

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: P454175

Luminaire Tested: **GALN-SA5B-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454175  
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-SA5B-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA 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: 18637 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

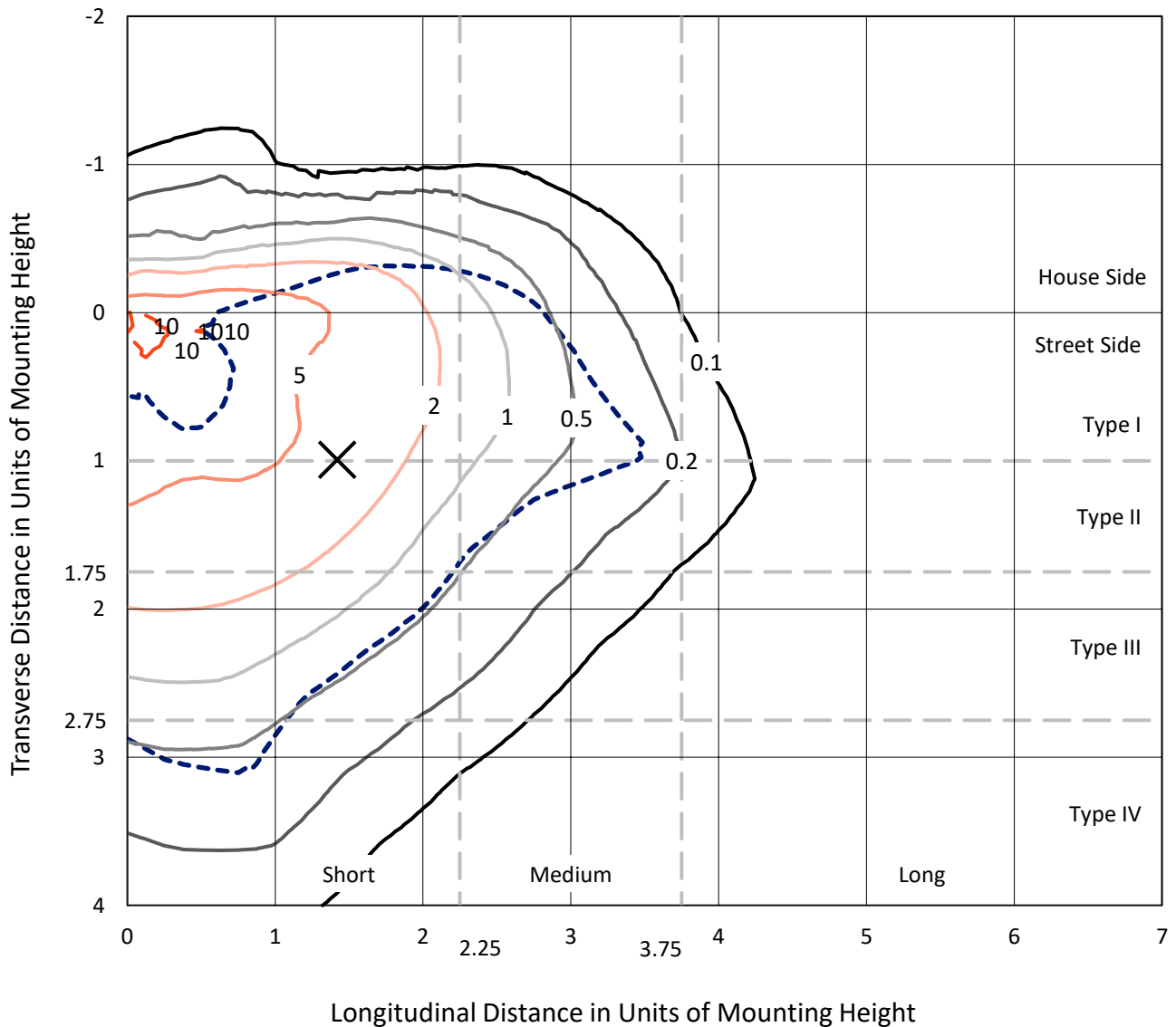
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

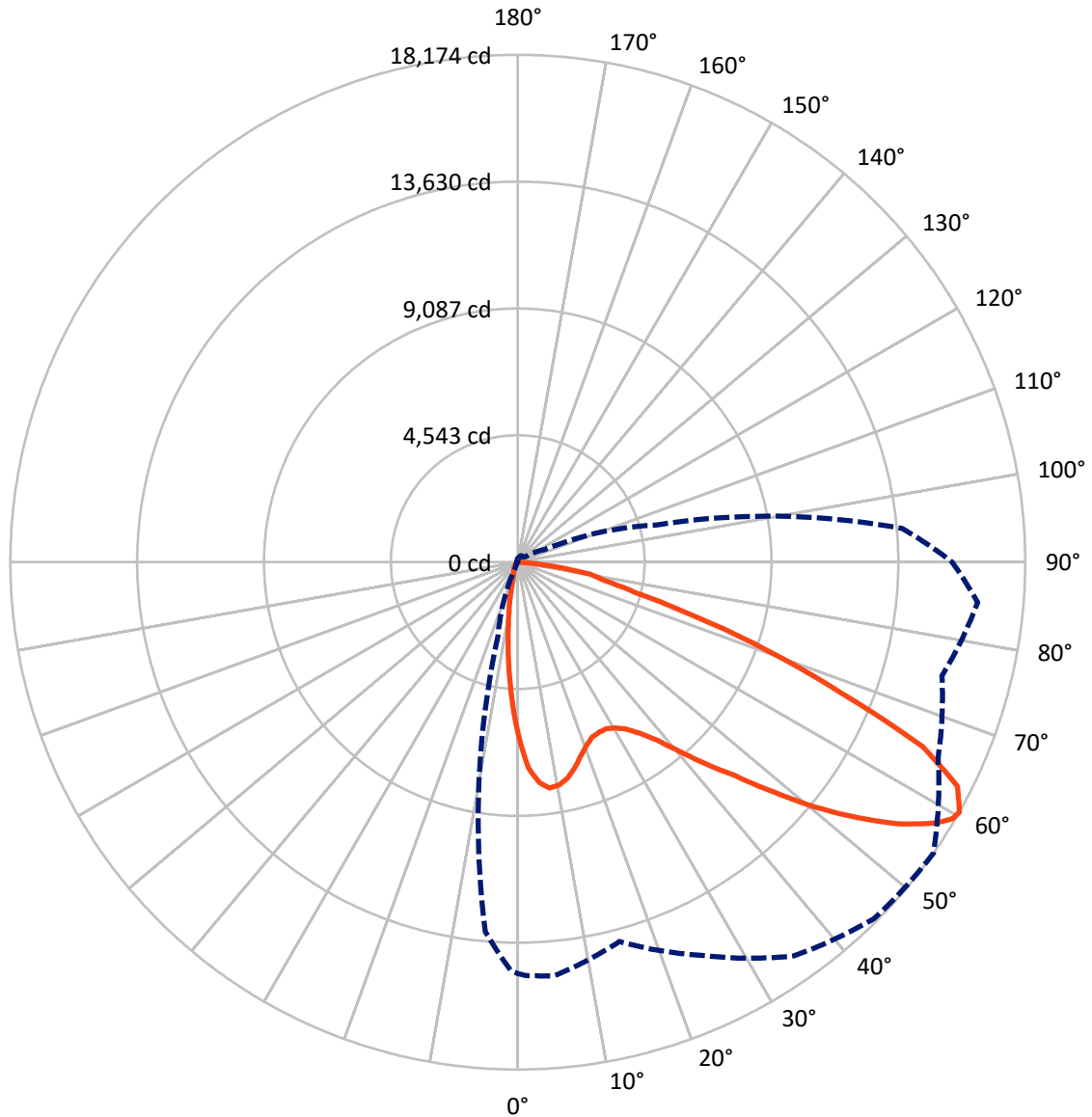
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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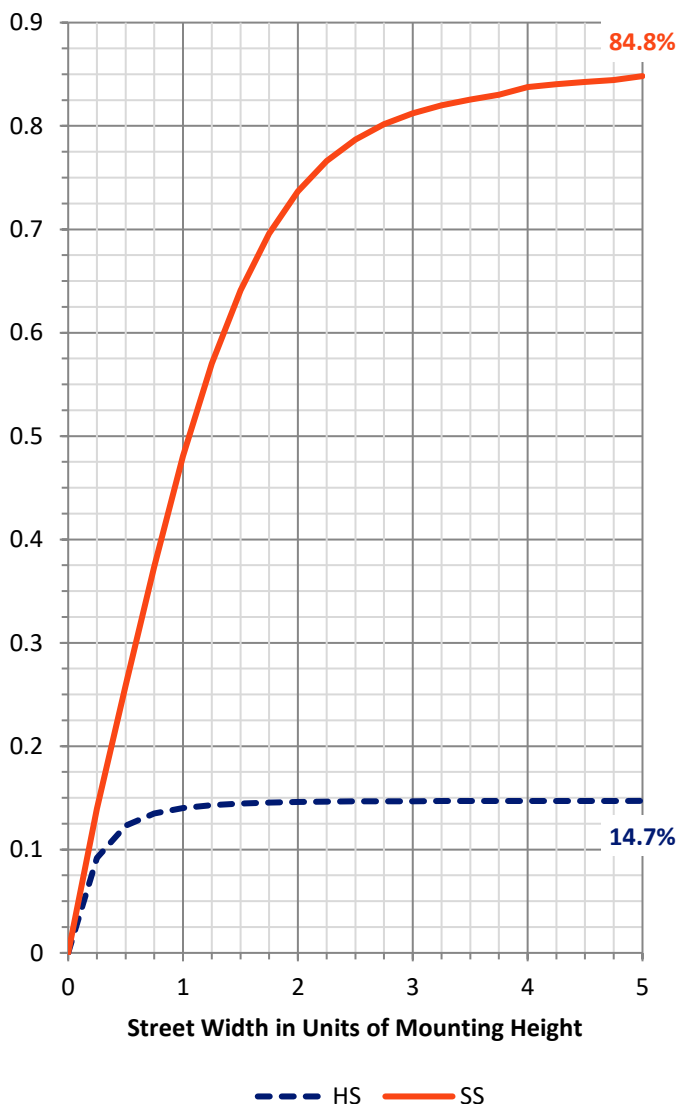
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2765.9	0.0	2765.9
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	15871.1	0.0	15871.1
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	18637.0	0.0	18637.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.3	2.5
10°-20°	920.2	4.9
20°-30°	1362.1	7.3
30°-40°	2030.3	10.9
40°-50°	2973.4	16.0
50°-60°	4292.7	23.0
60°-70°	4515.7	24.2
70°-80°	1857.6	10.0
80°-90°	217.6	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°	18637.0	100.0
0°-180°	18637.0	100.0

**Coefficient of Utilization**

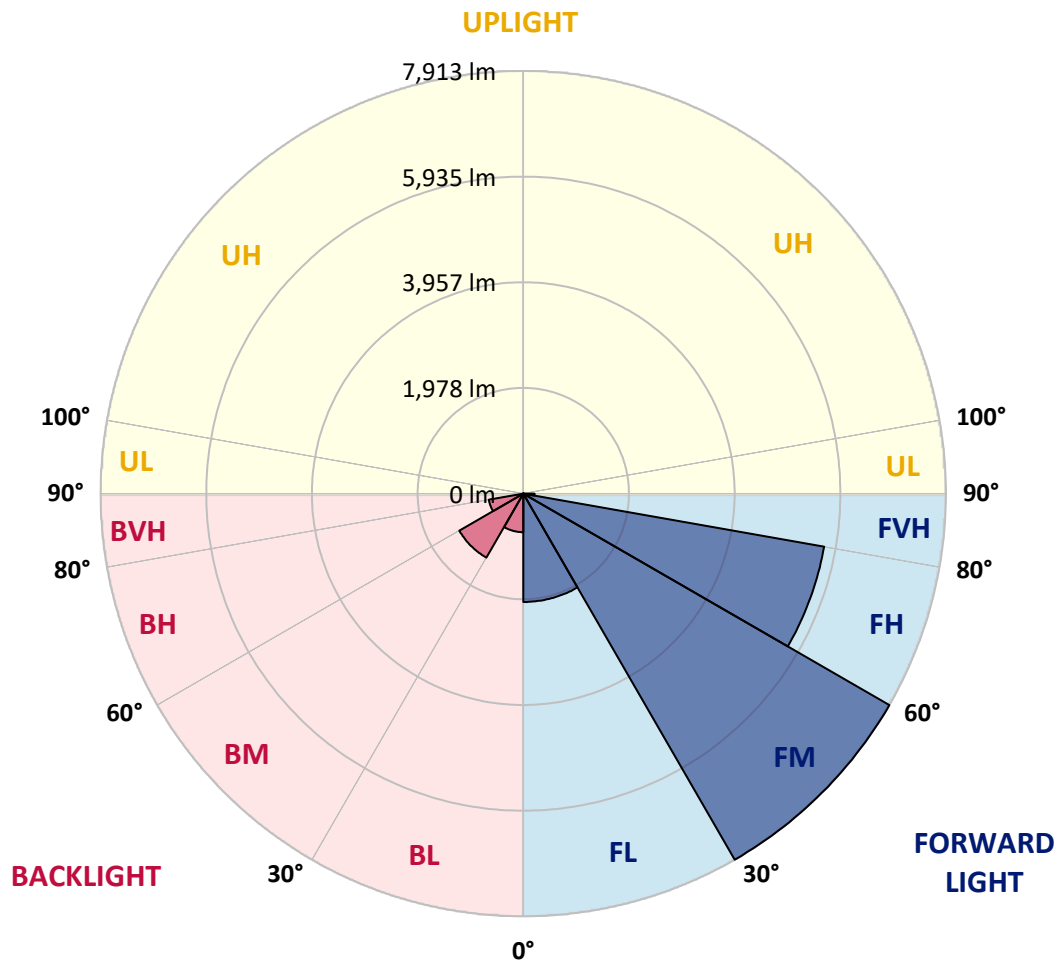


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2028.0	10.9			
FM	(30°-60°)	7913.3	42.5			
FH	(60°-80°)	5718.7	30.7			G3/7500
FVH	(80°-90°)	211.2	1.1			G2/225
BL	(0°-30°)	721.6	3.9	B2/1000		
BM	(30°-60°)	1383.2	7.4	B2/2500		
BH	(60°-80°)	654.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.4	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4
2.5°	6894.3	6882.8	6984.7	7151.1	7318.9	7406.4	7389.2	7382.0	7242.9	7141.0	6927.3
5°	6879.9	6938.8	7120.9	7571.4	7912.8	8077.8	8126.5	7921.4	7650.3	7257.2	6772.4
7.5°	6468.2	6541.4	6838.3	7542.7	8149.5	8508.1	8495.2	8166.7	7607.2	6999.0	6307.6
10°	5957.5	6043.6	6392.2	7247.2	8034.7	8508.1	8533.9	8117.9	7422.2	6641.8	5914.5
12.5°	5597.5	5699.3	6085.2	6971.7	7739.2	8205.4	8235.6	7934.3	7283.0	6504.1	5700.8
15°	5475.5	5571.7	5963.3	6832.6	7425.1	7676.1	7668.9	7637.4	7228.5	6537.1	5712.2
17.5°	5685.0	5763.9	6205.7	6895.7	7131.0	7105.2	7142.5	7294.5	7240.0	6814.0	6073.7
20°	6225.8	6306.1	6781.0	7089.4	6905.8	6742.2	6759.4	7013.3	7346.2	7334.7	6638.9
22.5°	6970.3	7106.6	7536.9	7465.2	6875.6	6517.0	6481.1	6811.1	7526.9	7934.3	7402.1
25°	7912.8	8050.5	8386.2	8064.8	7023.4	6463.9	6430.9	6749.4	7746.4	8519.6	8261.4
27.5°	8704.6	8809.4	9143.6	8648.7	7241.4	6486.9	6432.4	6758.0	7924.3	9017.4	8985.8
30°	9338.7	9416.2	9612.7	8921.3	7429.4	6587.3	6524.2	6884.2	8003.2	9259.8	9572.5
32.5°	9849.4	9979.9	10041.6	9212.5	7699.0	6776.7	6669.1	7126.7	8195.4	9559.6	10187.9
35°	10433.2	10583.9	10505.0	9490.8	8054.8	7072.2	6940.2	7519.7	8486.6	9836.5	10902.3
37.5°	11173.4	11347.0	11038.6	9783.4	8430.7	7516.9	7455.2	8072.0	8928.4	10232.4	11668.4
40°	11939.5	12039.9	11556.5	10139.2	8892.6	8163.8	8222.6	8892.6	9506.5	10707.2	12483.2
42.5°	12537.7	12632.3	12088.7	10437.5	9364.5	8931.3	9176.6	9882.4	10169.3	11193.5	13091.4
45°	12995.3	13075.6	12457.3	10763.2	10001.4	10043.0	10506.4	10902.3	10833.5	11490.5	13560.5
47.5°	13351.0	13419.9	12741.4	11113.2	10955.4	11403.0	12111.6	12279.5	11522.0	11811.8	13985.1
50°	13497.4	13517.4	12830.3	11559.3	12038.5	13135.9	13874.6	13772.8	12311.0	12169.0	14437.0
52.5°	13688.2	13683.8	13084.2	11983.9	13057.0	14685.1	15422.5	15191.5	13203.3	12704.1	14944.8
55°	14188.8	14194.5	13627.9	12586.4	13924.8	15936.0	16725.0	16557.2	14144.3	13607.8	15537.2
57.5°	14797.0	14818.6	14401.1	13290.8	14754.0	16842.7	17697.6	17633.1	15416.7	14613.4	16096.7
59°	14875.9	14919.0	14766.9	13787.1	15246.0	17121.0	18030.4	18093.6	16098.1	15276.2	16399.4
60°	14732.5	14804.2	14873.1	14068.3	15534.4	17221.4	18050.5	18173.9	16610.3	15726.6	16537.1
62.5°	14107.0	14220.4	14566.1	14933.3	15894.4	16908.6	17409.3	17667.5	17244.3	16910.1	16550.0
65°	13287.9	13346.7	13846.0	15086.8	15195.8	15448.3	15603.2	15934.6	16482.6	17366.3	15957.6
67.5°	11945.2	12118.8	12729.9	14196.0	13134.4	12836.1	12797.3	12467.4	13890.4	16278.9	14497.2
70°	9868.0	9945.5	10698.6	11638.2	9912.5	9453.5	9637.1	9513.7	10767.5	14013.8	11668.4
72.5°	7462.4	7637.4	8373.3	9277.0	6745.1	6149.8	6656.2	6610.3	8087.8	11262.4	8016.1
75°	5309.1	5422.5	6360.6	7260.1	4723.9	4002.3	4184.5	4355.2	5646.3	8892.6	4736.8
77.5°	3648.0	3745.5	4449.9	4801.3	3445.7	3300.8	3019.7	3184.6	3699.6	5276.2	2577.8
80°	2200.5	2196.2	2659.6	2745.7	2399.9	2787.3	2338.3	2625.2	2236.4	2257.9	998.4
82.5°	1428.8	1414.4	1626.7	1773.1	1335.5	1404.4	942.5	1358.5	1457.5	629.8	315.6
85°	639.8	667.1	781.8	1031.4	585.3	311.3	192.2	417.4	621.1	317.0	0.0
87.5°	66.0	51.6	137.7	251.0	80.3	8.6	28.7	14.3	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°	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4
2.5°	6828.3	6745.1	6496.9	6264.5	6065.1	5821.3	5663.5	5415.3	5264.7	5218.8	5225.9
5°	6554.3	6314.7	5842.8	5465.5	5045.2	4805.6	4441.3	4091.2	3901.9	3831.6	3800.0
7.5°	5980.5	5723.7	5154.2	4561.8	4111.3	3691.0	3419.9	3111.5	2900.6	2727.0	2696.9
10°	5554.4	5217.3	4511.6	3874.6	3518.9	3203.3	2932.2	2623.7	2375.6	2177.6	2123.1
12.5°	5299.1	4921.8	4134.3	3600.6	3263.5	2939.3	2586.4	2229.2	1975.3	1761.6	1662.6
15°	5253.2	4815.7	4028.1	3404.1	2988.1	2596.5	2127.4	1741.5	1480.4	1278.2	1216.5
17.5°	5530.1	5006.5	4012.3	3199.0	2628.0	2072.9	1585.1	1265.2	971.2	857.8	813.4
20°	6023.5	5343.6	4010.9	2960.8	2257.9	1596.6	1113.2	824.8	705.8	651.3	625.4
22.5°	6696.3	5802.6	4086.9	2755.7	1873.5	1177.7	794.7	657.0	588.2	543.7	533.6
25°	7518.3	6482.6	4273.4	2616.6	1579.4	923.8	655.6	562.3	504.9	484.9	476.3
27.5°	8248.5	7133.8	4478.6	2473.1	1368.5	817.7	608.2	515.0	469.1	453.3	440.4
30°	8878.2	7724.9	4577.5	2283.7	1199.3	748.8	616.8	550.9	490.6	443.3	421.7
32.5°	9403.3	8178.2	4642.1	2111.6	1055.8	612.5	487.7	426.1	398.8	381.6	367.2
35°	10060.3	8668.8	4603.4	2014.1	982.6	558.0	444.7	367.2	321.3	286.9	272.6
37.5°	10748.8	9159.4	4535.9	1933.7	949.6	517.9	423.2	348.6	298.4	262.5	243.9
40°	11461.8	9614.1	4457.0	1859.1	919.5	492.0	410.3	332.8	282.6	243.9	223.8
42.5°	12114.5	10057.4	4425.5	1810.4	870.8	496.3	400.2	325.6	266.8	226.7	209.4
45°	12642.4	10477.7	4468.5	1784.5	817.7	489.2	403.1	317.0	253.9	215.2	198.0
47.5°	13206.2	11071.6	4607.7	1758.7	766.0	454.7	424.6	315.6	248.2	208.0	189.4
50°	13861.7	11831.9	4926.1	1695.6	702.9	417.4	451.9	314.2	241.0	199.4	180.7
52.5°	14735.4	12695.5	5254.6	1585.1	611.1	381.6	431.8	309.9	226.7	189.4	170.7
55°	15520.0	13605.0	5532.9	1454.6	494.9	329.9	388.8	291.2	202.3	172.1	154.9
57.5°	15844.2	14118.5	5524.3	1273.9	395.9	289.8	319.9	266.8	176.4	152.1	137.7
59°	15725.2	14054.0	5339.3	1140.4	361.5	268.3	265.4	264.0	165.0	137.7	126.2
60°	15557.3	13818.7	5139.9	1074.5	340.0	253.9	243.9	261.1	154.9	129.1	117.6
62.5°	14914.7	12843.2	4478.6	962.6	311.3	215.2	195.1	220.9	137.7	111.9	101.9
65°	13983.7	11344.2	3791.4	931.0	302.7	177.9	162.1	157.8	117.6	94.7	86.1
67.5°	12167.6	9599.8	3071.3	909.5	305.6	149.2	142.0	119.1	97.5	78.9	73.2
70°	9741.8	7485.3	2514.7	885.1	308.4	121.9	119.1	94.7	78.9	66.0	60.2
72.5°	5918.8	4437.0	1979.6	768.9	299.8	97.5	106.2	71.7	57.4	47.3	44.5
75°	3659.5	3036.9	1227.9	598.2	198.0	71.7	74.6	44.5	38.7	30.1	30.1
77.5°	2120.2	1917.9	439.0	215.2	87.5	43.0	33.0	23.0	21.5	12.9	12.9
80°	879.4	704.3	152.1	73.2	47.3	20.1	7.2	1.4	0.0	0.0	0.0
82.5°	256.8	228.1	41.6	33.0	14.3	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°	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4
2.5°	5104.0	5056.7	5035.2	5108.3	5040.9	5127.0	5061.0	5089.7	5174.3	5211.6	5307.7
5°	3820.1	3771.3	3748.4	3858.8	3853.1	3907.6	3901.9	3952.1	3995.1	3899.0	3998.0
7.5°	2661.0	2628.0	2682.5	2768.6	2860.4	2830.3	2830.3	2762.9	2785.8	2771.5	2767.2
10°	2024.1	1910.8	1882.1	1879.2	1913.6	1920.8	1882.1	1788.8	1823.3	1833.3	1893.6
12.5°	1592.3	1504.8	1371.4	1311.1	1295.4	1308.3	1180.6	1098.8	1137.6	1114.6	1173.4
15°	1141.9	1070.1	991.3	923.8	905.2	879.4	740.2	642.7	631.2	635.5	645.5
17.5°	814.8	766.0	766.0	694.3	655.6	578.1	507.8	464.8	460.5	464.8	472.0
20°	601.1	575.2	572.4	553.7	510.7	459.0	410.3	401.7	398.8	406.0	408.8
22.5°	517.9	490.6	467.7	466.2	426.1	383.0	360.1	348.6	350.0	352.9	360.1
25°	463.3	434.7	410.3	395.9	367.2	337.1	315.6	309.9	309.9	314.2	315.6
27.5°	424.6	388.8	367.2	347.2	321.3	295.5	276.9	272.6	269.7	272.6	279.7
30°	397.4	361.5	334.2	304.1	284.0	259.6	243.9	238.1	236.7	238.1	243.9
32.5°	340.0	318.5	296.9	269.7	245.3	229.5	212.3	202.3	202.3	205.1	210.9
35°	256.8	245.3	243.9	236.7	216.6	199.4	179.3	169.3	169.3	175.0	177.9
37.5°	226.7	205.1	202.3	199.4	190.8	167.8	149.2	140.6	139.1	143.5	149.2
40°	206.6	182.2	169.3	166.4	167.8	142.0	121.9	113.3	113.3	114.8	120.5
42.5°	190.8	162.1	139.1	136.3	142.0	119.1	99.0	90.4	90.4	90.4	97.5
45°	177.9	144.9	117.6	103.3	111.9	97.5	80.3	71.7	68.9	71.7	74.6
47.5°	169.3	132.0	103.3	83.2	83.2	77.5	64.6	54.5	51.6	53.1	57.4
50°	162.1	120.5	87.5	67.4	60.2	61.7	48.8	41.6	38.7	38.7	43.0
52.5°	150.6	109.0	76.0	57.4	45.9	41.6	35.9	30.1	28.7	30.1	33.0
55°	136.3	99.0	66.0	47.3	35.9	28.7	25.8	21.5	20.1	21.5	25.8
57.5°	120.5	83.2	53.1	37.3	24.4	18.6	17.2	14.3	11.5	12.9	15.8
59°	110.5	74.6	45.9	30.1	18.6	12.9	12.9	10.0	7.2	8.6	12.9
60°	106.2	68.9	38.7	25.8	15.8	10.0	10.0	7.2	4.3	5.7	10.0
62.5°	90.4	57.4	30.1	15.8	7.2	1.4	4.3	1.4	0.0	1.4	4.3
65°	76.0	45.9	20.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	63.1	34.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	50.2	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	34.4	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.6	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: P454175  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4	6310.4
2.5°	5313.4	5518.6	5644.8	5883.0	6126.8	6314.7	6550.0	6760.9	6848.4	6894.3
5°	4098.4	4383.9	4626.3	4989.2	5326.4	5736.6	6152.6	6643.2	6831.2	6879.9
7.5°	2876.2	3167.4	3421.3	3841.6	4322.2	4871.6	5494.2	6116.8	6390.8	6468.2
10°	2077.2	2388.5	2698.3	3118.6	3567.6	4163.0	4811.4	5581.7	5897.3	5957.5
12.5°	1311.1	1645.4	2148.9	2668.2	3143.0	3622.2	4300.7	5138.4	5487.0	5597.5
15°	760.3	1009.9	1390.0	2067.1	2671.1	3305.1	4045.3	4972.0	5362.2	5475.5
17.5°	509.3	595.3	856.4	1374.3	2171.9	3012.5	3980.8	5108.3	5540.1	5685.0
20°	428.9	467.7	559.5	837.8	1672.6	2751.4	3998.0	5478.4	6045.1	6225.8
22.5°	377.3	413.1	472.0	602.5	1167.7	2427.2	4079.8	6007.8	6739.4	6970.3
25°	332.8	368.7	420.3	499.2	784.7	2052.8	4259.1	6782.4	7658.9	7912.8
27.5°	295.5	328.5	373.0	440.4	603.9	1635.3	4418.3	7536.9	8498.1	8704.6
30°	261.1	288.3	331.4	383.0	502.1	1260.9	4498.6	8196.8	9109.2	9338.7
32.5°	226.7	252.5	294.1	335.7	413.1	961.1	4442.7	8681.7	9703.1	9849.4
35°	193.7	220.9	255.3	294.1	357.2	776.1	4163.0	9226.8	10318.5	10433.2
37.5°	166.4	189.4	225.2	255.3	322.8	621.1	3824.4	9717.4	11008.5	11173.4
40°	140.6	163.5	199.4	226.7	296.9	489.2	3518.9	10262.5	11735.8	11939.5
42.5°	114.8	142.0	173.6	218.0	255.3	373.0	3148.8	10704.4	12282.3	12537.7
45°	91.8	121.9	156.4	216.6	222.4	284.0	2791.6	11048.6	12765.8	12995.3
47.5°	73.2	103.3	150.6	202.3	182.2	225.2	2587.9	11408.7	13167.4	13351.0
50°	58.8	86.1	157.8	177.9	152.1	190.8	2582.1	11810.4	13375.4	13497.4
52.5°	47.3	70.3	133.4	136.3	129.1	167.8	2737.1	12262.2	13587.7	13688.2
55°	40.2	58.8	87.5	100.4	116.2	152.1	2853.3	12958.0	14094.1	14188.8
57.5°	31.6	50.2	67.4	80.3	103.3	139.1	2869.0	13494.5	14735.4	14797.0
59°	27.3	43.0	60.2	71.7	94.7	130.5	2804.5	13527.5	14777.0	14875.9
60°	23.0	38.7	53.1	67.4	87.5	123.4	2734.2	13287.9	14622.0	14732.5
62.5°	17.2	30.1	38.7	54.5	71.7	106.2	2401.4	12451.6	14029.6	14107.0
65°	11.5	21.5	28.7	40.2	55.9	91.8	1956.7	11367.1	13114.3	13287.9
67.5°	7.2	15.8	23.0	30.1	45.9	77.5	1394.3	9747.5	11833.3	11945.2
70°	4.3	10.0	17.2	24.4	35.9	61.7	827.7	7704.8	9845.1	9868.0
72.5°	2.9	7.2	11.5	17.2	28.7	55.9	401.7	5022.2	7188.4	7462.4
75°	1.4	4.3	7.2	12.9	23.0	45.9	192.2	3355.3	5230.2	5309.1
77.5°	0.0	1.4	4.3	8.6	17.2	35.9	111.9	2203.4	3566.2	3648.0
80°	0.0	0.0	2.9	7.2	12.9	23.0	67.4	1299.7	2160.4	2200.5
82.5°	0.0	0.0	1.4	5.7	8.6	17.2	34.4	570.9	1414.4	1428.8
85°	0.0	0.0	1.4	5.7	7.2	11.5	12.9	77.5	628.3	639.8
87.5°	0.0	0.0	1.4	7.2	7.2	7.2	7.2	4.3	53.1	66.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)