

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: P650966

Luminaire Tested: **GALN-SA6C-840-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25179.5 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

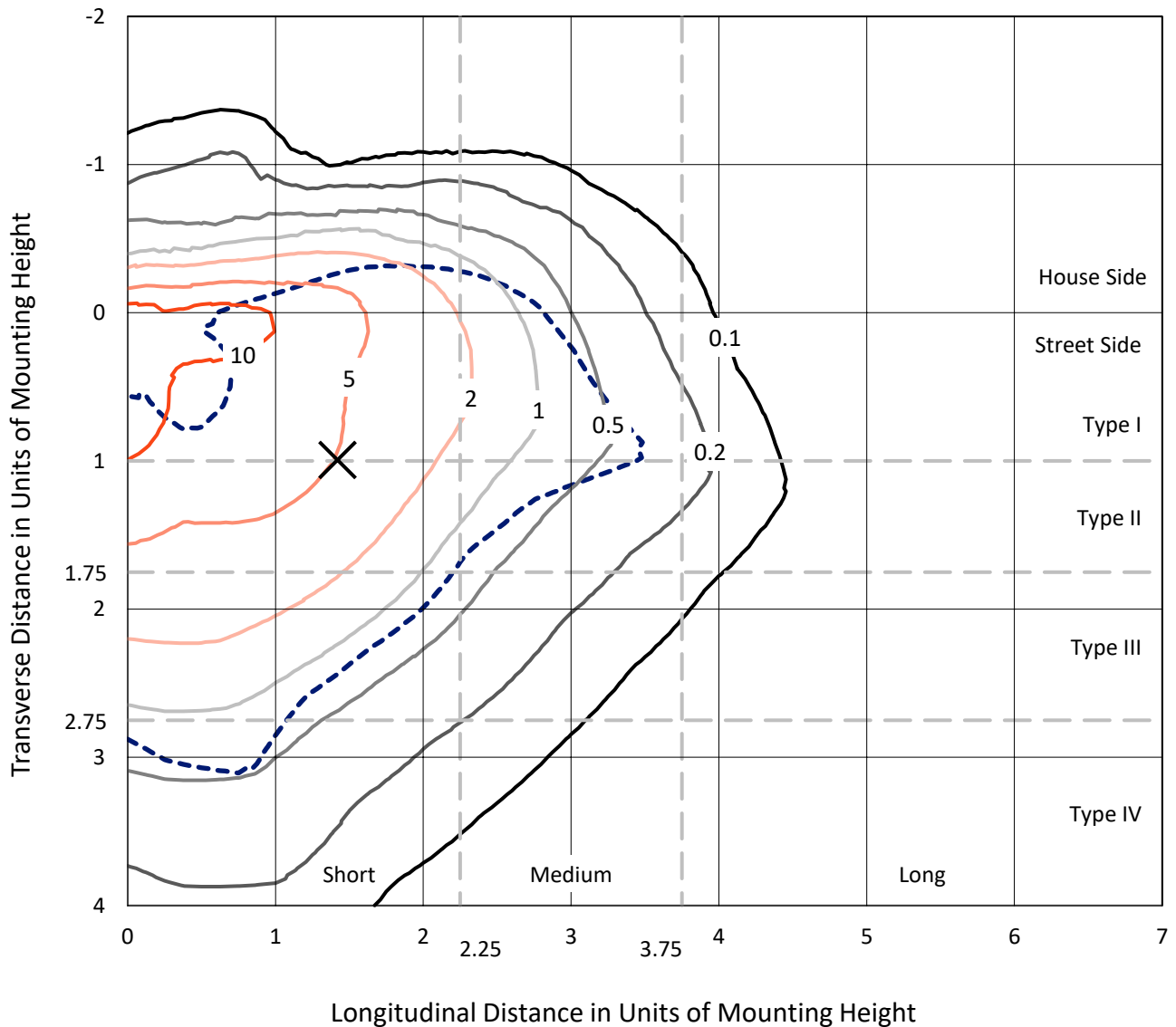
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

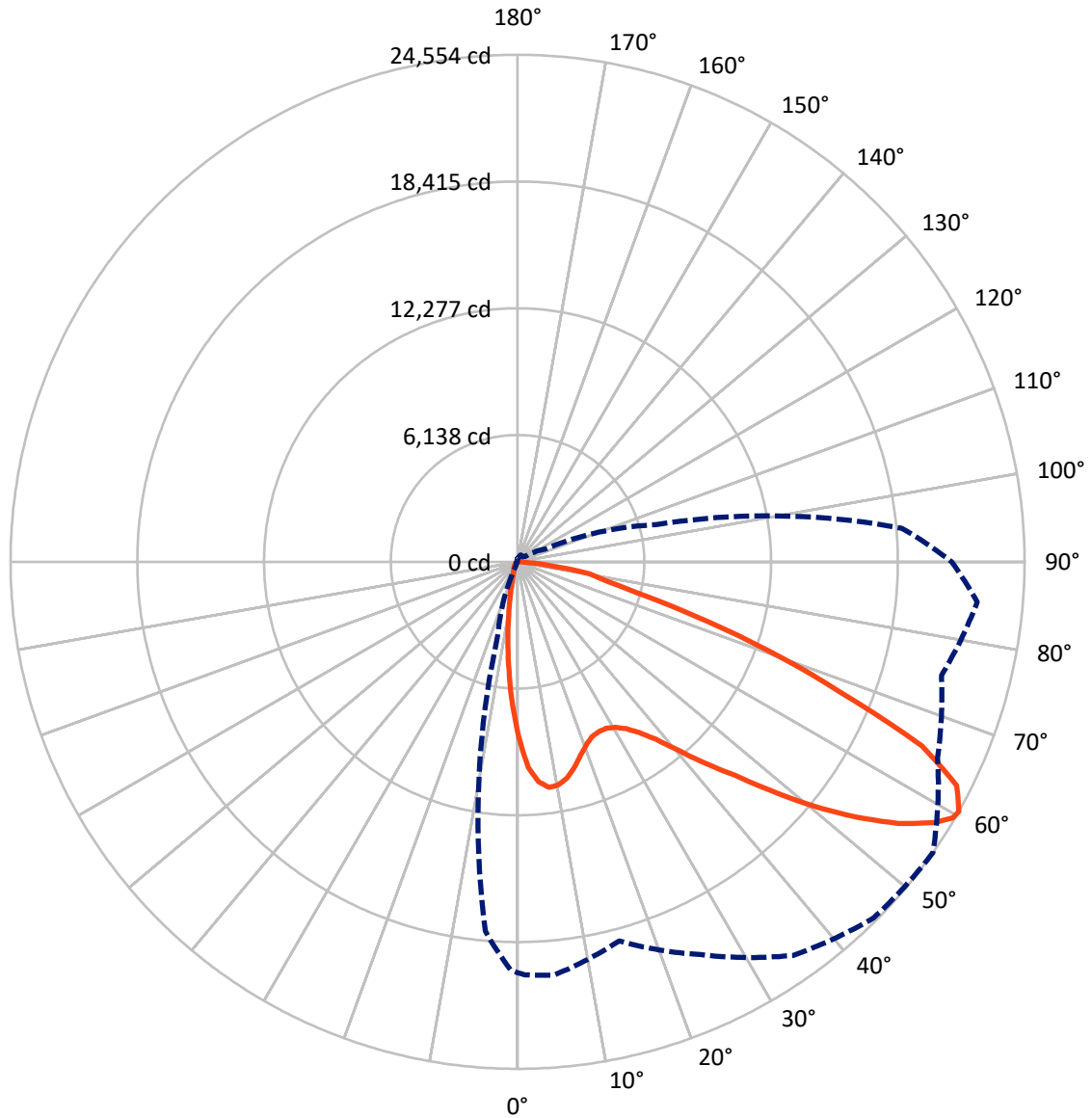
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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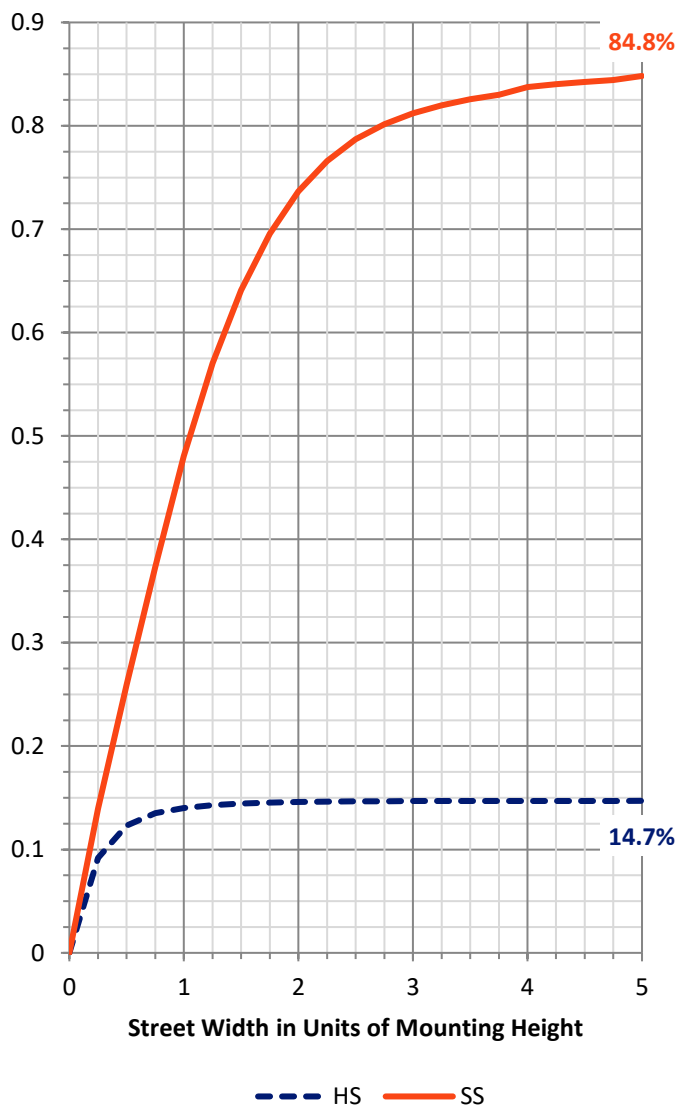
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3736.8	0.0	3736.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	21442.7	0.0	21442.7
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	25179.5	0.0	25179.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.3	2.5
10°-20°	1243.3	4.9
20°-30°	1840.2	7.3
30°-40°	2743.1	10.9
40°-50°	4017.3	16.0
50°-60°	5799.7	23.0
60°-70°	6101.0	24.2
70°-80°	2509.7	10.0
80°-90°	293.9	1.2
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°	25179.5	100.0
0°-180°	25179.5	100.0

**Coefficient of Utilization**

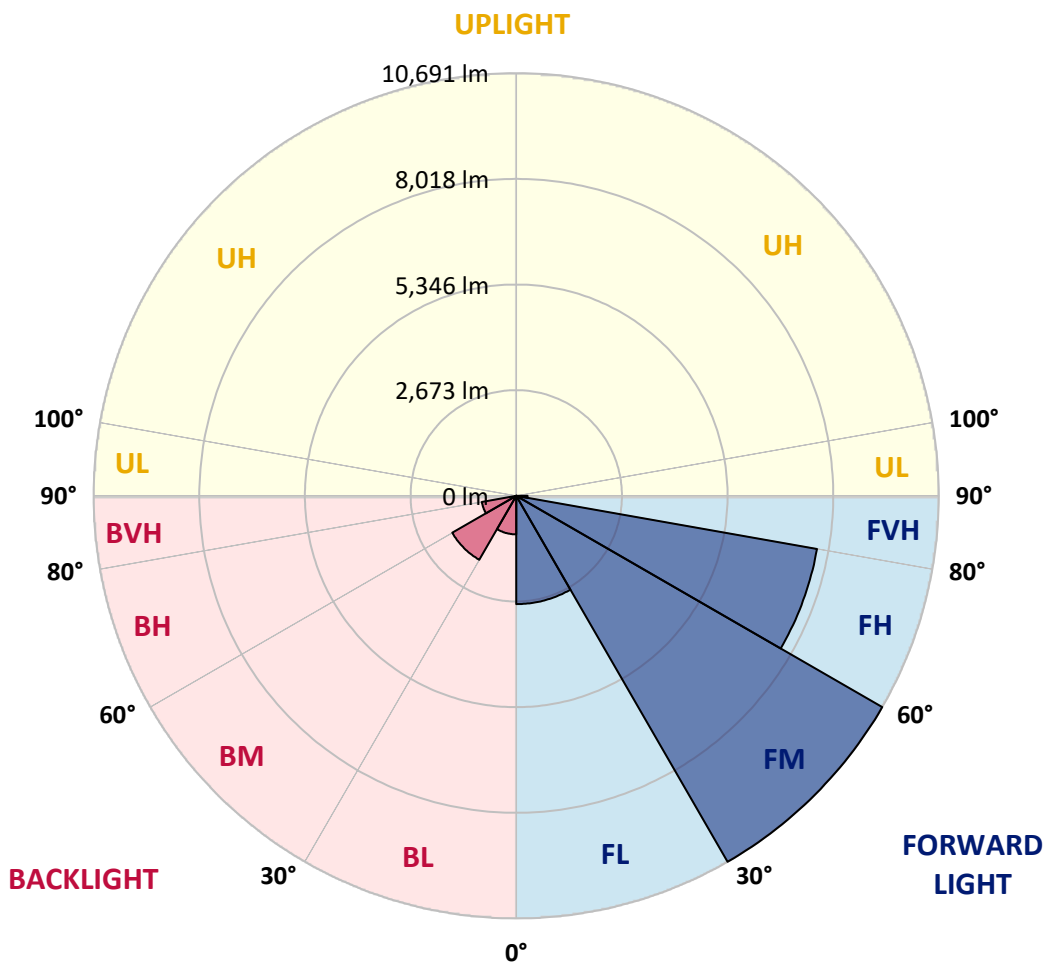


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.9	10.9			
FM (30°-60°)	10691.3	42.5			
FH (60°-80°)	7726.2	30.7			G4/12000
FVH (80°-90°)	285.3	1.1			G3/500
BL (0°-30°)	975.0	3.9	B2/1000		
BM (30°-60°)	1868.8	7.4	B2/2500		
BH (60°-80°)	884.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	9314.5	9299.0	9436.6	9661.5	9888.2	10006.5	9983.2	9973.5	9785.5	9647.9	9359.1
5°	9295.2	9374.6	9620.8	10229.3	10690.6	10913.5	10979.3	10702.2	10335.9	9804.9	9149.8
7.5°	8738.9	8837.7	9239.0	10190.6	11010.4	11494.9	11477.5	11033.7	10277.8	9456.0	8521.9
10°	8049.0	8165.3	8636.2	9791.3	10855.3	11494.9	11529.8	10967.7	10027.7	8973.4	7990.8
12.5°	7562.5	7700.1	8221.4	9419.2	10456.1	11086.0	11126.7	10719.6	9839.8	8787.4	7702.0
15°	7397.8	7527.6	8056.7	9231.2	10031.6	10370.8	10361.1	10318.5	9766.1	8831.9	7717.5
17.5°	7680.7	7787.3	8384.3	9316.4	9634.3	9599.4	9649.8	9855.3	9781.6	9206.0	8206.0
20°	8411.3	8519.9	9161.4	9578.1	9330.1	9109.1	9132.3	9475.4	9925.1	9909.5	8969.5
22.5°	9417.3	9601.4	10182.8	10085.9	9289.3	8804.8	8756.3	9202.1	10169.2	10719.6	10000.6
25°	10690.6	10876.7	11330.1	10896.0	9488.9	8733.1	8688.5	9118.8	10465.7	11510.4	11161.6
27.5°	11760.5	11901.9	12353.4	11684.9	9783.5	8764.1	8690.5	9130.4	10706.1	12182.9	12140.3
30°	12617.1	12721.7	12987.2	12053.0	10037.4	8899.8	8814.5	9301.0	10812.7	12510.5	12933.0
32.5°	13307.1	13483.4	13566.8	12446.5	10401.8	9155.6	9010.2	9628.5	11072.4	12915.5	13764.4
35°	14095.8	14299.4	14192.7	12822.5	10882.5	9554.9	9376.6	10159.5	11465.9	13289.6	14729.6
37.5°	15095.9	15330.4	14913.7	13217.9	11390.3	10155.7	10072.3	10905.8	12062.8	13824.5	15764.5
40°	16130.9	16266.5	15613.3	13698.5	12014.3	11029.7	11109.2	12014.3	12843.8	14466.0	16865.4
42.5°	16939.0	17066.9	16332.4	14101.6	12651.9	12066.7	12398.0	13351.6	13739.2	15123.0	17687.2
45°	17557.3	17665.8	16830.5	14541.6	13512.4	13568.7	14194.7	14729.6	14636.6	15524.2	18320.9
47.5°	18037.9	18131.0	17214.3	15014.5	14801.3	15406.0	16363.4	16590.2	15566.8	15958.4	18894.6
50°	18235.7	18262.7	17334.4	15617.3	16264.6	17747.2	18745.4	18607.7	16632.8	16441.0	19505.1
52.5°	18493.4	18487.6	17677.5	16190.9	17640.6	19840.4	20836.5	20524.5	17838.3	17163.9	20191.1
55°	19169.8	19177.6	18412.0	17004.9	18813.2	21530.4	22596.3	22369.6	19109.7	18384.8	20991.6
57.5°	19991.6	20020.6	19456.6	17956.5	19933.4	22755.3	23910.4	23823.2	20828.8	19743.5	21747.5
59°	20098.1	20156.2	19950.9	18627.1	20598.2	23131.3	24360.1	24445.3	21749.4	20638.9	22156.4
60°	19904.4	20001.3	20094.3	19007.0	20987.7	23266.9	24387.1	24553.8	22441.3	21247.4	22342.5
62.5°	19059.3	19212.4	19679.5	20175.7	21474.2	22844.4	23520.8	23869.7	23298.0	22846.4	22359.9
65°	17952.7	18032.1	18706.6	20383.1	20530.3	20871.4	21080.8	21528.5	22268.8	23462.7	21559.5
67.5°	16138.6	16373.1	17198.7	19179.5	17745.3	17342.2	17289.9	16844.1	18766.7	21993.6	19586.5
70°	13332.2	13436.9	14454.4	15723.8	13392.3	12772.1	13020.2	12853.5	14547.4	18933.3	15764.5
72.5°	10082.0	10318.5	11312.7	12533.8	9113.0	8308.7	8992.8	8930.7	10927.0	15216.0	10830.1
75°	7172.9	7326.0	8593.6	9808.8	6382.2	5407.3	5653.5	5884.1	7628.4	12014.3	6399.6
77.5°	4928.6	5060.4	6012.0	6486.8	4655.4	4459.6	4079.7	4302.6	4998.4	7128.3	3482.7
80°	2973.0	2967.2	3593.3	3709.6	3242.5	3765.7	3159.1	3546.7	3021.5	3050.6	1348.9
82.5°	1930.3	1911.0	2197.8	2395.5	1804.4	1897.4	1273.4	1835.4	1969.1	850.8	426.4
85°	864.4	901.2	1056.3	1393.5	790.7	420.6	259.7	564.0	839.2	428.3	0.0
87.5°	89.1	69.8	186.0	339.2	108.6	11.6	38.8	19.3	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	9225.3	9113.0	8777.7	8463.7	8194.3	7864.9	7651.7	7316.4	7112.8	7050.9	7060.5
5°	8855.2	8531.5	7893.9	7384.1	6816.3	6492.7	6000.4	5527.5	5271.6	5176.7	5134.1
7.5°	8080.0	7733.1	6963.6	6163.2	5554.6	4986.7	4620.5	4203.7	3918.8	3684.3	3643.6
10°	7504.3	7048.9	6095.3	5234.8	4754.2	4327.8	3961.4	3544.8	3209.5	2942.1	2868.4
12.5°	7159.3	6649.6	5585.6	4864.7	4409.2	3971.2	3494.4	3011.8	2668.7	2380.0	2246.2
15°	7097.4	6506.2	5442.2	4599.1	4037.1	3508.0	2874.2	2352.9	2000.2	1726.8	1643.5
17.5°	7471.4	6764.0	5420.9	4322.0	3550.6	2800.5	2141.6	1709.4	1312.1	1159.0	1098.9
20°	8138.1	7219.5	5418.9	4000.2	3050.6	2157.1	1504.0	1114.4	953.5	879.9	845.0
22.5°	9047.1	7839.6	5521.7	3723.1	2531.2	1591.2	1073.7	887.7	794.7	734.5	721.0
25°	10157.6	8758.3	5773.6	3535.1	2133.9	1248.1	885.7	759.8	682.2	655.1	643.4
27.5°	11144.1	9638.2	6050.7	3341.3	1848.9	1104.7	821.7	695.8	633.8	612.4	595.0
30°	11994.9	10436.7	6184.5	3085.5	1620.3	1011.7	833.3	744.2	662.8	598.9	569.8
32.5°	12704.3	11049.1	6271.7	2852.9	1426.4	827.5	658.9	575.6	538.8	515.5	496.2
35°	13591.9	11711.9	6219.4	2721.1	1327.6	754.0	600.8	496.2	434.1	387.6	368.3
37.5°	14522.2	12374.8	6128.3	2612.6	1283.0	699.6	571.7	471.0	403.1	354.6	329.5
40°	15485.4	12989.2	6021.7	2511.8	1242.3	664.8	554.3	449.6	381.8	329.5	302.3
42.5°	16367.3	13588.0	5979.1	2445.9	1176.4	670.6	540.8	439.9	360.5	306.2	283.0
45°	17080.5	14155.9	6037.2	2411.0	1104.7	660.9	544.6	428.3	343.0	290.7	267.4
47.5°	17842.2	14958.3	6225.2	2376.1	1034.9	614.4	573.6	426.4	335.3	281.1	255.8
50°	18727.9	15985.5	6655.4	2290.8	949.7	564.0	610.5	424.5	325.6	269.4	244.2
52.5°	19908.2	17152.2	7099.3	2141.6	825.6	515.5	583.4	418.6	306.2	255.8	230.6
55°	20968.3	18381.0	7475.2	1965.2	668.7	445.7	525.2	393.4	273.2	232.5	209.3
57.5°	21406.4	19074.8	7463.6	1721.0	534.9	391.5	432.2	360.5	238.4	205.5	186.0
59°	21245.5	18987.6	7213.6	1540.8	488.4	362.4	358.5	356.6	222.9	186.0	170.6
60°	21018.8	18669.8	6944.2	1451.7	459.4	343.0	329.5	352.7	209.3	174.4	158.9
62.5°	20150.4	17351.8	6050.7	1300.4	420.6	290.7	263.6	298.5	186.0	151.2	137.6
65°	18892.6	15326.6	5122.4	1257.8	409.0	240.4	219.0	213.2	158.9	127.9	116.3
67.5°	16439.0	12969.8	4149.5	1228.8	412.8	201.6	191.8	160.9	131.8	106.6	98.8
70°	13161.6	10113.0	3397.5	1195.8	416.7	164.8	160.9	127.9	106.6	89.1	81.4
72.5°	7996.6	5994.6	2674.5	1038.8	405.0	131.8	143.4	96.9	77.5	63.9	60.0
75°	4944.1	4103.0	1659.0	808.2	267.4	96.9	100.8	60.0	52.3	40.7	40.7
77.5°	2864.5	2591.2	593.1	290.7	118.2	58.1	44.6	31.0	29.1	17.4	17.4
80°	1188.1	951.6	205.5	98.8	63.9	27.2	9.7	1.9	0.0	0.0	0.0
82.5°	346.9	308.1	56.2	44.6	19.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	6895.8	6831.8	6802.8	6901.6	6810.5	6926.8	6837.7	6876.4	6990.7	7041.1	7171.0
5°	5161.1	5095.3	5064.2	5213.5	5205.8	5279.4	5271.6	5339.5	5397.6	5267.8	5401.5
7.5°	3595.2	3550.6	3624.3	3740.5	3864.6	3823.9	3823.9	3732.8	3763.8	3744.4	3738.6
10°	2734.7	2581.5	2542.8	2538.9	2585.4	2595.2	2542.8	2416.8	2463.4	2476.9	2558.3
12.5°	2151.3	2033.0	1852.8	1771.4	1750.1	1767.5	1595.0	1484.6	1536.9	1505.9	1585.4
15°	1542.7	1445.8	1339.2	1248.1	1223.0	1188.1	1000.0	868.2	852.8	858.6	872.1
17.5°	1100.9	1034.9	1034.9	938.1	885.7	781.0	686.1	628.0	622.2	628.0	637.6
20°	812.1	777.2	773.3	748.1	690.0	620.2	554.3	542.7	538.8	548.5	552.4
22.5°	699.6	662.8	631.8	629.9	575.6	517.5	486.4	471.0	472.9	476.8	486.4
25°	626.0	587.3	554.3	534.9	496.2	455.5	426.4	418.6	418.6	424.5	426.4
27.5°	573.6	525.2	496.2	469.0	434.1	399.2	374.1	368.3	364.4	368.3	377.9
30°	536.9	488.4	451.6	410.9	383.7	350.8	329.5	321.8	319.7	321.8	329.5
32.5°	459.4	430.3	401.2	364.4	331.4	310.1	286.9	273.2	273.2	277.1	284.9
35°	346.9	331.4	329.5	319.7	292.7	269.4	242.3	228.7	228.7	236.5	240.4
37.5°	306.2	277.1	273.2	269.4	257.8	226.7	201.6	189.9	188.0	193.9	201.6
40°	279.1	246.2	228.7	224.8	226.7	191.8	164.8	153.1	153.1	155.1	162.8
42.5°	257.8	219.0	188.0	184.1	191.8	160.9	133.7	122.1	122.1	122.1	131.8
45°	240.4	195.8	158.9	139.5	151.2	131.8	108.6	96.9	93.0	96.9	100.8
47.5°	228.7	178.3	139.5	112.4	112.4	104.6	87.2	73.7	69.8	71.7	77.5
50°	219.0	162.8	118.2	91.1	81.4	83.3	65.9	56.2	52.3	52.3	58.1
52.5°	203.5	147.3	102.7	77.5	62.0	56.2	48.4	40.7	38.8	40.7	44.6
55°	184.1	133.7	89.1	63.9	48.4	38.8	34.9	29.1	27.2	29.1	34.9
57.5°	162.8	112.4	71.7	50.4	33.0	25.2	23.3	19.3	15.5	17.4	21.3
59°	149.2	100.8	62.0	40.7	25.2	17.4	17.4	13.5	9.7	11.6	17.4
60°	143.4	93.0	52.3	34.9	21.3	13.5	13.5	9.7	5.8	7.7	13.5
62.5°	122.1	77.5	40.7	21.3	9.7	1.9	5.8	1.9	0.0	1.9	5.8
65°	102.7	62.0	27.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	85.3	46.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	67.9	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	46.5	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P650966  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	7178.8	7455.9	7626.4	7948.2	8277.6	8531.5	8849.4	9134.3	9252.5	9314.5
5°	5537.1	5922.8	6250.4	6740.7	7196.2	7750.5	8312.5	8975.4	9229.2	9295.2
7.5°	3885.9	4279.3	4622.4	5190.2	5839.5	6581.8	7422.9	8264.1	8634.3	8738.9
10°	2806.4	3226.9	3645.6	4213.4	4820.1	5624.4	6500.4	7541.2	7967.5	8049.0
12.5°	1771.4	2223.0	2903.3	3604.9	4246.4	4893.7	5810.5	6942.3	7413.2	7562.5
15°	1027.2	1364.4	1878.0	2792.8	3608.7	4465.4	5465.5	6717.5	7244.6	7397.8
17.5°	688.0	804.3	1157.0	1856.7	2934.2	4070.0	5378.3	6901.6	7485.0	7680.7
20°	579.5	631.8	755.9	1131.8	2259.9	3717.3	5401.5	7401.6	8167.2	8411.3
22.5°	509.7	558.2	637.6	814.0	1577.6	3279.3	5512.0	8116.7	9105.3	9417.3
25°	449.6	498.1	567.8	674.5	1060.2	2773.4	5754.2	9163.4	10347.6	10690.6
27.5°	399.2	443.8	503.9	595.0	815.9	2209.5	5969.3	10182.8	11481.3	11760.5
30°	352.7	389.6	447.7	517.5	678.4	1703.6	6077.9	11074.4	12306.9	12617.1
32.5°	306.2	341.1	397.3	453.6	558.2	1298.5	6002.3	11729.4	13109.3	13307.1
35°	261.6	298.5	345.0	397.3	482.6	1048.5	5624.4	12465.9	13940.8	14095.8
37.5°	224.8	255.8	304.3	345.0	436.1	839.2	5167.0	13128.7	14873.0	15095.9
40°	189.9	220.9	269.4	306.2	401.2	660.9	4754.2	13865.2	15855.6	16130.9
42.5°	155.1	191.8	234.5	294.6	345.0	503.9	4254.1	14462.2	16594.0	16939.0
45°	124.0	164.8	211.3	292.7	300.4	383.7	3771.5	14927.2	17247.2	17557.3
47.5°	98.8	139.5	203.5	273.2	246.2	304.3	3496.4	15413.8	17789.8	18037.9
50°	79.5	116.3	213.2	240.4	205.5	257.8	3488.6	15956.4	18070.9	18235.7
52.5°	63.9	94.9	180.2	184.1	174.4	226.7	3697.9	16566.9	18357.8	18493.4
55°	54.2	79.5	118.2	135.7	157.0	205.5	3854.9	17506.9	19041.8	19169.8
57.5°	42.6	67.9	91.1	108.6	139.5	188.0	3876.2	18231.8	19908.2	19991.6
59°	36.8	58.1	81.4	96.9	127.9	176.4	3789.0	18276.4	19964.4	20098.1
60°	31.0	52.3	71.7	91.1	118.2	166.7	3694.0	17952.7	19755.1	19904.4
62.5°	23.3	40.7	52.3	73.7	96.9	143.4	3244.4	16822.8	18954.6	19059.3
65°	15.5	29.1	38.8	54.2	75.6	124.0	2643.6	15357.5	17718.2	17952.7
67.5°	9.7	21.3	31.0	40.7	62.0	104.6	1883.8	13169.4	15987.4	16138.6
70°	5.8	13.5	23.3	33.0	48.4	83.3	1118.3	10409.6	13301.2	13332.2
72.5°	3.9	9.7	15.5	23.3	38.8	75.6	542.7	6785.3	9711.9	10082.0
75°	1.9	5.8	9.7	17.4	31.0	62.0	259.7	4533.2	7066.3	7172.9
77.5°	0.0	1.9	5.8	11.6	23.3	48.4	151.2	2976.9	4818.1	4928.6
80°	0.0	0.0	3.9	9.7	17.4	31.0	91.1	1755.9	2918.8	2973.0
82.5°	0.0	0.0	1.9	7.7	11.6	23.3	46.5	771.4	1911.0	1930.3
85°	0.0	0.0	1.9	7.7	9.7	15.5	17.4	104.6	848.9	864.4
87.5°	0.0	0.0	1.9	9.7	9.7	9.7	9.7	5.8	71.7	89.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)