

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: P455103

Luminaire Tested: **GALN-SA6B-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455103  
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-SA6B-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 22069 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

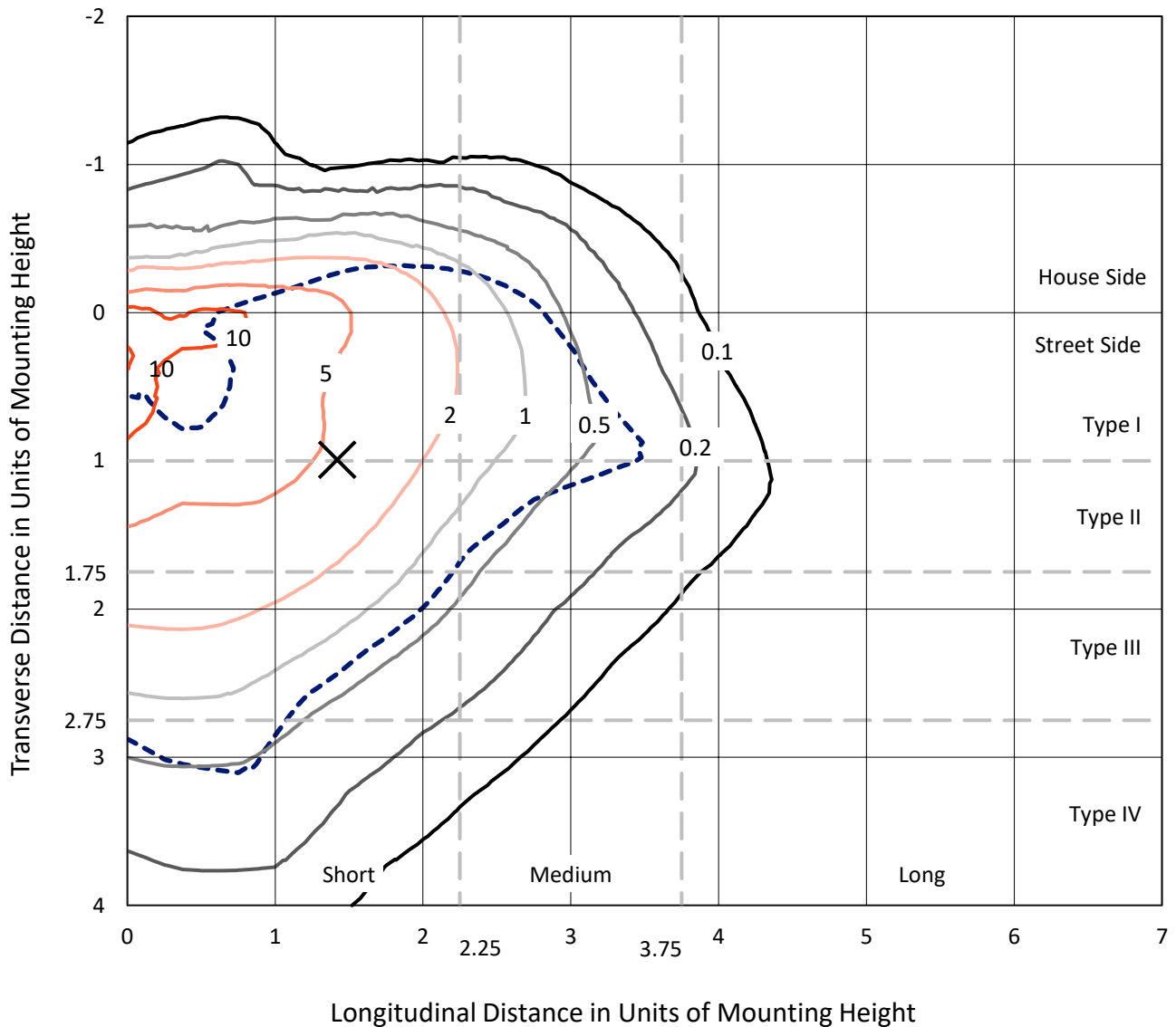
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

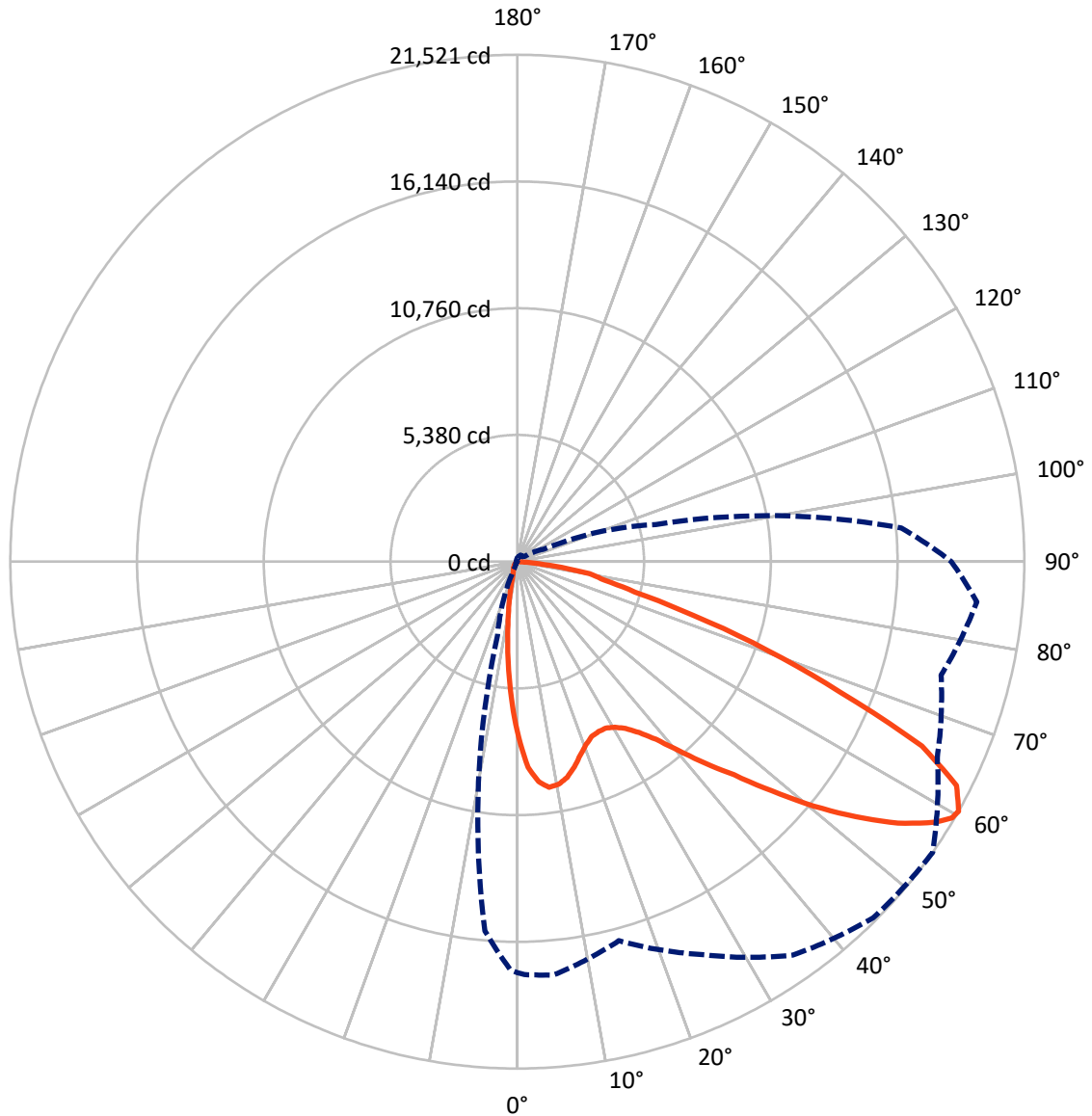
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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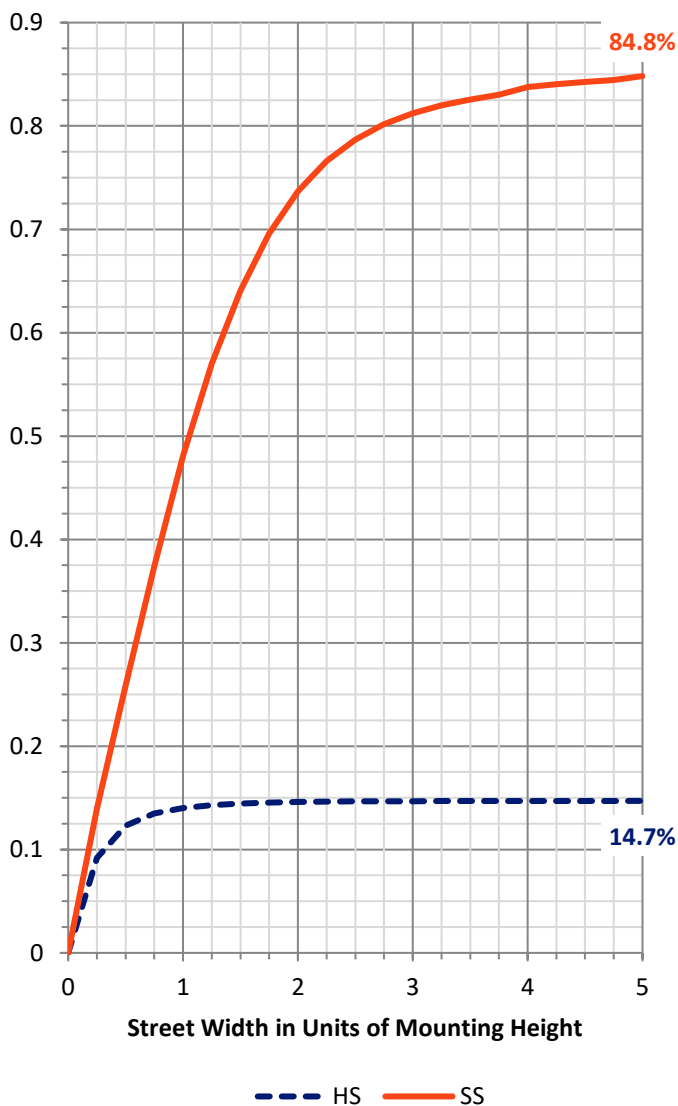
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3275.2	0.0	3275.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	18793.8	0.0	18793.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	22069.0	0.0	22069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.3	2.5
10°-20°	1089.7	4.9
20°-30°	1612.9	7.3
30°-40°	2404.2	10.9
40°-50°	3521.0	16.0
50°-60°	5083.2	23.0
60°-70°	5347.3	24.2
70°-80°	2199.7	10.0
80°-90°	257.6	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°	22069.0	100.0
0°-180°	22069.0	100.0

**Coefficient of Utilization**



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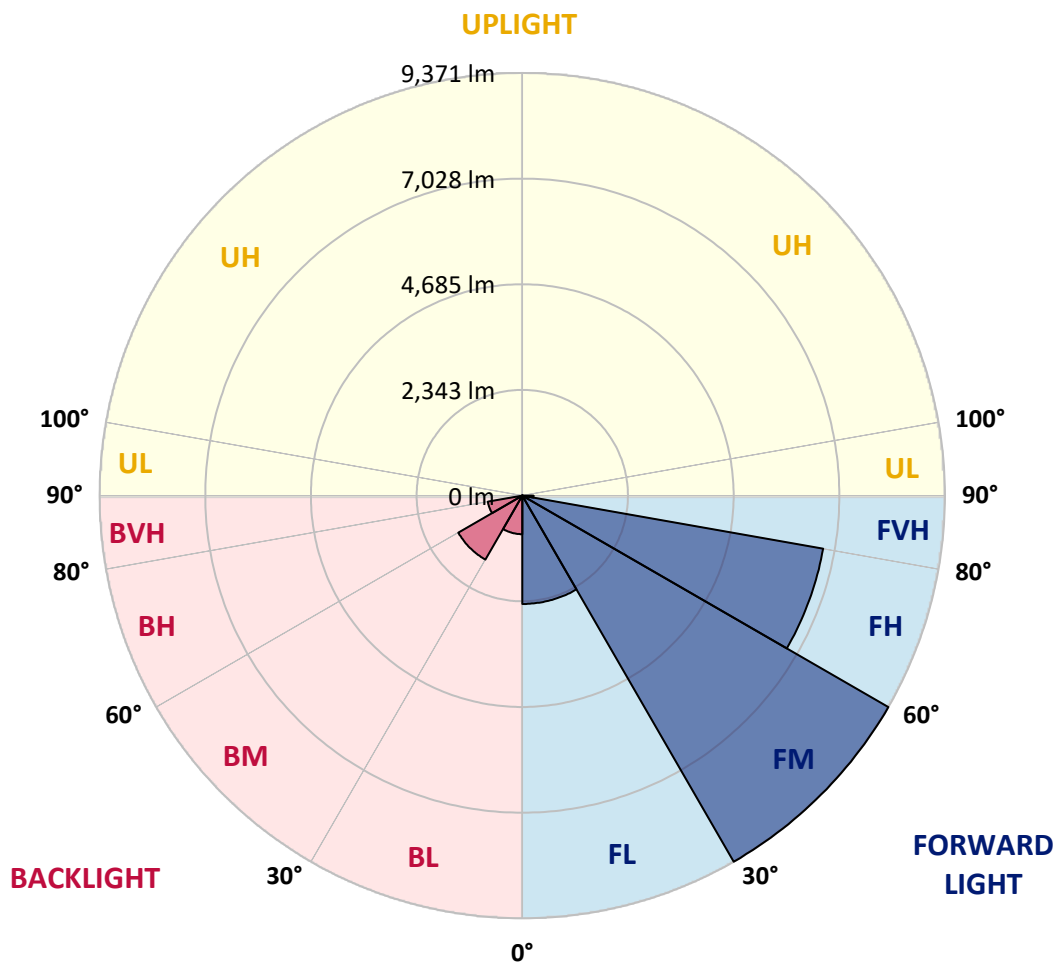
CATALOG NUMBER: GALN-SA6B-730-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2401.4	10.9			
FM	(30°-60°)	9370.5	42.5			
FH	(60°-80°)	6771.8	30.7			G3/7500
FVH	(80°-90°)	250.1	1.1			G3/500
BL	(0°-30°)	854.5	3.9	B2/1000		
BM	(30°-60°)	1637.9	7.4	B2/2500		
BH	(60°-80°)	775.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.6	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5
2.5°	8163.9	8150.3	8270.9	8467.9	8666.7	8770.3	8749.9	8741.4	8576.6	8456.0	8202.9
5°	8146.9	8216.5	8432.3	8965.6	9369.9	9565.3	9623.0	9380.1	9059.1	8593.6	8019.5
7.5°	7659.4	7746.0	8097.6	8931.7	9650.2	10074.9	10059.6	9670.6	9008.1	8287.9	7469.1
10°	7054.6	7156.5	7569.3	8581.7	9514.3	10074.9	10105.5	9612.8	8789.0	7864.9	7003.7
12.5°	6628.3	6748.9	7205.8	8255.6	9164.4	9716.5	9752.1	9395.4	8624.2	7701.8	6750.6
15°	6483.9	6597.7	7061.4	8090.8	8792.4	9089.6	9081.2	9043.8	8559.7	7740.9	6764.2
17.5°	6731.9	6825.3	7348.5	8165.6	8444.1	8413.6	8457.7	8637.8	8573.2	8068.7	7192.2
20°	7372.3	7467.4	8029.7	8394.9	8177.5	7983.8	8004.2	8304.9	8699.0	8685.4	7861.5
22.5°	8253.9	8415.3	8924.9	8839.9	8141.8	7717.1	7674.6	8065.3	8913.0	9395.4	8765.2
25°	9369.9	9533.0	9930.5	9550.0	8316.7	7654.3	7615.2	7992.3	9172.9	10088.5	9782.7
27.5°	10307.6	10431.6	10827.4	10241.4	8574.9	7681.4	7616.9	8002.5	9383.5	10677.9	10640.5
30°	11058.4	11150.1	11382.9	10564.1	8797.5	7800.3	7725.6	8152.0	9476.9	10965.0	11335.3
32.5°	11663.2	11817.7	11890.8	10908.9	9116.8	8024.6	7897.2	8439.1	9704.6	11320.0	12064.0
35°	12354.5	12532.9	12439.4	11238.5	9538.1	8374.5	8218.2	8904.5	10049.4	11647.9	12910.0
37.5°	13231.0	13436.6	13071.4	11585.0	9983.2	8901.1	8828.1	9558.5	10572.6	12116.7	13817.1
40°	14138.1	14257.0	13684.6	12006.3	10530.1	9667.2	9736.8	10530.1	11257.2	12679.0	14781.9
42.5°	14846.5	14958.6	14314.8	12359.6	11089.0	10576.0	10866.5	11702.2	12042.0	13254.8	15502.2
45°	15388.4	15483.5	14751.4	12745.2	11843.2	11892.5	12441.1	12910.0	12828.4	13606.4	16057.6
47.5°	15809.6	15891.2	15087.7	13159.7	12972.8	13502.8	14342.0	14540.7	13643.8	13986.9	16560.5
50°	15982.9	16006.7	15193.0	13688.0	14255.3	15554.8	16429.7	16309.0	14578.1	14409.9	17095.5
52.5°	16208.8	16203.7	15493.7	14190.8	15461.4	17389.4	18262.5	17989.0	15634.7	15043.5	17696.9
55°	16801.7	16808.5	16137.5	14904.2	16489.1	18870.7	19804.9	19606.2	16749.0	16113.7	18398.4
57.5°	17521.9	17547.4	17053.1	15738.3	17470.9	19944.2	20956.6	20880.2	18255.7	17304.5	19060.9
59°	17615.3	17666.3	17486.2	16326.0	18053.6	20273.8	21350.7	21425.5	19062.6	18089.3	19419.3
60°	17445.5	17530.4	17611.9	16659.0	18395.0	20392.7	21374.5	21520.6	19669.0	18622.7	19582.4
62.5°	16704.8	16839.0	17248.4	17683.3	18821.4	20022.4	20615.2	20921.0	20419.9	20024.1	19597.7
65°	15734.9	15804.5	16395.7	17865.0	17994.1	18293.1	18476.6	18869.0	19517.9	20564.2	18896.1
67.5°	14144.9	14350.5	15074.1	16810.2	15553.1	15199.8	15153.9	14763.2	16448.3	19276.6	17166.9
70°	11685.2	11777.0	12668.8	13781.4	11737.9	11194.3	11411.7	11265.7	12750.3	16594.4	13817.1
72.5°	8836.5	9043.8	9915.2	10985.4	7987.2	7282.2	7881.9	7827.5	9577.2	13336.4	9492.2
75°	6286.8	6421.0	7532.0	8597.0	5593.8	4739.3	4955.1	5157.2	6686.0	10530.1	5609.0
77.5°	4319.7	4435.3	5269.3	5685.5	4080.2	3908.7	3575.7	3771.1	4380.9	6247.8	3052.5
80°	2605.8	2600.7	3149.4	3251.3	2841.9	3300.5	2768.9	3108.6	2648.2	2673.7	1182.3
82.5°	1691.9	1674.9	1926.3	2099.6	1581.5	1663.0	1116.0	1608.7	1725.9	745.7	373.7
85°	757.6	789.9	925.8	1221.4	693.1	368.6	227.6	494.3	735.5	375.4	0.0
87.5°	78.1	61.2	163.1	297.3	95.1	10.2	34.0	17.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5
2.5°	8085.7	7987.2	7693.3	7418.1	7182.0	6893.3	6706.4	6412.5	6234.2	6179.8	6188.3
5°	7761.3	7477.6	6918.7	6472.0	5974.3	5690.6	5259.1	4844.6	4620.4	4537.2	4499.8
7.5°	7081.8	6777.7	6103.4	5401.8	4868.4	4370.7	4049.7	3684.4	3434.7	3229.2	3193.5
10°	6577.3	6178.1	5342.4	4588.1	4166.9	3793.2	3472.1	3106.9	2813.0	2578.6	2514.0
12.5°	6274.9	5828.2	4895.6	4263.7	3864.5	3480.6	3062.7	2639.8	2339.1	2086.0	1968.8
15°	6220.6	5702.5	4769.9	4031.0	3538.4	3074.6	2519.1	2062.2	1753.0	1513.5	1440.5
17.5°	6548.4	5928.4	4751.2	3788.1	3112.0	2454.6	1877.0	1498.2	1150.0	1015.8	963.2
20°	7132.8	6327.6	4749.5	3506.1	2673.7	1890.6	1318.2	976.7	835.8	771.2	740.6
22.5°	7929.4	6871.2	4839.5	3263.2	2218.5	1394.6	941.1	778.0	696.5	643.8	631.9
25°	8902.8	7676.3	5060.4	3098.4	1870.2	1094.0	776.3	665.9	597.9	574.2	564.0
27.5°	9767.4	8447.5	5303.3	2928.5	1620.5	968.2	720.2	609.8	555.5	536.8	521.5
30°	10513.1	9147.4	5420.5	2704.3	1420.1	886.7	730.4	652.3	580.9	524.9	499.4
32.5°	11134.9	9684.2	5496.9	2500.5	1250.2	725.3	577.6	504.5	472.2	451.8	434.9
35°	11912.9	10265.1	5451.1	2384.9	1163.6	660.8	526.6	434.9	380.5	339.7	322.7
37.5°	12728.2	10846.1	5371.2	2289.8	1124.5	613.2	501.1	412.8	353.3	310.9	288.8
40°	13572.5	11384.6	5277.8	2201.5	1088.9	582.6	485.8	394.1	334.6	288.8	265.0
42.5°	14345.4	11909.5	5240.4	2143.7	1031.1	587.7	473.9	385.6	316.0	268.4	248.0
45°	14970.5	12407.2	5291.4	2113.2	968.2	579.3	477.3	375.4	300.7	254.8	234.4
47.5°	15638.1	13110.4	5456.2	2082.6	907.1	538.5	502.8	373.7	293.9	246.3	224.2
50°	16414.4	14010.7	5833.3	2007.8	832.4	494.3	535.1	372.0	285.4	236.1	214.0
52.5°	17448.9	15033.3	6222.3	1877.0	723.6	451.8	511.3	366.9	268.4	224.2	202.1
55°	18378.0	16110.3	6551.8	1722.5	586.0	390.7	460.3	344.8	239.5	203.8	183.5
57.5°	18761.9	16718.4	6541.6	1508.4	468.8	343.1	378.8	316.0	208.9	180.1	163.1
59°	18621.0	16642.0	6322.5	1350.5	428.1	317.7	314.3	312.6	195.3	163.1	149.5
60°	18422.2	16363.4	6086.4	1272.3	402.6	300.7	288.8	309.2	183.5	152.9	139.3
62.5°	17661.2	15208.3	5303.3	1139.8	368.6	254.8	231.0	261.6	163.1	132.5	120.6
65°	16558.8	13433.2	4489.6	1102.4	358.4	210.6	192.0	186.9	139.3	112.1	101.9
67.5°	14408.2	11367.6	3636.9	1077.0	361.8	176.7	168.2	141.0	115.5	93.4	86.6
70°	11535.7	8863.7	2977.8	1048.1	365.2	144.4	141.0	112.1	93.4	78.1	71.3
72.5°	7008.8	5254.0	2344.2	910.5	355.0	115.5	125.7	84.9	67.9	56.1	52.7
75°	4333.3	3596.1	1454.1	708.4	234.4	84.9	88.3	52.7	45.9	35.7	35.7
77.5°	2510.7	2271.1	519.8	254.8	103.6	51.0	39.1	27.2	25.5	15.3	15.3
80°	1041.3	834.1	180.1	86.6	56.1	23.8	8.5	1.7	0.0	0.0	0.0
82.5°	304.1	270.1	49.3	39.1	17.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5
2.5°	6043.9	5987.9	5962.4	6049.0	5969.2	6071.1	5993.0	6026.9	6127.1	6171.3	6285.1
5°	4523.6	4465.8	4438.7	4569.5	4562.7	4627.2	4620.4	4679.9	4730.8	4617.0	4734.2
7.5°	3151.1	3112.0	3176.5	3278.5	3387.2	3351.5	3351.5	3271.7	3298.8	3281.9	3276.8
10°	2396.8	2262.6	2228.7	2225.3	2266.0	2274.5	2228.7	2118.3	2159.0	2170.9	2242.3
12.5°	1885.5	1781.9	1623.9	1552.6	1533.9	1549.2	1398.0	1301.2	1347.1	1319.9	1389.5
15°	1352.2	1267.2	1173.8	1094.0	1071.9	1041.3	876.5	761.0	747.4	752.5	764.4
17.5°	964.9	907.1	907.1	822.2	776.3	684.6	601.3	550.4	545.3	550.4	558.9
20°	711.7	681.2	677.8	655.7	604.7	543.6	485.8	475.6	472.2	480.7	484.1
22.5°	613.2	580.9	553.8	552.1	504.5	453.5	426.4	412.8	414.5	417.9	426.4
25°	548.7	514.7	485.8	468.8	434.9	399.2	373.7	366.9	366.9	372.0	373.7
27.5°	502.8	460.3	434.9	411.1	380.5	349.9	327.8	322.7	319.4	322.7	331.2
30°	470.5	428.1	395.8	360.1	336.3	307.5	288.8	282.0	280.3	282.0	288.8
32.5°	402.6	377.1	351.6	319.4	290.5	271.8	251.4	239.5	239.5	242.9	249.7
35°	304.1	290.5	288.8	280.3	256.5	236.1	212.3	200.4	200.4	207.2	210.6
37.5°	268.4	242.9	239.5	236.1	225.9	198.7	176.7	166.5	164.8	169.9	176.7
40°	244.6	215.7	200.4	197.0	198.7	168.2	144.4	134.2	134.2	135.9	142.7
42.5°	225.9	192.0	164.8	161.4	168.2	141.0	117.2	107.0	107.0	107.0	115.5
45°	210.6	171.6	139.3	122.3	132.5	115.5	95.1	84.9	81.5	84.9	88.3
47.5°	200.4	156.3	122.3	98.5	98.5	91.7	76.4	64.5	61.2	62.9	67.9
50°	192.0	142.7	103.6	79.8	71.3	73.0	57.8	49.3	45.9	45.9	51.0
52.5°	178.4	129.1	90.0	67.9	54.4	49.3	42.5	35.7	34.0	35.7	39.1
55°	161.4	117.2	78.1	56.1	42.5	34.0	30.6	25.5	23.8	25.5	30.6
57.5°	142.7	98.5	62.9	44.2	28.9	22.1	20.4	17.0	13.6	15.3	18.7
59°	130.8	88.3	54.4	35.7	22.1	15.3	15.3	11.9	8.5	10.2	15.3
60°	125.7	81.5	45.9	30.6	18.7	11.9	11.9	8.5	5.1	6.8	11.9
62.5°	107.0	67.9	35.7	18.7	8.5	1.7	5.1	1.7	0.0	1.7	5.1
65°	90.0	54.4	23.8	8.5	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	74.7	40.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	59.5	27.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	40.8	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.2	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: P455103  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5	7472.5
2.5°	6291.9	6534.8	6684.3	6966.3	7255.1	7477.6	7756.2	8005.9	8109.5	8163.9
5°	4853.1	5191.2	5478.2	5908.0	6307.2	6793.0	7285.6	7866.6	8089.1	8146.9
7.5°	3405.9	3750.7	4051.4	4549.1	5118.1	5768.7	6506.0	7243.2	7567.6	7659.4
10°	2459.7	2828.3	3195.2	3692.9	4224.6	4929.6	5697.4	6609.6	6983.3	7054.6
12.5°	1552.6	1948.4	2544.6	3159.5	3721.8	4289.2	5092.6	6084.7	6497.5	6628.3
15°	900.3	1195.9	1646.0	2447.8	3162.9	3913.8	4790.3	5887.6	6349.7	6483.9
17.5°	603.0	705.0	1014.1	1627.3	2571.8	3567.2	4713.8	6049.0	6560.3	6731.9
20°	507.9	553.8	662.5	992.0	1980.7	3258.1	4734.2	6487.3	7158.2	7372.3
22.5°	446.8	489.2	558.9	713.4	1382.7	2874.2	4831.1	7114.1	7980.4	8253.9
25°	394.1	436.6	497.7	591.1	929.2	2430.8	5043.4	8031.4	9069.3	9369.9
27.5°	349.9	389.0	441.7	521.5	715.1	1936.5	5231.9	8924.9	10063.0	10307.6
30°	309.2	341.4	392.4	453.5	594.5	1493.1	5327.1	9706.3	10786.6	11058.4
32.5°	268.4	299.0	348.2	397.5	489.2	1138.1	5260.8	10280.4	11489.9	11663.2
35°	229.3	261.6	302.4	348.2	423.0	919.0	4929.6	10925.9	12218.6	12354.5
37.5°	197.0	224.2	266.7	302.4	382.2	735.5	4528.7	11506.9	13035.7	13231.0
40°	166.5	193.6	236.1	268.4	351.6	579.3	4166.9	12152.4	13896.9	14138.1
42.5°	135.9	168.2	205.5	258.2	302.4	441.7	3728.6	12675.6	14544.1	14846.5
45°	108.7	144.4	185.2	256.5	263.3	336.3	3305.6	13083.2	15116.6	15388.4
47.5°	86.6	122.3	178.4	239.5	215.7	266.7	3064.4	13509.6	15592.2	15809.6
50°	69.6	101.9	186.9	210.6	180.1	225.9	3057.6	13985.2	15838.5	15982.9
52.5°	56.1	83.2	158.0	161.4	152.9	198.7	3241.1	14520.3	16089.9	16208.8
55°	47.6	69.6	103.6	118.9	137.6	180.1	3378.7	15344.2	16689.6	16801.7
57.5°	37.4	59.5	79.8	95.1	122.3	164.8	3397.4	15979.5	17448.9	17521.9
59°	32.3	51.0	71.3	84.9	112.1	154.6	3320.9	16018.6	17498.1	17615.3
60°	27.2	45.9	62.9	79.8	103.6	146.1	3237.7	15734.9	17314.7	17445.5
62.5°	20.4	35.7	45.9	64.5	84.9	125.7	2843.6	14744.6	16613.1	16704.8
65°	13.6	25.5	34.0	47.6	66.2	108.7	2317.0	13460.4	15529.4	15734.9
67.5°	8.5	18.7	27.2	35.7	54.4	91.7	1651.1	11542.5	14012.4	14144.9
70°	5.1	11.9	20.4	28.9	42.5	73.0	980.1	9123.6	11658.1	11685.2
72.5°	3.4	8.5	13.6	20.4	34.0	66.2	475.6	5947.1	8512.1	8836.5
75°	1.7	5.1	8.5	15.3	27.2	54.4	227.6	3973.2	6193.4	6286.8
77.5°	0.0	1.7	5.1	10.2	20.4	42.5	132.5	2609.2	4222.9	4319.7
80°	0.0	0.0	3.4	8.5	15.3	27.2	79.8	1539.0	2558.2	2605.8
82.5°	0.0	0.0	1.7	6.8	10.2	20.4	40.8	676.1	1674.9	1691.9
85°	0.0	0.0	1.7	6.8	8.5	13.6	15.3	91.7	744.0	757.6
87.5°	0.0	0.0	1.7	8.5	8.5	8.5	8.5	5.1	62.9	78.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)