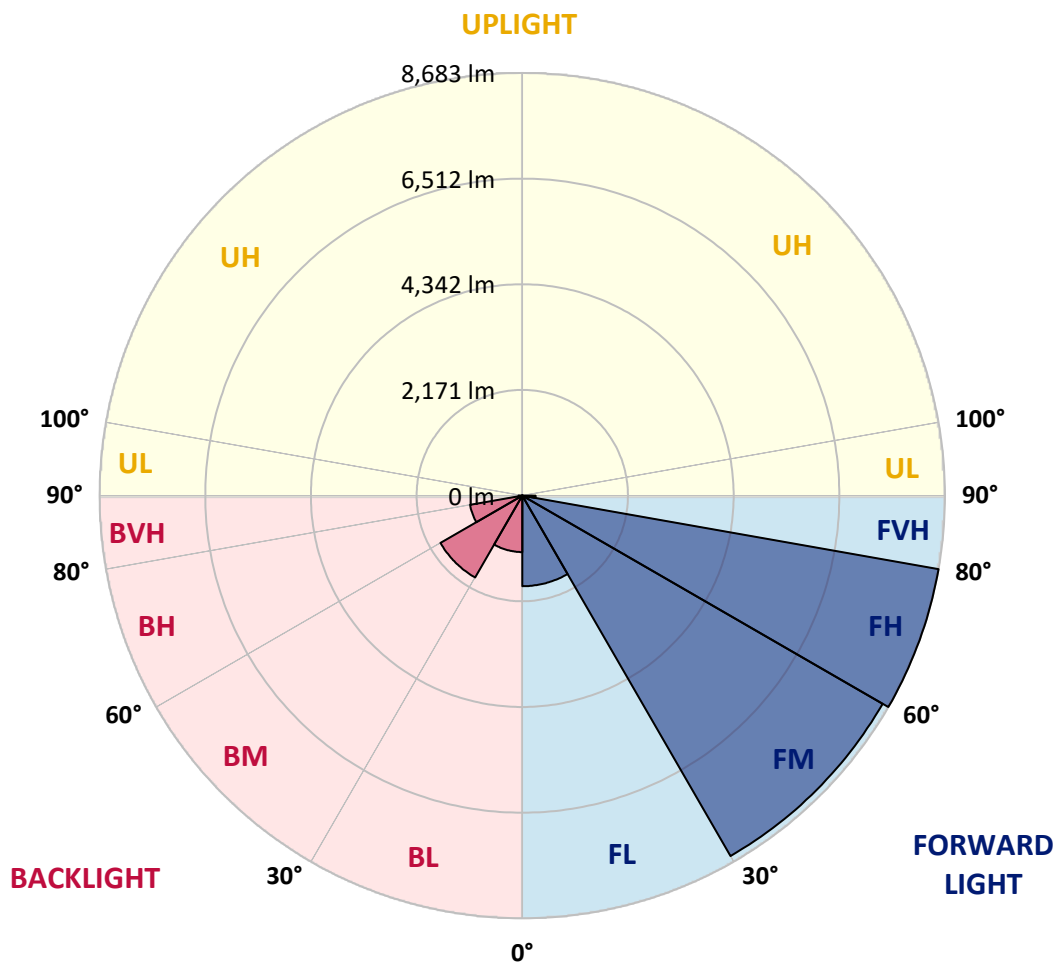
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1860.2	7.9			
FM	(30°-60°)	8549.2	36.2			
FH	(60°-80°)	8683.3	36.7			G4/12000
FVH	(80°-90°)	272.6	1.2			G3/500
BL	(0°-30°)	1159.6	4.9	B3/2500		
BM	(30°-60°)	1941.2	8.2	B2/2500		
BH	(60°-80°)	1089.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	76.2	0.3			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3
2.5°	4073.3	4092.5	4097.6	4110.3	4137.2	4158.9	4180.6	4178.0	4208.6	4221.4	4232.9
5°	3892.1	3897.2	3916.3	3941.8	3989.1	4049.1	4107.8	4109.1	4184.4	4244.4	4273.7
7.5°	3759.3	3775.9	3788.7	3815.5	3865.3	3930.4	4023.5	4031.2	4165.2	4284.0	4346.5
10°	3672.5	3691.7	3705.7	3738.9	3788.7	3861.4	3962.3	3976.3	4151.2	4346.5	4456.3
12.5°	3593.4	3612.5	3625.3	3668.7	3733.8	3823.1	3936.7	3953.3	4156.3	4419.3	4576.3
15°	3641.9	3657.2	3652.1	3664.8	3708.2	3810.4	3947.0	3963.6	4175.5	4489.5	4695.0
17.5°	3857.6	3870.4	3828.2	3779.7	3759.3	3834.6	3978.9	3996.7	4213.7	4562.2	4816.3
20°	4175.5	4209.9	4118.0	4009.5	3911.2	3921.4	4045.2	4064.4	4267.4	4635.0	4940.1
22.5°	4589.0	4614.6	4502.2	4323.5	4142.3	4049.1	4144.8	4156.3	4347.8	4729.5	5075.4
25°	5075.4	5090.7	4935.0	4705.2	4443.5	4267.4	4281.4	4301.8	4480.5	4836.7	5195.4
27.5°	5547.7	5596.2	5416.2	5135.4	4790.7	4497.1	4469.0	4481.8	4624.8	4896.7	5278.4
30°	6108.1	6104.3	5914.1	5588.5	5146.9	4747.3	4646.5	4643.9	4702.6	4926.0	5338.3
32.5°	6554.9	6607.2	6420.8	6066.0	5554.1	5006.5	4769.0	4763.9	4762.6	4977.1	5427.7
35°	7062.9	7070.6	6899.5	6542.1	5994.5	5332.0	4940.1	4914.5	4885.2	5086.9	5549.0
37.5°	7517.3	7553.1	7396.1	6995.3	6427.2	5670.2	5175.0	5158.4	5069.0	5277.1	5743.0
40°	7872.2	7899.0	7804.6	7422.9	6853.6	6035.3	5473.7	5443.0	5334.5	5588.5	6002.1
42.5°	7988.4	8043.3	8080.3	7892.6	7343.7	6468.1	5841.3	5803.0	5720.0	6060.8	6300.8
45°	7997.3	8084.1	8279.4	8288.4	7836.5	6986.3	6270.2	6243.4	6237.0	6665.9	6720.8
47.5°	7929.7	8017.7	8345.8	8523.2	8275.6	7509.7	6889.3	6847.2	6851.0	7413.9	7191.8
50°	7766.3	7870.9	8269.2	8673.9	8619.0	8053.5	7542.9	7528.8	7608.0	8267.9	7680.7
52.5°	7458.6	7585.0	8190.1	8768.3	8874.3	8522.0	8285.8	8246.2	8446.6	9194.7	8215.6
55°	6607.2	6797.4	7900.3	8820.7	9116.8	8970.0	8954.7	9026.2	9291.7	10205.7	8804.1
57.5°	6163.0	6305.9	7271.0	8829.6	9423.2	9490.8	9735.9	9753.8	10218.4	11279.2	9469.1
60°	5920.4	6046.8	6926.3	8770.9	9850.8	10135.5	10535.0	10598.8	11123.5	12442.1	10158.4
62.5°	5708.5	5817.0	6719.5	8567.9	10333.3	11091.6	11570.2	11600.9	12151.1	13726.3	10838.8
65°	5209.4	5333.2	6303.4	8364.9	10749.5	12286.4	12943.8	12908.0	13245.0	14834.3	11265.2
67.5°	4536.7	4693.7	5526.0	7664.1	10955.0	13592.2	14490.9	14446.2	14324.9	15560.6	11387.7
70°	3677.6	3761.9	4531.6	6452.7	10134.2	14277.7	15712.5	15665.3	14993.8	15656.3	10808.2
71°	3164.5	3295.9	3945.7	5731.5	9451.2	14068.4	15869.5	15856.8	14995.1	15392.1	10371.6
72.5°	2470.0	2550.5	3124.9	4441.0	8033.1	12878.7	15481.5	15530.0	14669.6	14658.1	9471.7
75°	1562.4	1598.2	1960.7	2614.3	4407.8	9120.6	13215.7	13347.1	13025.5	11997.9	7043.8
77.5°	907.6	953.5	1174.4	1540.7	1904.5	4950.3	9456.4	9599.3	9050.4	6605.9	2883.6
80°	528.5	579.5	773.6	894.8	874.4	1836.9	4815.0	5058.8	3918.9	1668.4	809.3
82.5°	293.6	328.1	543.8	545.1	465.9	600.0	1515.2	1585.4	1118.2	672.7	330.6
85°	213.2	241.3	351.0	317.8	223.4	257.9	527.2	552.7	451.9	283.4	107.2
87.5°	75.3	107.2	192.8	153.2	61.3	53.6	151.9	123.8	114.9	79.1	24.3
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°	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3	4216.3
2.5°	4239.3	4241.8	4229.1	4206.1	4183.1	4153.7	4120.6	4095.0	4083.5	4082.3	4081.0
5°	4285.2	4291.6	4243.1	4171.6	4092.5	3995.5	3912.5	3818.0	3793.8	3755.5	3767.0
7.5°	4359.3	4355.4	4259.7	4107.8	3922.7	3717.2	3543.6	3442.7	3338.1	3308.7	3310.0
10°	4465.2	4441.0	4259.7	3977.6	3668.7	3363.6	3121.1	2967.9	2884.9	2816.0	2790.4
12.5°	4577.5	4516.3	4218.9	3795.1	3341.9	2967.9	2707.5	2500.7	2447.1	2390.9	2392.2
15°	4684.8	4582.7	4138.4	3538.5	2989.6	2545.4	2292.6	2168.8	2152.2	2158.6	2157.3
17.5°	4781.8	4629.9	4015.9	3252.5	2578.5	2182.8	2048.8	2057.7	2102.4	2134.3	2138.1
20°	4880.1	4658.0	3833.3	2869.6	2190.5	1963.3	1968.4	2038.6	2106.2	2149.6	2156.0
22.5°	4973.3	4670.7	3618.9	2499.4	1909.7	1870.1	1945.4	2020.7	2087.1	2129.2	2135.6
25°	5034.5	4641.4	3315.1	2112.6	1771.8	1836.9	1916.0	1979.9	2036.0	2079.4	2089.6
27.5°	5051.1	4546.9	2938.5	1799.9	1708.0	1805.0	1877.7	1925.0	1968.4	2009.2	2016.9
30°	5042.2	4407.8	2524.9	1616.1	1670.9	1768.0	1824.1	1858.6	1910.9	1942.8	1949.2
32.5°	5028.2	4245.7	2093.5	1517.8	1640.3	1733.5	1766.7	1797.3	1796.0	1783.3	1792.2
35°	5033.3	4051.6	1743.7	1459.0	1613.5	1708.0	1736.0	1697.8	1588.0	1582.9	1577.8
37.5°	5060.1	3860.2	1489.7	1418.2	1599.5	1704.1	1719.5	1543.3	1446.3	1401.6	1390.1
40°	5129.0	3636.8	1322.5	1387.6	1598.2	1733.5	1644.1	1465.4	1279.1	1192.3	1185.9
42.5°	5220.9	3417.2	1220.3	1368.4	1613.5	1778.2	1613.5	1355.6	1152.7	1101.6	1094.0
45°	5357.5	3165.7	1164.2	1359.5	1636.5	1794.8	1603.3	1275.2	1101.6	1060.8	1060.8
47.5°	5512.0	2925.8	1133.5	1353.1	1665.8	1783.3	1512.7	1249.7	1077.4	1082.5	1106.7
50°	5665.1	2717.7	1110.6	1339.1	1691.4	1776.9	1475.6	1248.4	1083.8	1148.9	1192.3
52.5°	5842.6	2570.9	1082.5	1316.1	1691.4	1736.0	1464.2	1274.0	1101.6	1120.8	1139.9
55°	6057.0	2524.9	1046.7	1266.3	1660.7	1633.9	1457.8	1311.0	1114.4	1069.7	1077.4
57.5°	6340.4	2599.0	1012.3	1203.7	1590.5	1528.0	1455.2	1321.2	1085.0	1048.0	1040.4
60°	6669.7	2745.8	1002.1	1139.9	1494.8	1437.3	1439.9	1291.8	1044.2	1005.9	1012.3
62.5°	6900.8	2833.8	995.7	1091.4	1390.1	1337.8	1402.9	1256.1	1026.3	993.1	999.5
65°	6900.8	2726.6	937.0	1017.4	1254.8	1217.8	1358.2	1211.4	1003.3	965.0	958.7
67.5°	6639.1	2413.9	847.6	906.3	1105.5	1081.2	1295.7	1157.8	968.9	939.5	924.2
70°	5957.5	1830.5	735.3	776.1	916.5	938.2	1215.2	1085.0	911.4	875.7	852.7
71°	5657.5	1594.4	688.0	709.7	843.8	875.7	1176.9	1054.4	885.9	834.8	794.0
72.5°	5079.2	1342.9	616.6	625.5	721.2	778.7	1096.5	995.7	837.4	764.6	718.7
75°	3858.9	980.4	496.6	491.5	533.6	617.8	928.0	887.2	734.0	635.7	608.9
77.5°	1667.1	533.6	371.5	375.3	362.5	468.5	730.2	762.1	629.3	517.0	492.7
80°	505.5	307.6	254.0	259.1	242.5	314.0	514.4	597.4	505.5	402.1	368.9
82.5°	259.1	183.8	173.6	171.1	154.5	177.4	311.5	408.5	361.3	251.5	222.1
85°	112.3	98.3	85.5	83.0	72.8	63.8	111.1	204.2	191.5	140.4	134.0
87.5°	28.1	25.5	16.6	15.3	8.9	1.3	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)