

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: P193793

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193793  
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-05-LED-E1-SL4-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA 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: 23068 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

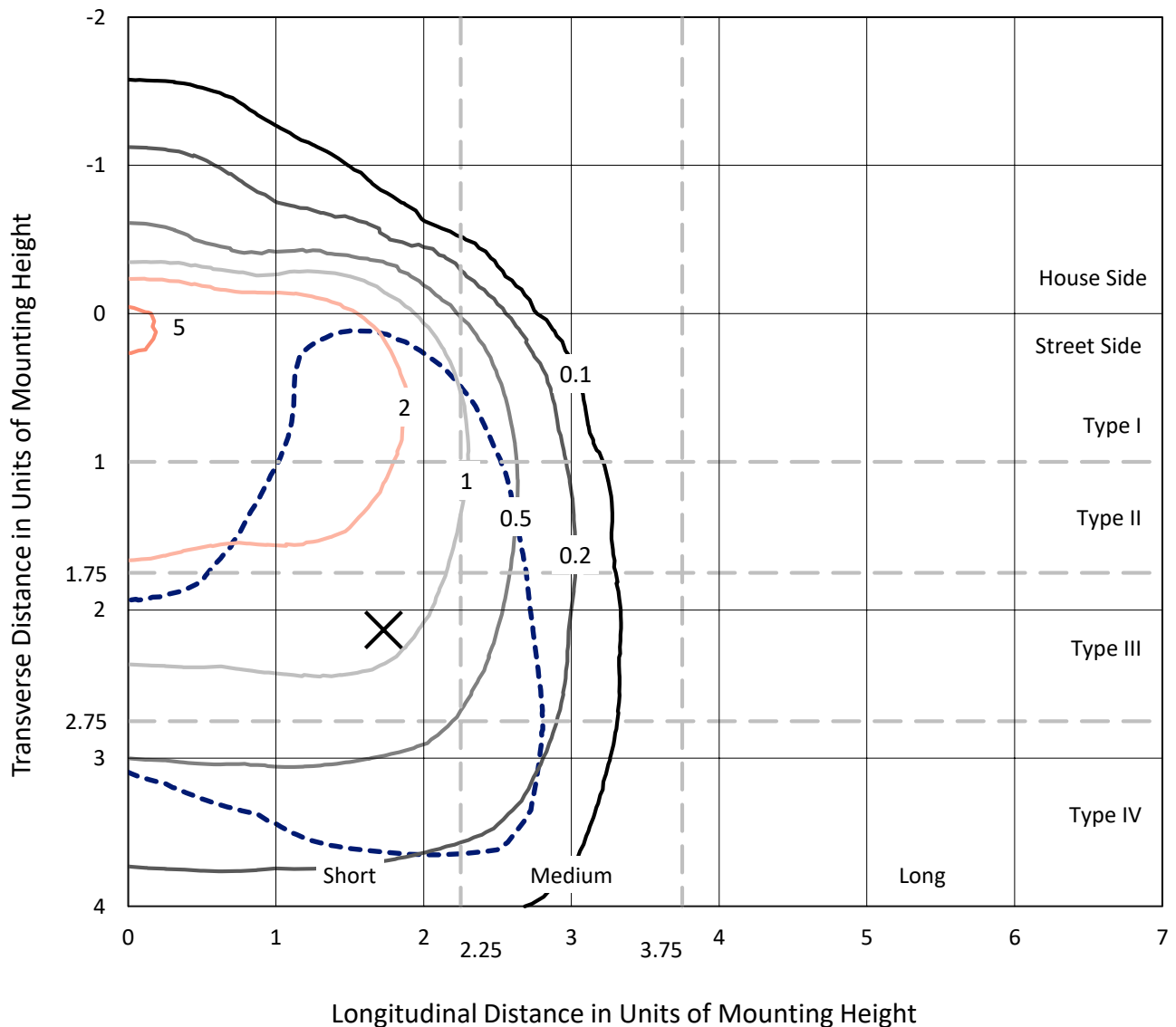
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

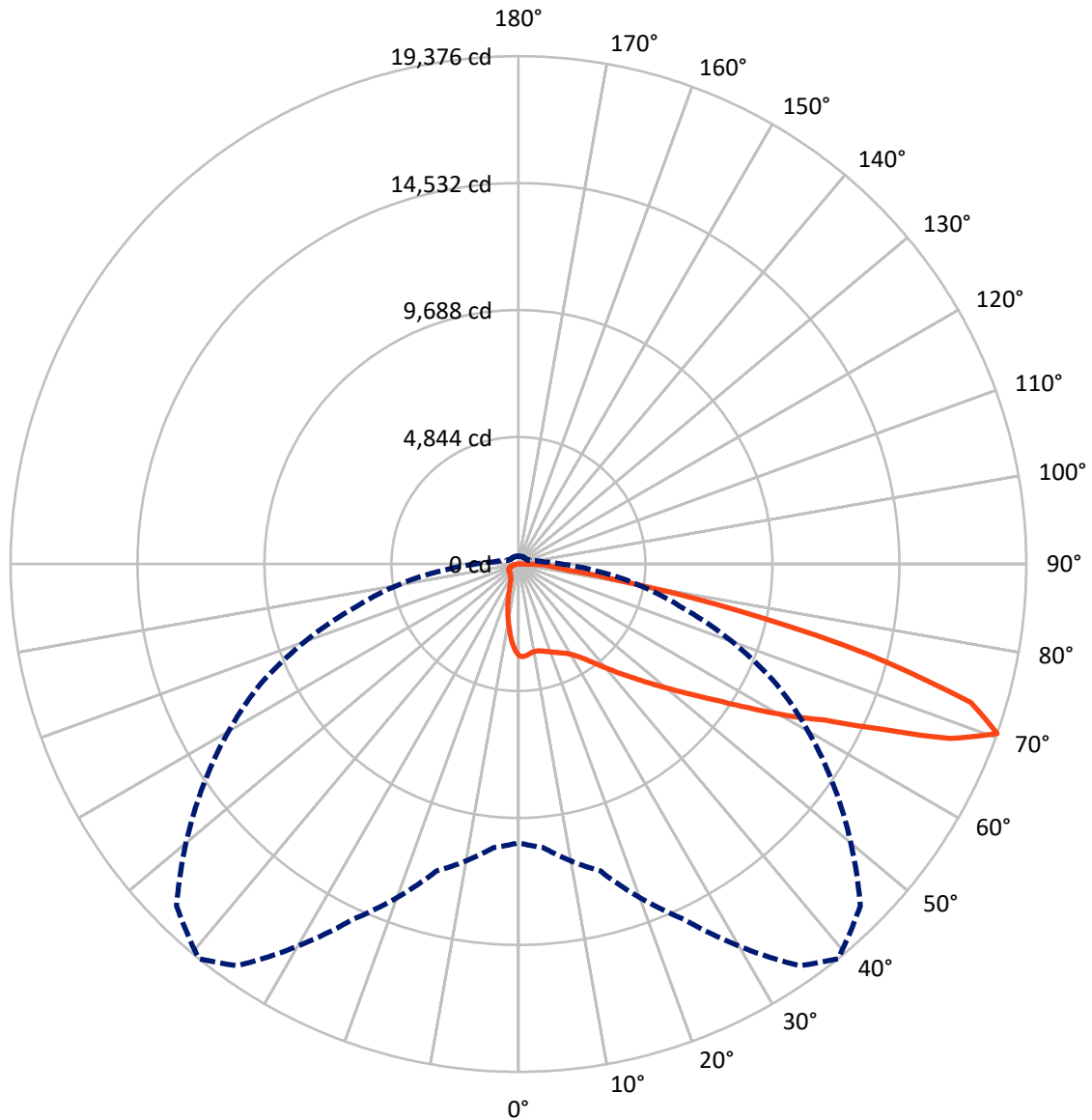
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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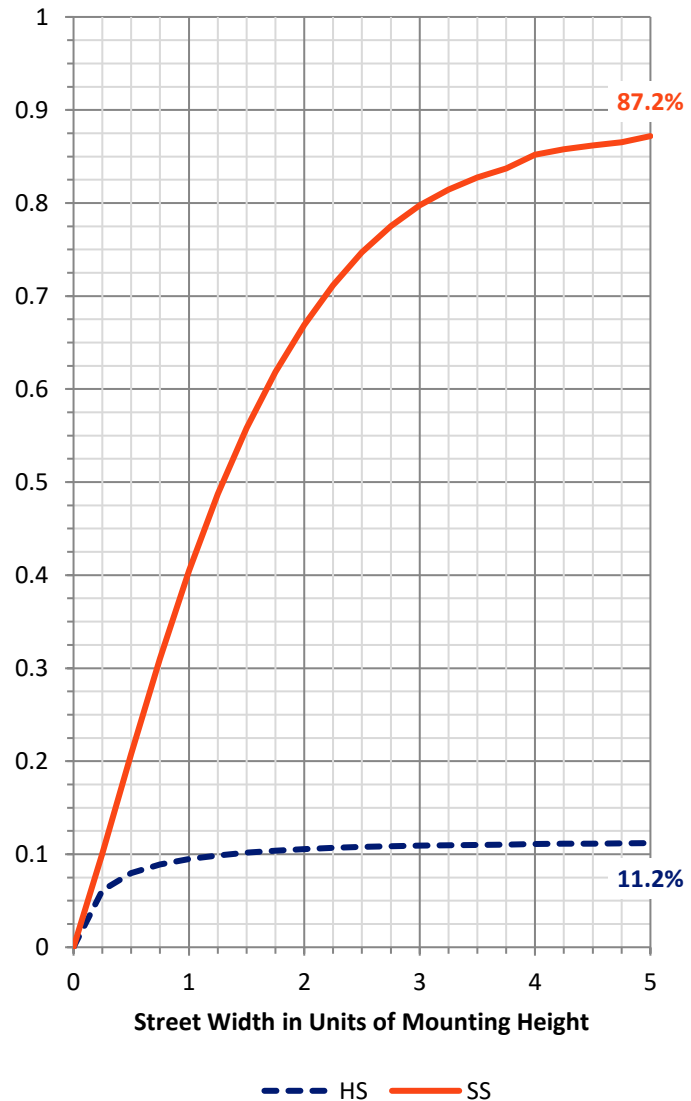
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2623.6	0.0	2623.6
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	20444.4	0.0	20444.4
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	23068.0	0.0	23068.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.5	1.3
10°-20°	751.2	3.3
20°-30°	1169.7	5.1
30°-40°	1822.2	7.9
40°-50°	3059.2	13.3
50°-60°	4859.7	21.1
60°-70°	6482.4	28.1
70°-80°	3914.5	17.0
80°-90°	708.5	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°	23068.0	100.0
0°-180°	23068.0	100.0



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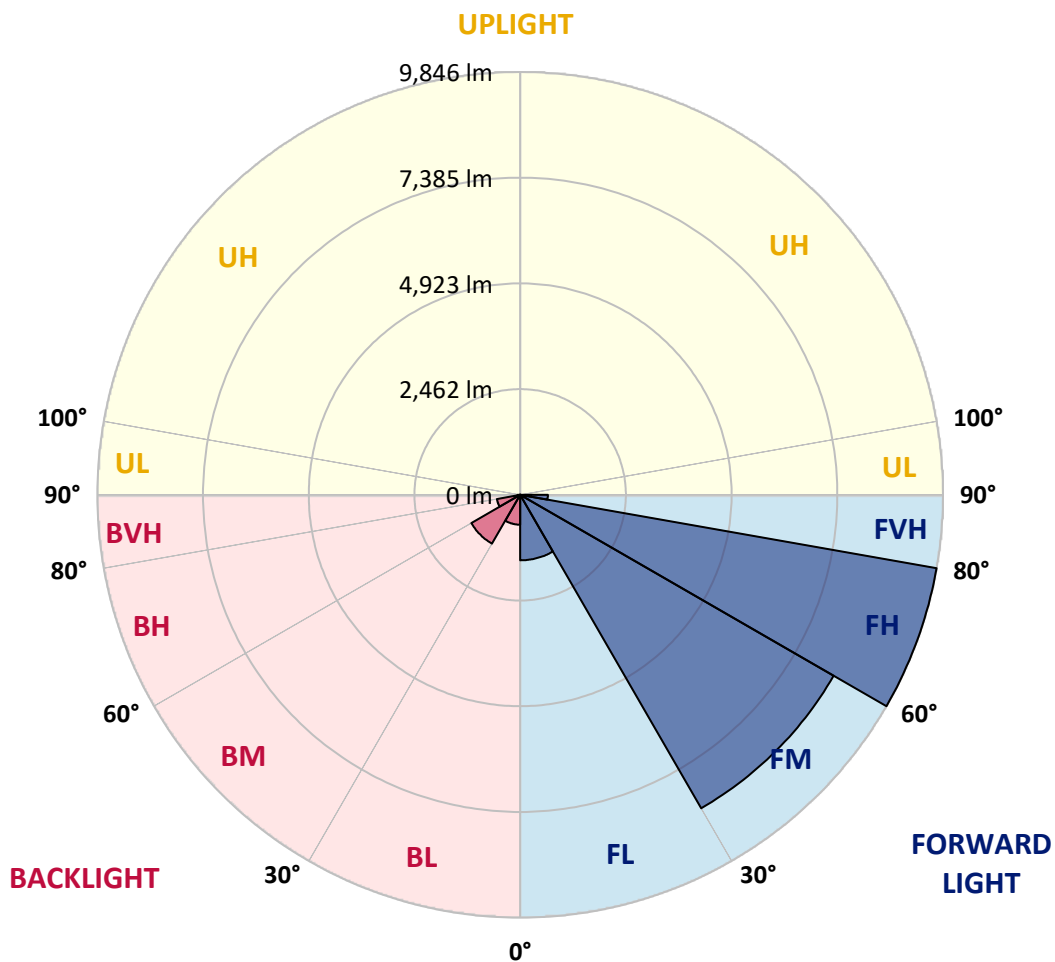
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.5	6.6			
FM	(30°-60°)	8428.2	36.5			
FH	(60°-80°)	9846.1	42.7			G4/12000
FVH	(80°-90°)	644.6	2.8			G4/750
BL	(0°-30°)	696.0	3.0	B2/1000		
BM	(30°-60°)	1313.0	5.7	B2/2500		
BH	(60°-80°)	550.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	63.9	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°	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1
2.5°	3570.1	3568.9	3559.5	3552.5	3546.6	3544.3	3549.0	3531.4	3516.2	3497.4	3477.5
5°	3543.1	3542.0	3526.7	3512.6	3498.6	3493.9	3492.7	3461.0	3442.3	3414.1	3376.6
7.5°	3513.8	3507.9	3488.0	3464.5	3439.9	3428.2	3416.5	3375.4	3354.3	3326.2	3282.8
10°	3483.3	3476.3	3457.5	3434.1	3410.6	3393.0	3373.1	3333.2	3310.9	3289.8	3239.4
12.5°	3451.6	3445.8	3441.1	3430.5	3414.1	3398.9	3383.6	3349.6	3326.2	3301.5	3242.9
15°	3447.0	3444.6	3455.2	3462.2	3452.8	3443.4	3427.0	3397.7	3373.1	3348.4	3272.2
17.5°	3484.5	3483.3	3510.3	3529.1	3524.4	3507.9	3485.7	3452.8	3432.9	3411.8	3316.8
20°	3566.6	3572.4	3605.3	3629.9	3606.5	3583.0	3546.6	3500.9	3490.4	3481.0	3362.5
22.5°	3721.4	3727.3	3750.7	3760.1	3699.1	3665.1	3614.7	3556.0	3549.0	3556.0	3417.6
25°	3963.0	3957.1	3953.6	3918.4	3807.0	3754.2	3689.7	3628.7	3632.3	3663.9	3495.0
27.5°	4283.2	4251.5	4202.3	4096.7	3919.6	3861.0	3782.4	3726.1	3748.4	3809.4	3611.2
30°	4615.1	4579.9	4466.1	4293.7	4067.4	4002.9	3914.9	3851.6	3910.2	4006.4	3766.0
32.5°	4922.4	4917.7	4751.1	4529.5	4271.5	4215.2	4127.2	4055.7	4150.7	4297.3	3998.2
35°	5257.8	5268.4	5069.0	4802.8	4547.1	4488.4	4425.1	4371.1	4497.8	4699.5	4334.8
37.5°	5616.7	5637.8	5402.1	5101.8	4861.4	4836.8	4799.2	4775.8	4971.6	5250.8	4805.1
40°	6096.4	6075.3	5748.1	5439.6	5247.3	5246.1	5234.4	5262.5	5588.6	5970.9	5409.1
42.5°	6610.1	6547.9	6115.2	5802.0	5670.6	5710.5	5734.0	5848.9	6331.0	6845.8	6145.6
45°	7163.7	7024.1	6496.3	6185.5	6141.0	6225.4	6305.2	6555.0	7204.7	7841.6	6952.6
47.5°	7605.8	7470.9	6890.4	6587.8	6685.1	6813.0	6966.6	7361.9	8182.9	8870.1	7748.9
50°	7954.2	7866.2	7288.0	7056.9	7284.5	7481.5	7732.5	8275.5	9200.9	9871.7	8486.6
52.5°	8291.9	8226.3	7689.1	7537.8	7988.2	8260.3	8601.6	9256.0	10244.7	10856.9	9107.0
55°	8596.9	8550.0	8120.7	8137.1	8816.2	9170.4	9599.6	10372.5	11382.3	11735.4	9632.5
57.5°	8940.5	8880.7	8613.3	8888.9	9879.9	10339.7	10898.0	11627.5	12449.6	12516.5	10032.4
60°	9286.5	9234.9	9159.8	9756.8	11231.1	11714.3	12243.2	12843.7	13532.1	13122.8	10009.0
62.5°	9586.7	9592.6	9725.1	10668.1	12554.0	13113.4	13758.5	14352.0	14511.5	13228.4	9268.9
65°	10095.7	10188.4	10583.6	11958.2	14416.5	15164.7	15956.4	15861.4	14782.4	12242.0	7682.1
67.5°	10700.9	10864.0	11665.0	13677.6	16770.3	17763.7	18069.8	16202.7	13697.5	9951.5	5476.0
70°	10639.9	10864.0	12131.8	14959.5	18710.2	19376.4	18447.5	14663.9	10876.9	6501.0	2908.6
72.5°	9448.3	9768.5	11180.6	14371.9	18099.2	18040.5	16015.0	10932.0	6462.3	2610.7	1136.5
75°	7201.2	7524.9	8740.0	11354.2	14305.0	13812.5	11363.6	6038.9	2452.4	1036.8	716.6
77.5°	4142.4	4393.4	5331.7	6963.1	9075.4	8569.9	6325.1	2685.8	1193.9	722.5	559.4
80°	2312.8	2452.4	3022.4	3532.6	4447.4	4076.8	2830.0	1668.9	891.4	524.3	431.6
82.5°	1828.4	1952.8	2444.2	2228.4	2031.3	1874.2	1625.5	1486.0	711.9	330.7	258.0
85°	1597.4	1715.9	2068.9	1754.6	1387.5	1272.5	1320.6	1462.5	553.6	199.4	220.5
87.5°	1480.1	1638.4	1843.7	1352.3	1080.2	957.0	1218.6	1603.3	178.3	124.3	89.1
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°	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1	3502.1
2.5°	3459.9	3441.1	3410.6	3383.6	3341.4	3319.1	3294.5	3276.9	3262.8	3251.1	3269.9
5°	3353.1	3317.9	3253.4	3184.2	3102.1	3037.6	2983.7	2933.3	2898.1	2874.6	2891.0
7.5°	3252.3	3194.8	3093.9	2968.4	2827.7	2708.1	2609.6	2522.8	2462.9	2424.2	2439.5
10°	3194.8	3123.3	2967.3	2770.2	2562.6	2376.2	2221.3	2087.6	1995.0	1942.2	1950.4
12.5°	3180.7	3088.1	2872.3	2601.3	2317.5	2058.3	1840.2	1654.9	1524.7	1456.7	1459.0
15°	3191.3	3072.8	2783.1	2439.5	2080.6	1753.4	1481.3	1256.1	1104.8	1027.4	1026.2
17.5°	3208.9	3061.1	2689.3	2264.7	1840.2	1460.2	1156.4	935.9	802.2	740.1	735.4
20°	3227.6	3042.3	2583.8	2075.9	1590.4	1188.1	905.4	733.0	648.6	614.6	612.2
22.5°	3254.6	3025.9	2474.7	1876.5	1345.2	967.6	744.7	628.6	584.1	566.5	564.1
25°	3298.0	3017.7	2358.6	1668.9	1124.7	809.3	648.6	577.0	551.2	539.5	538.3
27.5°	3370.7	3029.4	2249.5	1467.2	945.3	702.5	594.6	551.2	532.5	521.9	520.7
30°	3464.5	3065.8	2134.6	1276.0	805.7	629.8	561.8	533.6	518.4	507.8	507.8
32.5°	3620.5	3126.8	2013.8	1110.7	706.0	579.4	537.2	518.4	505.5	497.3	496.1
35°	3850.4	3241.7	1901.2	973.5	634.5	543.0	516.0	502.0	492.6	487.9	487.9
37.5°	4184.7	3423.5	1801.5	874.9	591.1	518.4	496.1	485.6	479.7	479.7	479.7
40°	4633.9	3674.5	1720.5	809.3	566.5	500.8	480.9	472.7	469.1	470.3	470.3
42.5°	5188.6	4000.5	1666.6	763.5	554.8	490.2	470.3	463.3	459.8	458.6	459.8
45°	5820.8	4371.1	1660.7	729.5	543.0	483.2	463.3	456.2	449.2	444.5	444.5
47.5°	6435.3	4747.6	1708.8	717.8	530.1	475.0	457.4	450.4	439.8	429.3	429.3
50°	6978.4	5067.8	1773.3	722.5	525.4	463.3	448.0	444.5	428.1	416.4	415.2
52.5°	7410.0	5314.1	1826.1	736.5	530.1	455.1	436.3	437.5	419.9	407.0	405.8
55°	7755.9	5476.0	1812.0	750.6	540.7	450.4	425.7	428.1	414.0	401.1	401.1
57.5°	7907.2	5416.1	1656.0	738.9	548.9	451.5	417.5	426.9	415.2	403.5	403.5
60°	7582.4	4884.9	1364.0	687.3	538.3	448.0	414.0	431.6	430.4	418.7	417.5
62.5°	6599.5	3933.7	1057.9	611.0	502.0	430.4	404.6	430.4	443.3	439.8	438.6
65°	5086.6	2801.9	808.1	528.9	452.7	401.1	380.0	403.5	421.0	425.7	424.6
67.5°	3301.5	1717.0	622.8	451.5	397.6	367.1	348.3	358.9	362.4	362.4	360.1
70°	1623.2	924.2	496.1	380.0	341.3	330.7	320.2	314.3	308.5	303.8	303.8
72.5°	801.0	604.0	408.1	321.4	294.4	289.7	287.3	280.3	275.6	269.8	267.4
75°	592.3	491.4	347.2	270.9	253.3	248.6	253.3	247.5	246.3	241.6	239.3
77.5°	486.7	418.7	299.1	232.2	217.0	208.8	215.8	217.0	218.1	211.1	208.8
80°	395.2	354.2	249.8	192.3	178.3	172.4	177.1	186.5	188.8	178.3	173.6
82.5°	285.0	289.7	201.7	150.1	138.4	133.7	143.1	154.8	157.2	141.9	138.4
85°	239.3	241.6	154.8	106.7	95.0	88.0	103.2	114.9	123.1	107.9	104.4
87.5°	99.7	141.9	89.1	59.8	52.8	45.7	55.1	61.0	73.9	68.0	66.9
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)