

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: P193776

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL4-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24371 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

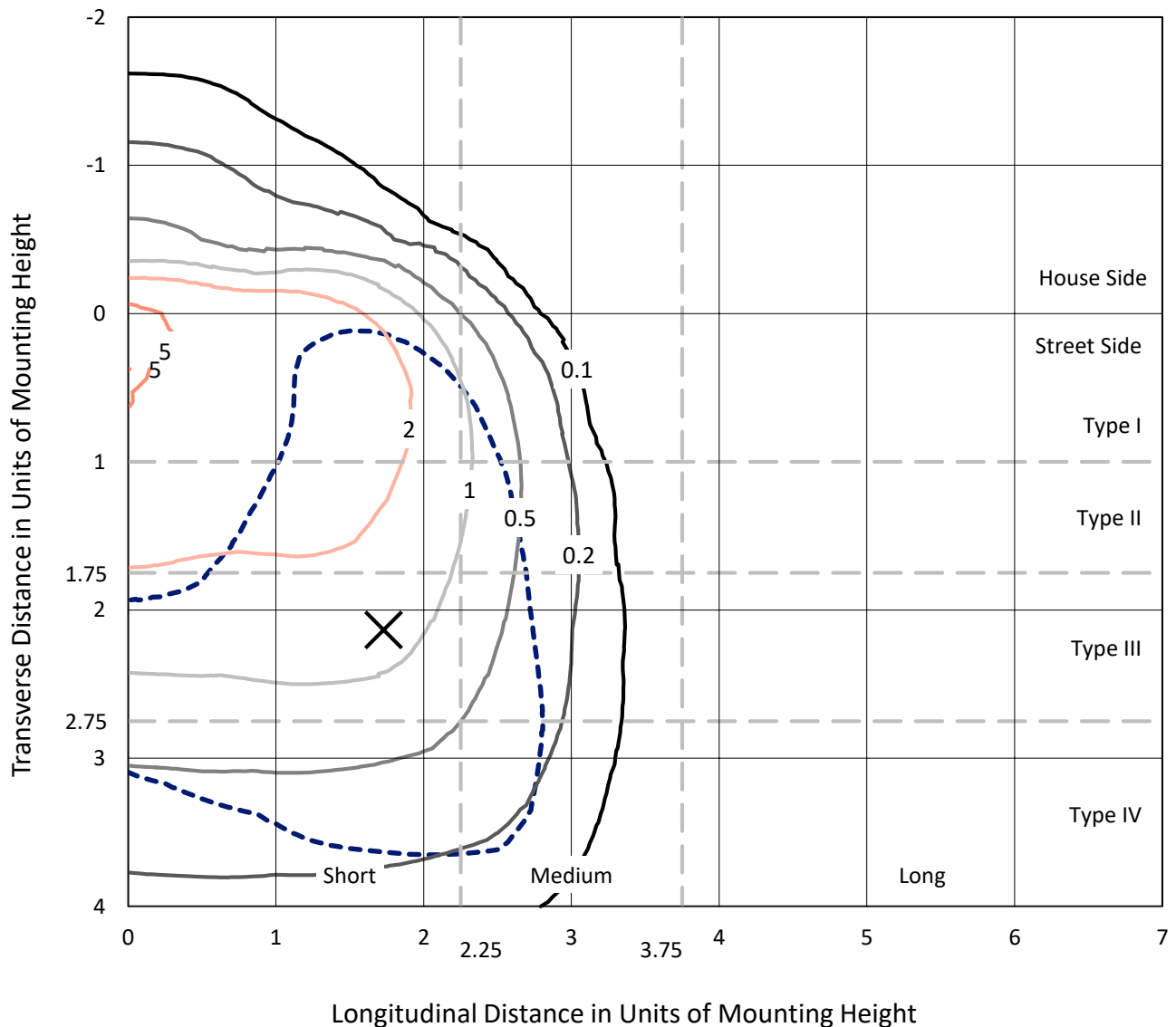
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

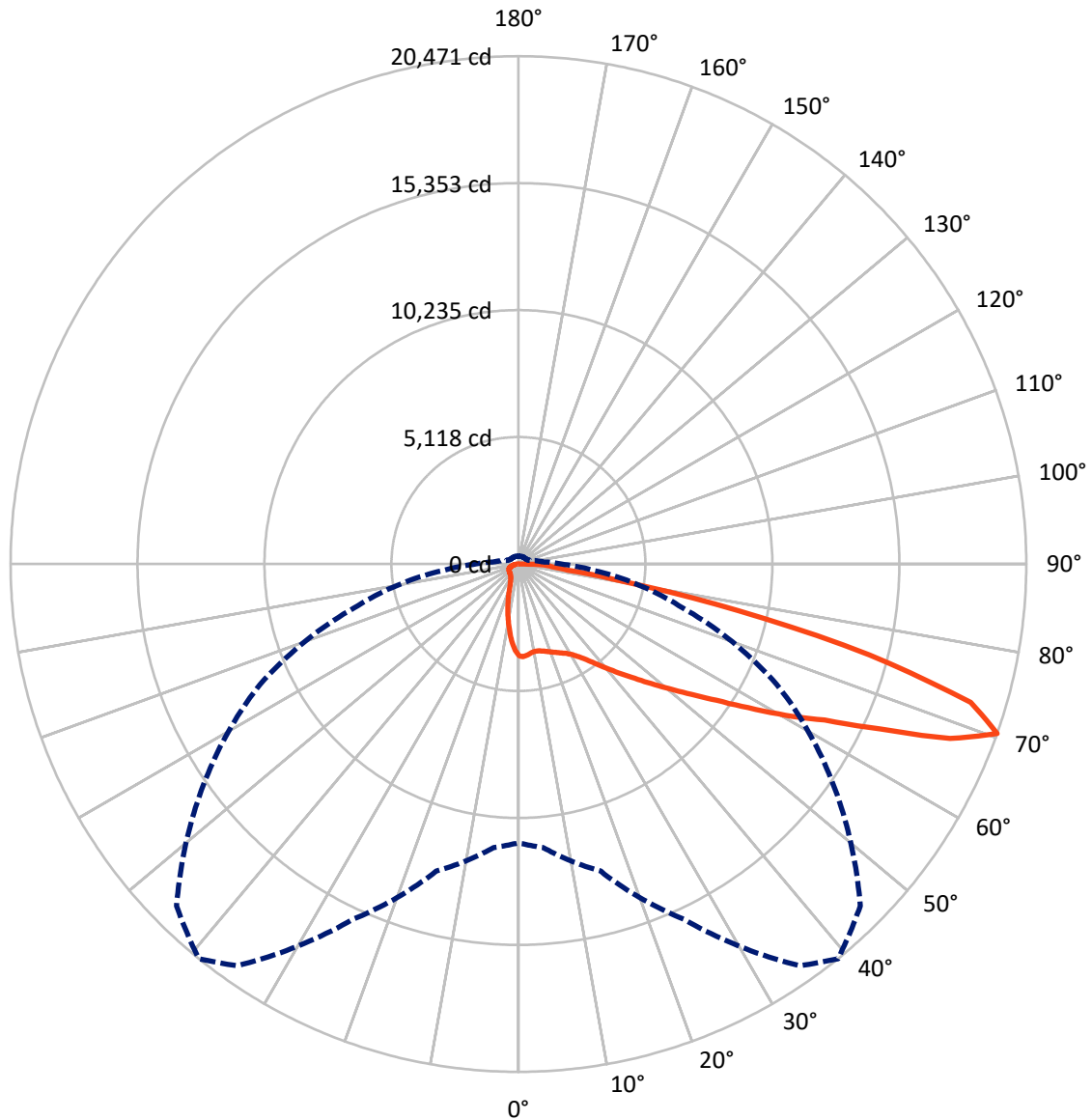
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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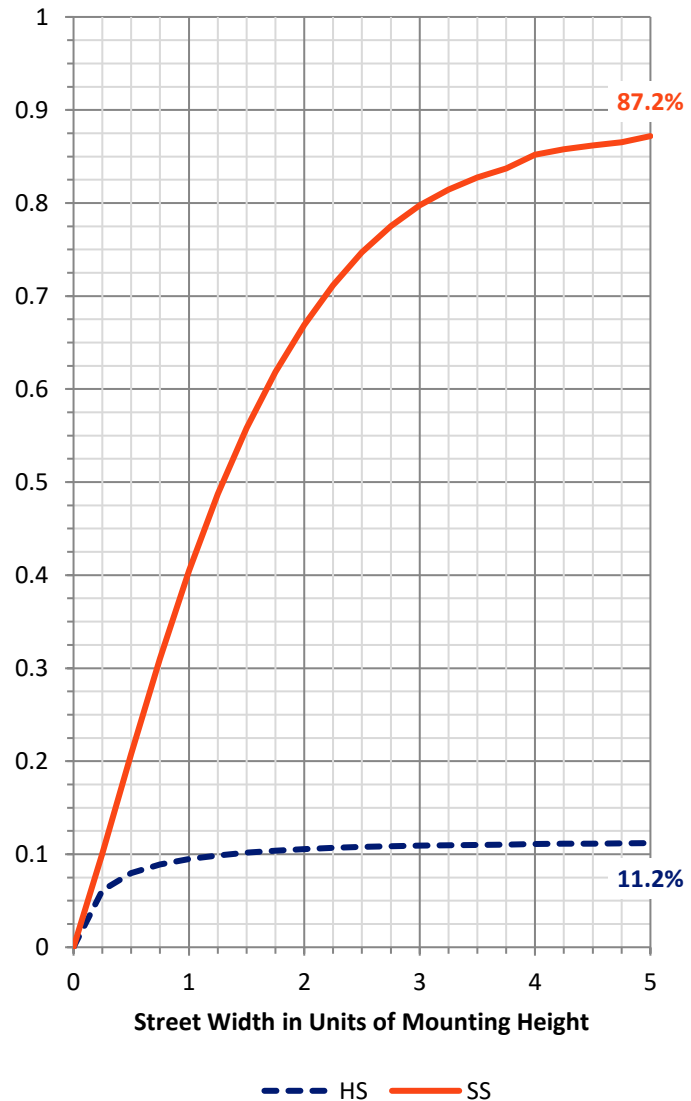
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2771.8	0.0	2771.8
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	21599.2	0.0	21599.2
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	24371.0	0.0	24371.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.5	1.3
10°-20°	793.7	3.3
20°-30°	1235.8	5.1
30°-40°	1925.1	7.9
40°-50°	3232.0	13.3
50°-60°	5134.2	21.1
60°-70°	6848.5	28.1
70°-80°	4135.6	17.0
80°-90°	748.5	3.1
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°	24371.0	100.0
0°-180°	24371.0	100.0



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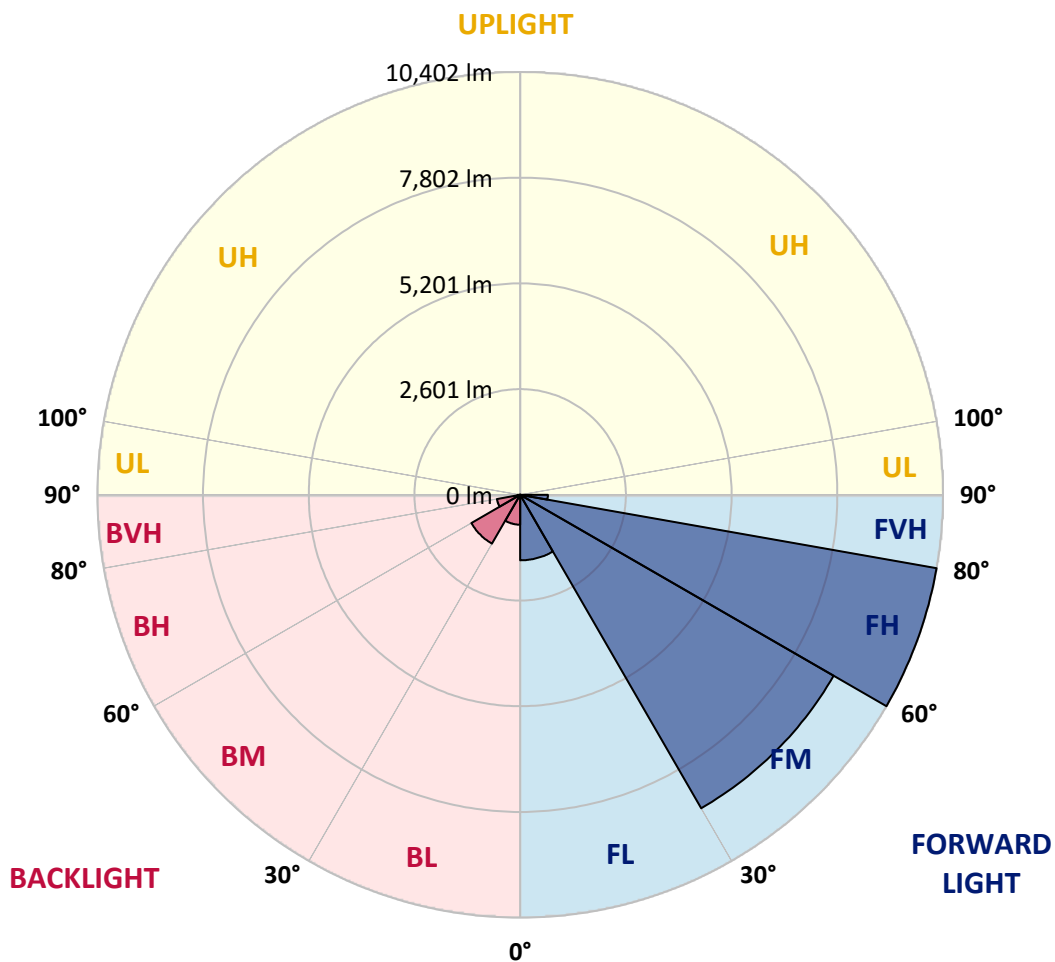
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1611.7	6.6			
FM	(30°-60°)	8904.2	36.5			
FH	(60°-80°)	10402.3	42.7			G4/12000
FVH	(80°-90°)	681.0	2.8			G4/750
BL	(0°-30°)	735.3	3.0	B2/1000		
BM	(30°-60°)	1387.1	5.7	B2/2500		
BH	(60°-80°)	581.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	67.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9
2.5°	3771.8	3770.5	3760.6	3753.2	3747.0	3744.5	3749.5	3730.9	3714.8	3694.9	3673.9
5°	3743.3	3742.0	3725.9	3711.0	3696.2	3691.2	3690.0	3656.5	3636.7	3607.0	3567.3
7.5°	3712.3	3706.1	3685.0	3660.2	3634.2	3621.8	3609.4	3566.1	3543.8	3514.0	3468.2
10°	3680.1	3672.6	3652.8	3628.0	3603.2	3584.7	3563.6	3521.5	3497.9	3475.6	3422.3
12.5°	3646.6	3640.4	3635.5	3624.3	3607.0	3590.9	3574.7	3538.8	3514.0	3488.0	3426.1
15°	3641.7	3639.2	3650.3	3657.8	3647.9	3637.9	3620.6	3589.6	3563.6	3537.6	3457.0
17.5°	3681.3	3680.1	3708.6	3728.4	3723.4	3706.1	3682.5	3647.9	3626.8	3604.5	3504.1
20°	3768.0	3774.2	3808.9	3835.0	3810.2	3785.4	3747.0	3698.7	3687.5	3677.6	3552.4
22.5°	3931.6	3937.8	3962.6	3972.5	3908.1	3872.1	3818.8	3756.9	3749.5	3756.9	3610.7
25°	4186.9	4180.7	4176.9	4139.8	4022.1	3966.3	3898.1	3833.7	3837.4	3870.9	3692.5
27.5°	4525.1	4491.7	4439.6	4328.1	4141.0	4079.1	3996.0	3936.6	3960.1	4024.5	3815.1
30°	4875.8	4838.6	4718.4	4536.3	4297.1	4229.0	4136.1	4069.1	4131.1	4232.7	3978.7
32.5°	5200.4	5195.5	5019.5	4785.3	4512.7	4453.3	4360.3	4284.7	4385.1	4540.0	4224.0
35°	5554.8	5566.0	5355.3	5074.0	4803.9	4742.0	4675.1	4618.1	4751.9	4965.0	4579.6
37.5°	5934.0	5956.3	5707.2	5390.0	5136.0	5110.0	5070.3	5045.5	5252.5	5547.4	5076.5
40°	6440.7	6418.4	6072.7	5746.9	5543.6	5542.4	5530.0	5559.8	5904.2	6308.2	5714.6
42.5°	6983.5	6917.8	6460.6	6129.7	5991.0	6033.1	6057.9	6179.3	6688.6	7232.5	6492.8
45°	7568.3	7420.9	6863.3	6534.9	6487.8	6577.0	6661.3	6925.2	7611.7	8284.5	7345.3
47.5°	8035.4	7892.9	7279.6	6959.9	7062.8	7197.8	7360.1	7777.7	8645.1	9371.2	8186.6
50°	8403.4	8310.5	7699.6	7455.5	7695.9	7904.1	8169.3	8743.0	9720.6	10429.3	8966.0
52.5°	8760.3	8690.9	8123.4	7963.6	8439.4	8726.8	9087.4	9778.8	10823.4	11470.2	9621.5
55°	9082.5	9032.9	8579.4	8596.7	9314.2	9688.4	10141.9	10958.4	12025.3	12398.2	10176.6
57.5°	9445.5	9382.3	9099.8	9391.0	10438.0	10923.7	11513.5	12284.2	13152.8	13223.5	10599.1
60°	9811.0	9756.5	9677.2	10307.9	11865.4	12375.9	12934.8	13569.2	14296.5	13864.1	10574.3
62.5°	10128.2	10134.4	10274.5	11270.7	13263.1	13854.2	14535.7	15162.6	15331.1	13975.6	9792.5
65°	10666.0	10763.9	11181.5	12633.7	15230.8	16021.3	16857.7	16757.3	15617.4	12933.5	8116.0
67.5°	11305.4	11477.6	12323.9	14450.2	17717.6	18767.1	19090.5	17117.9	14471.2	10513.6	5785.3
70°	11240.9	11477.6	12817.1	15804.5	19767.1	20470.9	19489.5	15492.2	11491.2	6868.2	3072.9
72.5°	9982.0	10320.3	11812.2	15183.7	19121.5	19059.5	16919.6	11549.5	6827.3	2758.2	1200.7
75°	7608.0	7949.9	9233.6	11995.5	15113.1	14592.7	12005.5	6380.0	2590.9	1095.3	757.1
77.5°	4376.4	4641.6	5632.9	7356.4	9588.0	9054.0	6682.4	2837.5	1261.4	763.3	591.0
80°	2443.5	2590.9	3193.1	3732.1	4698.6	4307.0	2989.9	1763.2	941.7	553.9	456.0
82.5°	1931.7	2063.1	2582.2	2354.3	2146.1	1980.1	1717.4	1569.9	752.1	349.4	272.6
85°	1687.6	1812.8	2185.7	1853.7	1465.8	1344.4	1395.2	1545.1	584.8	210.6	232.9
87.5°	1563.7	1731.0	1947.8	1428.7	1141.2	1011.1	1287.4	1693.8	188.3	131.3	94.2
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°	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9	3699.9
2.5°	3655.3	3635.5	3603.2	3574.7	3530.1	3506.6	3480.6	3462.0	3447.1	3434.7	3454.6
5°	3542.5	3505.4	3437.2	3364.1	3277.4	3209.2	3152.2	3098.9	3061.8	3037.0	3054.3
7.5°	3436.0	3375.3	3268.7	3136.1	2987.4	2861.0	2757.0	2665.3	2602.1	2561.2	2577.3
10°	3375.3	3299.7	3134.9	2926.7	2707.4	2510.4	2346.8	2205.6	2107.7	2051.9	2060.6
12.5°	3360.4	3262.5	3034.5	2748.3	2448.4	2174.6	1944.1	1748.3	1610.8	1538.9	1541.4
15°	3371.5	3246.4	2940.3	2577.3	2198.1	1852.4	1565.0	1327.1	1167.2	1085.4	1084.2
17.5°	3390.1	3234.0	2841.2	2392.7	1944.1	1542.7	1221.7	988.8	847.5	781.9	776.9
20°	3410.0	3214.2	2729.7	2193.2	1680.2	1255.2	956.6	774.4	685.2	649.3	646.8
22.5°	3438.4	3196.8	2614.5	1982.5	1421.2	1022.2	786.8	664.1	617.1	598.5	596.0
25°	3484.3	3188.2	2491.8	1763.2	1188.3	855.0	685.2	609.6	582.4	570.0	568.7
27.5°	3561.1	3200.5	2376.6	1550.1	998.7	742.2	628.2	582.4	562.5	551.4	550.2
30°	3660.2	3239.0	2255.1	1348.1	851.2	665.4	593.5	563.8	547.7	536.5	536.5
32.5°	3825.0	3303.4	2127.5	1173.4	745.9	612.1	567.5	547.7	534.0	525.4	524.1
35°	4067.9	3424.8	2008.6	1028.4	670.3	573.7	545.2	530.3	520.4	515.5	515.5
37.5°	4421.0	3616.9	1903.2	924.4	624.5	547.7	524.1	513.0	506.8	506.8	506.8
40°	4895.6	3882.0	1817.7	855.0	598.5	529.1	508.0	499.3	495.6	496.9	496.9
42.5°	5481.7	4226.5	1760.7	806.6	586.1	517.9	496.9	489.4	485.7	484.5	485.7
45°	6149.6	4618.1	1754.5	770.7	573.7	510.5	489.4	482.0	474.6	469.6	469.6
47.5°	6798.8	5015.8	1805.3	758.3	560.1	501.8	483.2	475.8	464.7	453.5	453.5
50°	7372.5	5354.1	1873.5	763.3	555.1	489.4	473.3	469.6	452.3	439.9	438.6
52.5°	7828.5	5614.3	1929.2	778.1	560.1	480.8	460.9	462.2	443.6	430.0	428.7
55°	8194.0	5785.3	1914.4	793.0	571.2	475.8	449.8	452.3	437.4	423.8	423.8
57.5°	8353.9	5722.1	1749.6	780.6	579.9	477.0	441.1	451.0	438.6	426.2	426.2
60°	8010.7	5160.8	1441.1	726.1	568.7	473.3	437.4	456.0	454.7	442.4	441.1
62.5°	6972.3	4155.9	1117.7	645.6	530.3	454.7	427.5	454.7	468.4	464.7	463.4
65°	5373.9	2960.2	853.7	558.8	478.3	423.8	401.5	426.2	444.8	449.8	448.5
67.5°	3488.0	1814.0	658.0	477.0	420.0	387.8	368.0	379.2	382.9	382.9	380.4
70°	1714.9	976.4	524.1	401.5	360.6	349.4	338.3	332.1	325.9	320.9	320.9
72.5°	846.3	638.1	431.2	339.5	311.0	306.1	303.6	296.1	291.2	285.0	282.5
75°	625.7	519.2	366.8	286.2	267.6	262.7	267.6	261.4	260.2	255.3	252.8
77.5°	514.2	442.4	316.0	245.3	229.2	220.6	228.0	229.2	230.5	223.0	220.6
80°	417.6	374.2	263.9	203.2	188.3	182.1	187.1	197.0	199.5	188.3	183.4
82.5°	301.1	306.1	213.1	158.6	146.2	141.3	151.2	163.6	166.0	149.9	146.2
85°	252.8	255.3	163.6	112.8	100.4	92.9	109.0	121.4	130.1	114.0	110.3
87.5°	105.3	149.9	94.2	63.2	55.8	48.3	58.2	64.4	78.1	71.9	70.6
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)