

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: P457887

Luminaire Tested: **GALN-SA9B-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457887  
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-SA9B-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 33738 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

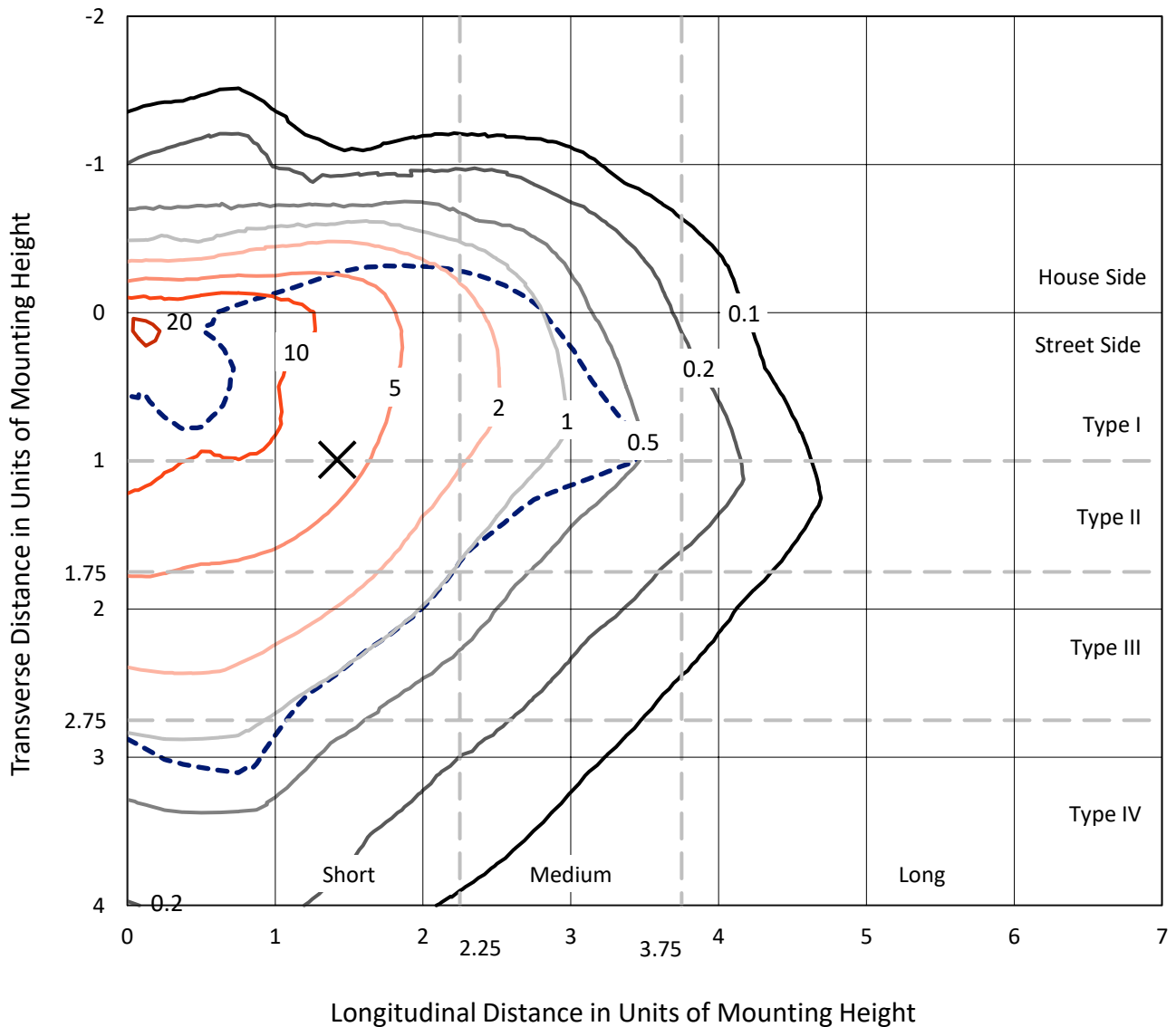
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

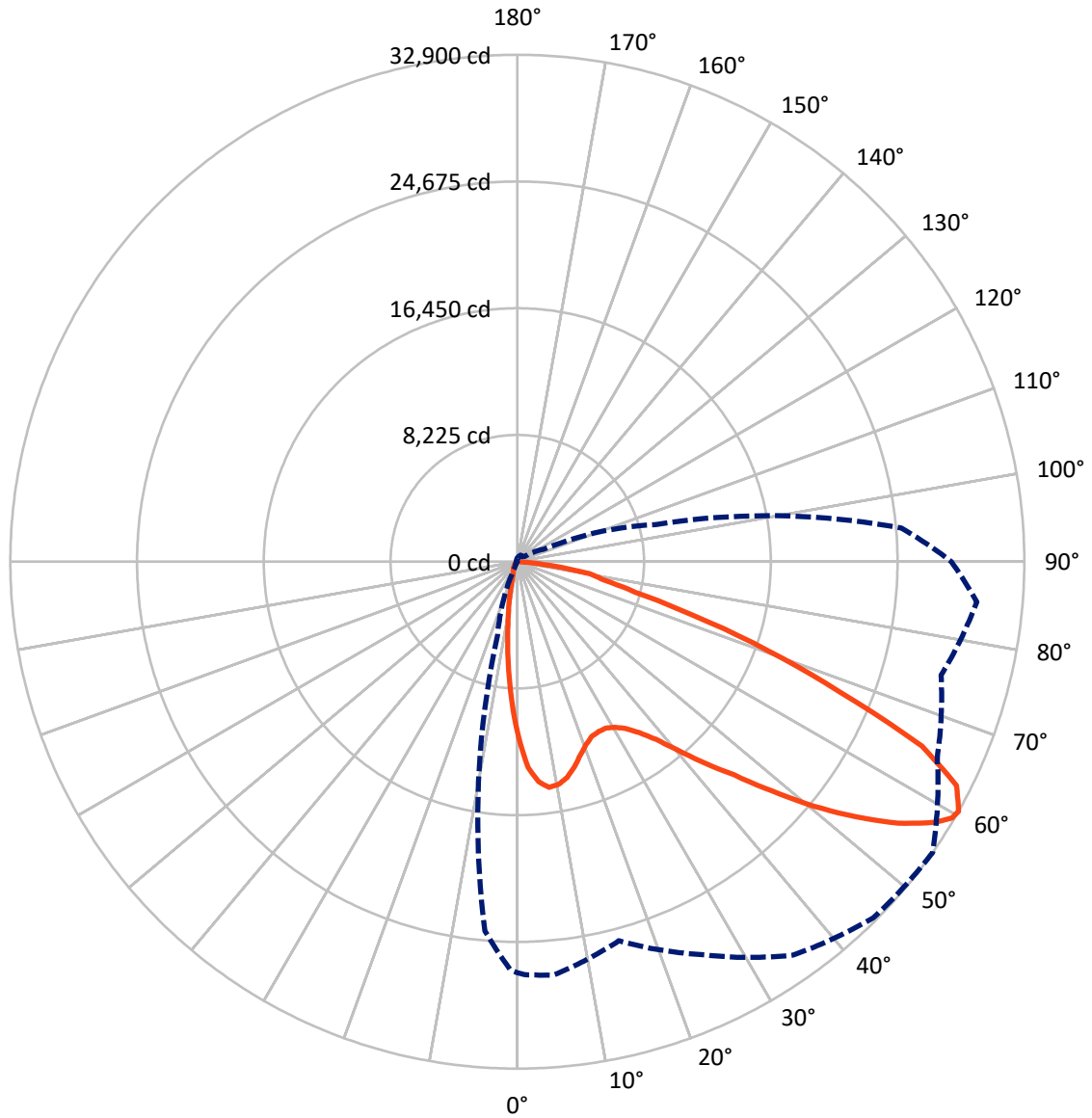
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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	5007.0	0.0	5007.0
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	28731.0	0.0	28731.0
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	33738.0	0.0	33738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	845.9	2.5
10°-20°	1665.8	4.9
20°-30°	2465.7	7.3
30°-40°	3675.5	10.9
40°-50°	5382.7	16.0
50°-60°	7771.0	23.0
60°-70°	8174.7	24.2
70°-80°	3362.8	10.0
80°-90°	393.9	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°	33738.0	100.0
0°-180°	33738.0	100.0

**Coefficient of Utilization**



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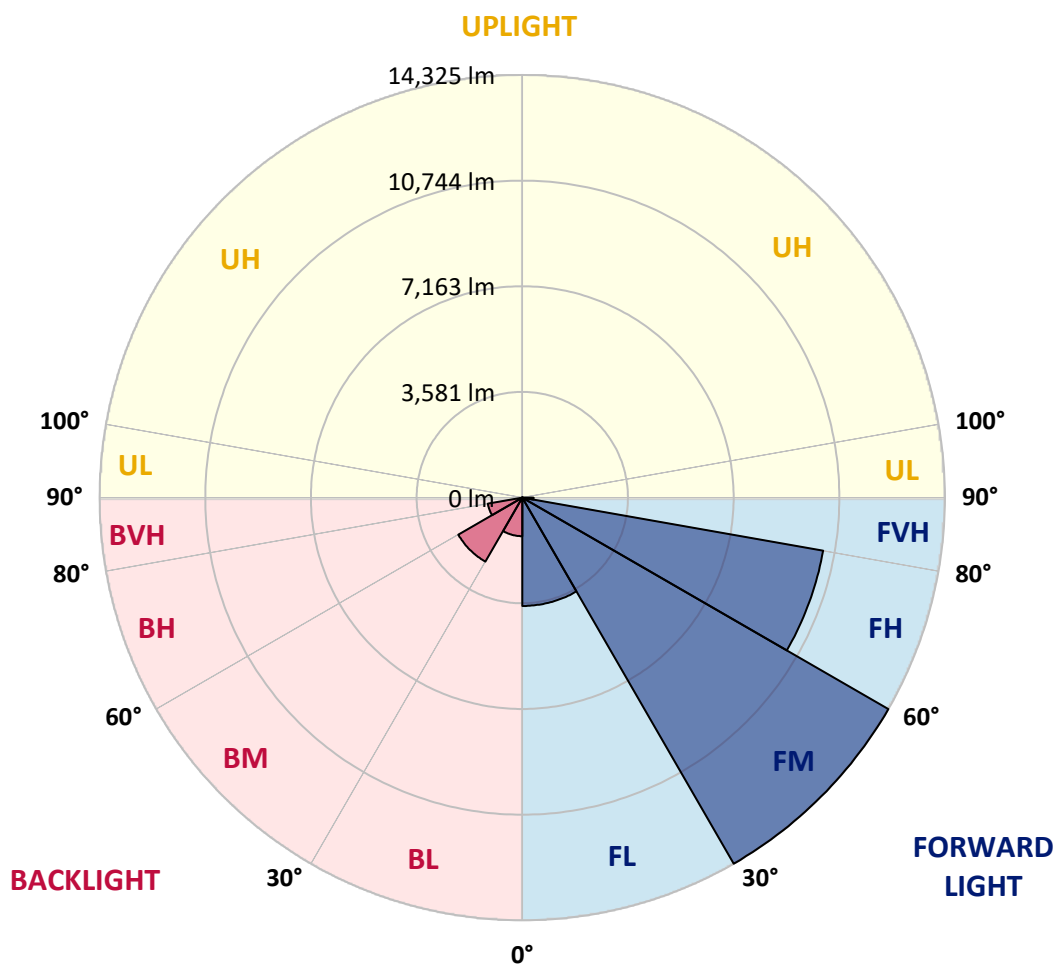
CATALOG NUMBER: GALN-SA9B-730-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3671.2	10.9			
FM	(30°-60°)	14325.2	42.5			
FH	(60°-80°)	10352.3	30.7			G4/12000
FVH	(80°-90°)	382.3	1.1			G3/500
BL	(0°-30°)	1306.4	3.9	B3/2500		
BM	(30°-60°)	2504.0	7.4	B3/5000		
BH	(60°-80°)	1185.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	11.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6
2.5°	12480.5	12459.7	12644.1	12945.4	13249.2	13407.6	13376.4	13363.4	13111.6	12927.2	12540.2
5°	12454.5	12561.0	12890.8	13706.2	14324.3	14622.9	14711.2	14339.9	13849.1	13137.5	12259.8
7.5°	11709.2	11841.7	12379.2	13654.3	14752.8	15402.0	15378.6	14783.9	13771.2	12670.1	11418.4
10°	10784.8	10940.6	11571.6	13119.3	14545.0	15402.0	15448.7	14695.6	13436.2	12023.5	10706.9
12.5°	10133.0	10317.3	11015.9	12620.7	14010.1	14854.0	14908.6	14363.2	13184.3	11774.2	10319.9
15°	9912.2	10086.2	10795.2	12368.9	13441.4	13895.8	13882.8	13825.7	13085.6	11833.9	10340.7
17.5°	10291.4	10434.2	11234.0	12483.1	12909.0	12862.3	12929.8	13205.0	13106.4	12335.1	10995.1
20°	11270.4	11415.8	12275.4	12833.7	12501.3	12205.2	12236.4	12696.1	13298.5	13277.8	12018.3
22.5°	12618.1	12864.9	13643.9	13514.1	12446.8	11797.5	11732.6	12329.9	13625.7	14363.2	13399.8
25°	14324.3	14573.6	15181.3	14599.6	12714.2	11701.5	11641.7	12218.2	14023.1	15422.8	14955.3
27.5°	15757.8	15947.3	16552.4	15656.5	13109.0	11743.0	11644.3	12233.8	14345.1	16323.9	16266.7
30°	16905.6	17045.8	17401.6	16149.9	13449.1	11924.8	11810.5	12462.3	14487.9	16762.7	17328.9
32.5°	17830.1	18066.4	18178.0	16677.0	13937.4	12267.6	12072.8	12901.2	14835.9	17305.5	18442.9
35°	18887.0	19159.6	19016.8	17180.8	14581.4	12802.5	12563.6	13612.7	15363.0	17806.7	19736.1
37.5°	20227.0	20541.2	19982.8	17710.6	15261.8	13607.6	13495.9	14612.5	16162.9	18523.4	21122.9
40°	21613.7	21795.5	20920.3	18354.6	16097.9	14778.7	14885.2	16097.9	17209.4	19383.0	22597.9
42.5°	22696.6	22868.0	21883.8	18894.8	16952.3	16168.1	16612.1	17889.8	18409.2	20263.3	23699.0
45°	23525.0	23670.4	22551.1	19484.3	18105.3	18180.6	19019.4	19736.1	19611.5	20800.9	24548.1
47.5°	24169.0	24293.6	23065.3	20117.9	19832.2	20642.5	21925.3	22229.1	20858.0	21382.6	25316.8
50°	24433.9	24470.2	23226.3	20925.5	21792.9	23779.5	25116.8	24932.5	22286.3	22029.2	26134.8
52.5°	24779.3	24771.5	23686.0	21694.2	23636.6	26584.1	27918.9	27500.8	23901.5	22997.8	27054.1
55°	25685.6	25695.9	24670.2	22784.9	25207.7	28848.5	30276.8	29973.0	25605.1	24633.8	28126.6
57.5°	26786.6	26825.6	26069.9	24059.9	26708.7	30489.8	32037.5	31920.6	27908.5	26454.2	29139.4
59°	26929.5	27007.4	26732.1	24958.4	27599.4	30993.5	32640.0	32754.2	29142.0	27654.0	29687.3
60°	26669.8	26799.6	26924.3	25467.4	28121.4	31175.3	32676.3	32899.6	30069.1	28469.4	29936.6
62.5°	25537.5	25742.7	26368.5	27033.3	28773.2	30609.2	31515.5	31982.9	31216.9	30611.8	29960.0
65°	24054.7	24161.2	25064.9	27311.2	27508.6	27965.6	28246.1	28845.9	29837.9	31437.6	28887.5
67.5°	21624.1	21938.3	23044.5	25698.5	23776.9	23236.7	23166.6	22569.3	25145.4	29469.2	26243.9
70°	17863.8	18004.0	19367.4	21068.3	17944.3	17113.3	17445.7	17222.4	19492.0	25368.7	21122.9
72.5°	13508.9	13825.7	15157.9	16793.9	12210.4	11132.7	12049.4	11966.3	14641.1	20388.0	14511.3
75°	9611.0	9816.1	11514.5	13142.7	8551.5	7245.2	7575.0	7884.1	10221.2	16097.9	8574.8
77.5°	6603.8	6780.4	8055.5	8691.7	6237.7	5975.4	5466.4	5765.0	6697.3	9551.3	4666.6
80°	3983.6	3975.8	4814.6	4970.4	4344.5	5045.7	4232.9	4752.3	4048.5	4087.5	1807.4
82.5°	2586.5	2560.5	2944.8	3209.7	2417.7	2542.3	1706.1	2459.2	2638.4	1140.0	571.3
85°	1158.2	1207.5	1415.3	1867.1	1059.5	563.5	348.0	755.7	1124.4	573.9	0.0
87.5°	119.5	93.5	249.3	454.5	145.4	15.6	51.9	26.0	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°	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6
2.5°	12361.1	12210.4	11761.2	11340.5	10979.5	10538.1	10252.4	9803.2	9530.5	9447.4	9460.4
5°	11865.1	11431.4	10577.0	9894.0	9133.2	8699.5	8039.9	7406.2	7063.5	6936.2	6879.1
7.5°	10826.3	10361.5	9330.5	8258.0	7442.6	6681.7	6190.9	5632.6	5250.9	4936.6	4882.1
10°	10055.0	9444.8	8167.1	7014.1	6370.1	5798.8	5308.0	4749.7	4300.4	3942.0	3843.4
12.5°	9592.8	8909.8	7484.2	6518.1	5907.9	5321.0	4682.1	4035.5	3575.9	3188.9	3009.8
15°	9509.7	8717.7	7292.0	6162.4	5409.3	4700.3	3851.1	3152.6	2680.0	2313.8	2202.1
17.5°	10010.9	9063.0	7263.4	5791.0	4757.5	3752.5	2869.5	2290.4	1758.1	1552.9	1472.4
20°	10904.2	9673.3	7260.8	5359.9	4087.5	2890.3	2015.2	1493.2	1277.7	1179.0	1132.2
22.5°	12122.1	10504.3	7398.5	4988.6	3391.5	2132.0	1438.7	1189.4	1064.7	984.2	966.0
25°	13610.2	11735.2	7736.1	4736.7	2859.1	1672.4	1186.8	1018.0	914.1	877.7	862.2
27.5°	14932.0	12914.2	8107.4	4477.0	2477.4	1480.2	1101.1	932.3	849.2	820.6	797.2
30°	16072.0	13984.1	8286.6	4134.2	2171.0	1355.6	1116.7	997.2	888.1	802.4	763.5
32.5°	17022.4	14804.7	8403.4	3822.6	1911.3	1108.9	882.9	771.3	721.9	690.8	664.8
35°	18211.8	15692.8	8333.3	3646.0	1778.9	1010.2	805.0	664.8	581.7	519.4	493.4
37.5°	19458.3	16581.0	8211.3	3500.6	1719.1	937.5	766.1	631.0	540.1	475.2	441.5
40°	20748.9	17404.2	8068.4	3365.5	1664.6	890.7	742.7	602.5	511.6	441.5	405.1
42.5°	21930.5	18206.6	8011.3	3277.2	1576.3	898.5	724.5	589.5	483.0	410.3	379.1
45°	22886.1	18967.5	8089.2	3230.5	1480.2	885.5	729.7	573.9	459.6	389.5	358.4
47.5°	23906.7	20042.6	8341.1	3183.8	1386.7	823.2	768.7	571.3	449.3	376.5	342.8
50°	25093.5	21418.9	8917.6	3069.5	1272.5	755.7	818.0	568.7	436.3	361.0	327.2
52.5°	26675.0	22982.2	9512.3	2869.5	1106.3	690.8	781.7	560.9	410.3	342.8	309.0
55°	28095.4	24628.6	10016.1	2633.2	895.9	597.3	703.7	527.2	366.2	311.6	280.5
57.5°	28682.3	25558.3	10000.5	2306.0	716.7	524.6	579.1	483.0	319.4	275.3	249.3
59°	28466.8	25441.5	9665.5	2064.5	654.4	485.6	480.4	477.8	298.6	249.3	228.5
60°	28163.0	25015.6	9304.6	1945.0	615.5	459.6	441.5	472.6	280.5	233.7	212.9
62.5°	26999.6	23249.7	8107.4	1742.5	563.5	389.5	353.2	399.9	249.3	202.6	184.4
65°	25314.2	20536.0	6863.5	1685.4	547.9	322.0	293.4	285.7	212.9	171.4	155.8
67.5°	22026.6	17378.2	5559.9	1646.4	553.1	270.1	257.1	215.5	176.6	142.8	132.4
70°	17635.3	13550.4	4552.3	1602.3	558.3	220.7	215.5	171.4	142.8	119.5	109.1
72.5°	10714.7	8032.1	3583.7	1391.9	542.7	176.6	192.2	129.8	103.9	85.7	80.5
75°	6624.6	5497.6	2222.9	1082.9	358.4	129.8	135.0	80.5	70.1	54.5	54.5
77.5°	3838.2	3472.0	794.6	389.5	158.4	77.9	59.7	41.5	39.0	23.4	23.4
80°	1591.9	1275.1	275.3	132.4	85.7	36.4	13.0	2.6	0.0	0.0	0.0
82.5°	464.8	412.9	75.3	59.7	26.0	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°	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6
2.5°	9239.6	9153.9	9115.0	9247.4	9125.4	9281.2	9161.7	9213.7	9366.9	9434.4	9608.4
5°	6915.4	6827.1	6785.6	6985.6	6975.2	7073.9	7063.5	7154.4	7232.3	7058.3	7237.5
7.5°	4817.2	4757.5	4856.1	5011.9	5178.1	5123.6	5123.6	5001.6	5043.1	5017.1	5009.3
10°	3664.2	3459.0	3407.1	3401.9	3464.2	3477.2	3407.1	3238.3	3300.6	3318.8	3427.9
12.5°	2882.5	2724.1	2482.6	2373.5	2345.0	2368.3	2137.2	1989.2	2059.3	2017.8	2124.2
15°	2067.1	1937.3	1794.4	1672.4	1638.6	1591.9	1340.0	1163.4	1142.6	1150.4	1168.6
17.5°	1475.0	1386.7	1386.7	1256.9	1186.8	1046.5	919.3	841.4	833.6	841.4	854.4
20°	1088.1	1041.3	1036.1	1002.4	924.5	831.0	742.7	727.1	721.9	734.9	740.1
22.5°	937.5	888.1	846.6	844.0	771.3	693.4	651.8	631.0	633.6	638.8	651.8
25°	838.8	786.8	742.7	716.7	664.8	610.3	571.3	560.9	560.9	568.7	571.3
27.5°	768.7	703.7	664.8	628.4	581.7	535.0	501.2	493.4	488.2	493.4	506.4
30°	719.3	654.4	605.1	550.5	514.2	470.0	441.5	431.1	428.5	431.1	441.5
32.5°	615.5	576.5	537.6	488.2	444.1	415.5	384.3	366.2	366.2	371.4	381.7
35°	464.8	444.1	441.5	428.5	392.1	361.0	324.6	306.4	306.4	316.8	322.0
37.5°	410.3	371.4	366.2	361.0	345.4	303.8	270.1	254.5	251.9	259.7	270.1
40°	373.9	329.8	306.4	301.2	303.8	257.1	220.7	205.2	205.2	207.7	218.1
42.5°	345.4	293.4	251.9	246.7	257.1	215.5	179.2	163.6	163.6	163.6	176.6
45°	322.0	262.3	212.9	187.0	202.6	176.6	145.4	129.8	124.6	129.8	135.0
47.5°	306.4	238.9	187.0	150.6	150.6	140.2	116.9	98.7	93.5	96.1	103.9
50°	293.4	218.1	158.4	122.1	109.1	111.7	88.3	75.3	70.1	70.1	77.9
52.5°	272.7	197.4	137.6	103.9	83.1	75.3	64.9	54.5	51.9	54.5	59.7
55°	246.7	179.2	119.5	85.7	64.9	51.9	46.7	39.0	36.4	39.0	46.7
57.5°	218.1	150.6	96.1	67.5	44.1	33.8	31.2	26.0	20.8	23.4	28.6
59°	200.0	135.0	83.1	54.5	33.8	23.4	23.4	18.2	13.0	15.6	23.4
60°	192.2	124.6	70.1	46.7	28.6	18.2	18.2	13.0	7.8	10.4	18.2
62.5°	163.6	103.9	54.5	28.6	13.0	2.6	7.8	2.6	0.0	2.6	7.8
65°	137.6	83.1	36.4	13.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
67.5°	114.3	62.3	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	90.9	41.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	62.3	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.6	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: P457887  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6	11423.6
2.5°	9618.8	9990.1	10218.6	10649.7	11091.2	11431.4	11857.3	12239.0	12397.4	12480.5
5°	7419.2	7936.0	8374.9	9031.9	9642.1	10384.8	11137.9	12026.1	12366.3	12454.5
7.5°	5206.7	5733.9	6193.5	6954.4	7824.3	8818.9	9946.0	11073.0	11569.0	11709.2
10°	3760.3	4323.8	4884.7	5645.6	6458.4	7536.1	8709.9	10104.4	10675.7	10784.8
12.5°	2373.5	2978.6	3890.1	4830.2	5689.7	6557.1	7785.4	9302.0	9933.0	10133.0
15°	1376.3	1828.2	2516.4	3742.1	4835.4	5983.2	7323.1	9000.7	9707.1	9912.2
17.5°	921.9	1077.7	1550.3	2487.8	3931.6	5453.4	7206.3	9247.4	10029.1	10291.4
20°	776.5	846.6	1012.8	1516.6	3027.9	4980.8	7237.5	9917.4	10943.2	11270.4
22.5°	683.0	747.9	854.4	1090.7	2113.8	4393.9	7385.5	10875.7	12200.1	12618.1
25°	602.5	667.4	760.9	903.7	1420.5	3716.1	7710.1	12278.0	13864.6	14324.3
27.5°	535.0	594.7	675.2	797.2	1093.3	2960.4	7998.3	13643.9	15383.8	15757.8
30°	472.6	522.0	599.9	693.4	908.9	2282.6	8143.8	14838.5	16490.1	16905.6
32.5°	410.3	457.0	532.4	607.7	747.9	1739.9	8042.5	15716.2	17565.2	17830.1
35°	350.6	399.9	462.2	532.4	646.6	1404.9	7536.1	16703.0	18679.2	18887.0
37.5°	301.2	342.8	407.7	462.2	584.3	1124.4	6923.2	17591.1	19928.3	20227.0
40°	254.5	296.0	361.0	410.3	537.6	885.5	6370.1	18577.9	21244.9	21613.7
42.5°	207.7	257.1	314.2	394.7	462.2	675.2	5700.1	19377.8	22234.3	22696.6
45°	166.2	220.7	283.1	392.1	402.5	514.2	5053.5	20001.0	23109.5	23525.0
47.5°	132.4	187.0	272.7	366.2	329.8	407.7	4684.7	20652.8	23836.6	24169.0
50°	106.5	155.8	285.7	322.0	275.3	345.4	4674.4	21380.0	24213.1	24433.9
52.5°	85.7	127.2	241.5	246.7	233.7	303.8	4954.8	22198.0	24597.5	24779.3
55°	72.7	106.5	158.4	181.8	210.3	275.3	5165.2	23457.4	25514.2	25685.6
57.5°	57.1	90.9	122.1	145.4	187.0	251.9	5193.7	24428.7	26675.0	26786.6
59°	49.3	77.9	109.1	129.8	171.4	236.3	5076.9	24488.4	26750.3	26929.5
60°	41.5	70.1	96.1	122.1	158.4	223.3	4949.6	24054.7	26469.8	26669.8
62.5°	31.2	54.5	70.1	98.7	129.8	192.2	4347.1	22540.8	25397.3	25537.5
65°	20.8	39.0	51.9	72.7	101.3	166.2	3542.1	20577.5	23740.5	24054.7
67.5°	13.0	28.6	41.5	54.5	83.1	140.2	2524.1	17645.7	21421.5	21624.1
70°	7.8	18.2	31.2	44.1	64.9	111.7	1498.4	13947.7	17822.3	17863.8
72.5°	5.2	13.0	20.8	31.2	51.9	101.3	727.1	9091.6	13012.9	13508.9
75°	2.6	7.8	13.0	23.4	41.5	83.1	348.0	6074.1	9468.2	9611.0
77.5°	0.0	2.6	7.8	15.6	31.2	64.9	202.6	3988.8	6455.8	6603.8
80°	0.0	0.0	5.2	13.0	23.4	41.5	122.1	2352.8	3910.9	3983.6
82.5°	0.0	0.0	2.6	10.4	15.6	31.2	62.3	1033.6	2560.5	2586.5
85°	0.0	0.0	2.6	10.4	13.0	20.8	23.4	140.2	1137.4	1158.2
87.5°	0.0	0.0	2.6	13.0	13.0	13.0	13.0	7.8	96.1	119.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)