

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: P458255

Luminaire Tested: **GALN-SA9C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41495 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 481
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

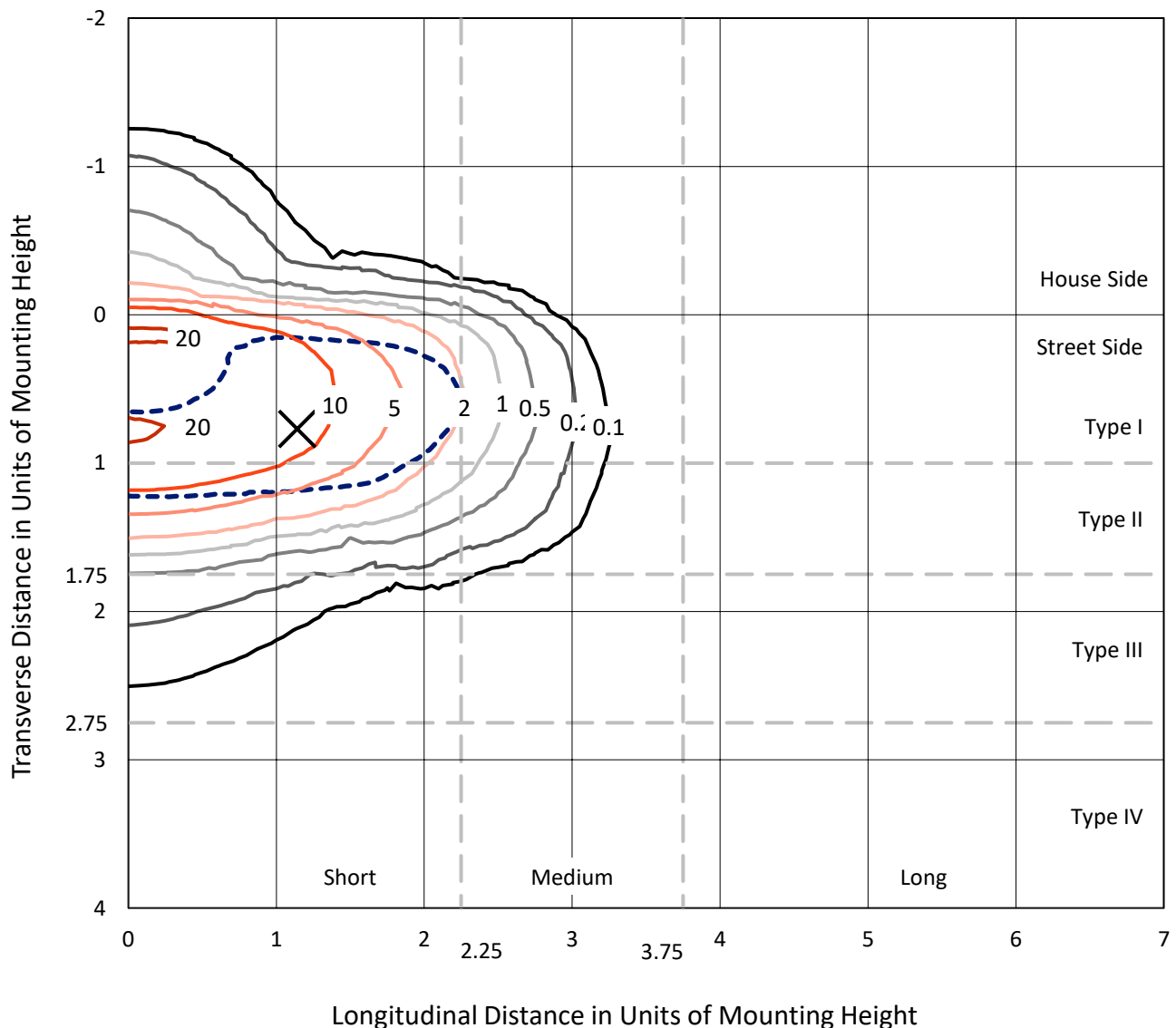


REPORT NUMBER: P458255

CATALOG NUMBER: GALN-SA9C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

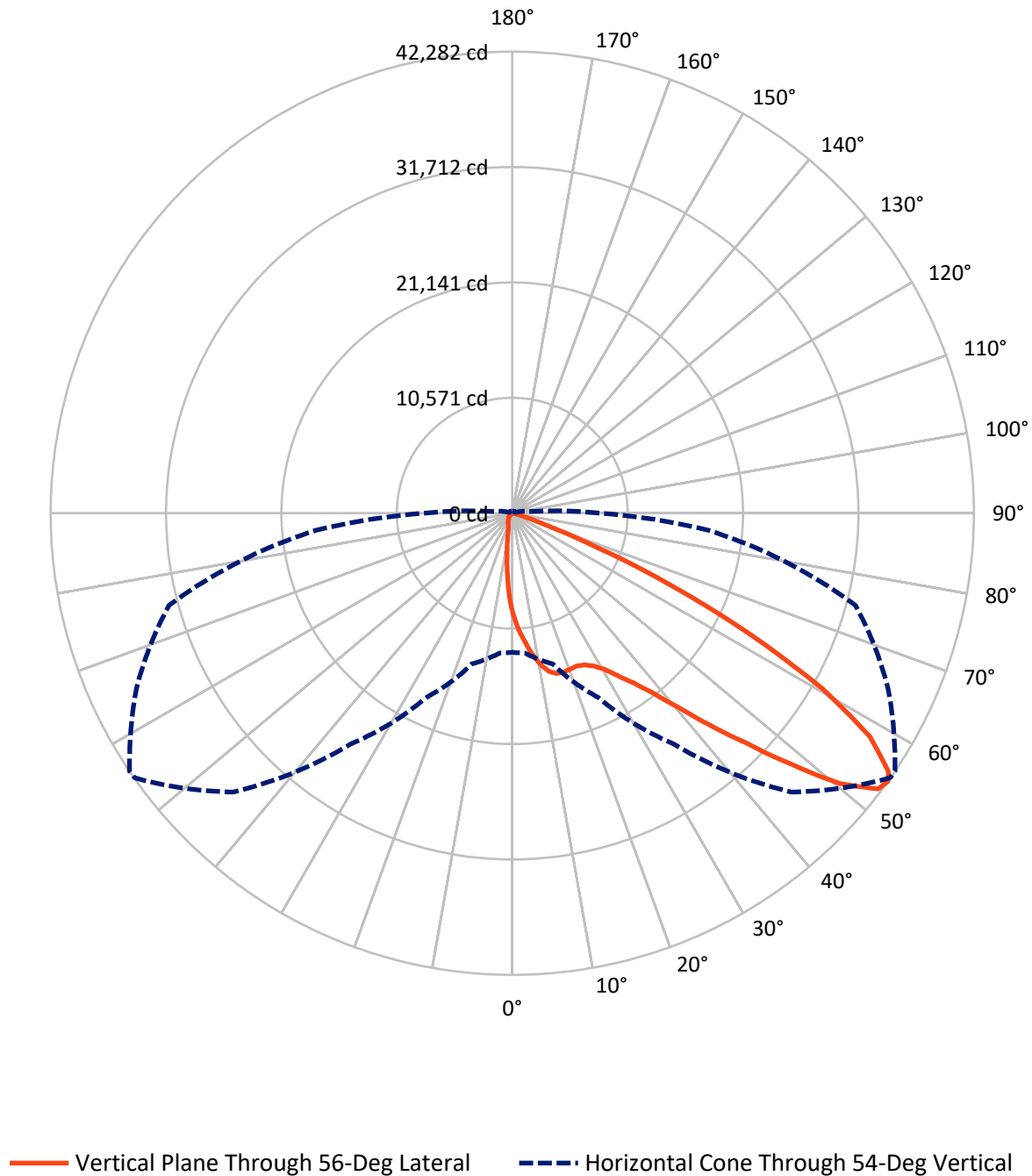


Based on 25 foot mounting height. Maximum calculated value = 22.1 fc

Type II - Short - N/A

REPORT NUMBER: P458255
CATALOG NUMBER: GALN-SA9C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P458255

CATALOG NUMBER: GALN-SA9C-830-U-AFL-HSS

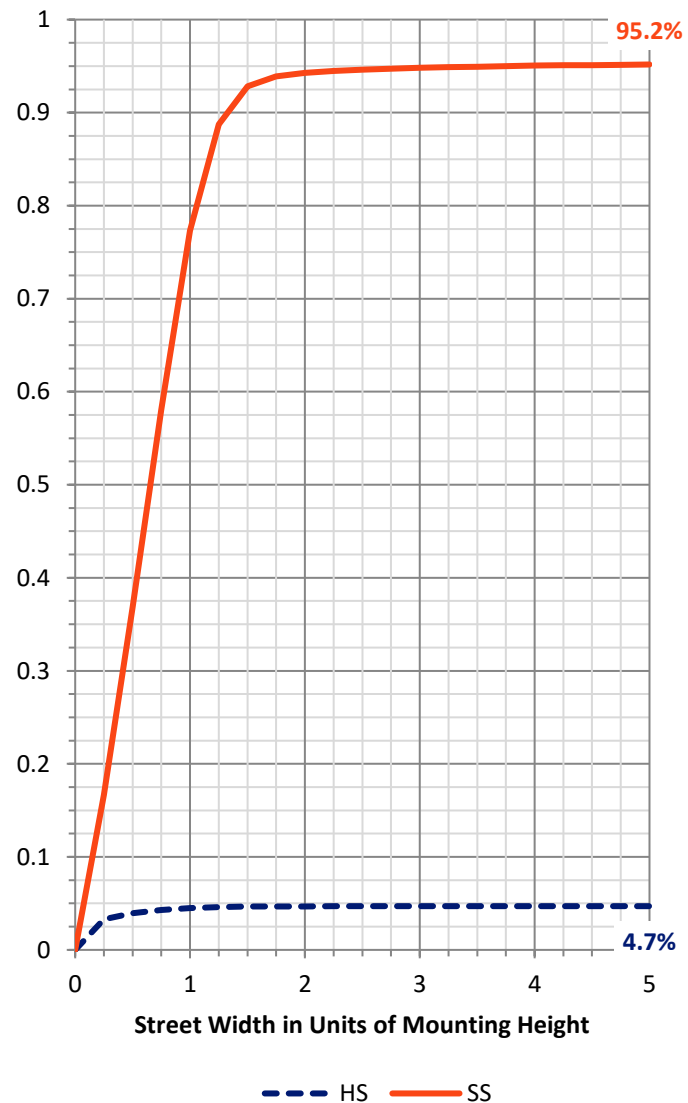
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1962.2	0.0	1962.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	39532.8	0.0	39532.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	41495.0	0.0	41495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.6	2.0
10°-20°	2202.3	5.3
20°-30°	3814.1	9.2
30°-40°	6583.8	15.9
40°-50°	11205.8	27.0
50°-60°	11089.6	26.7
60°-70°	5061.5	12.2
70°-80°	650.0	1.6
80°-90°	73.3	0.2
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°	41495.0	100.0
0°-180°	41495.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458255

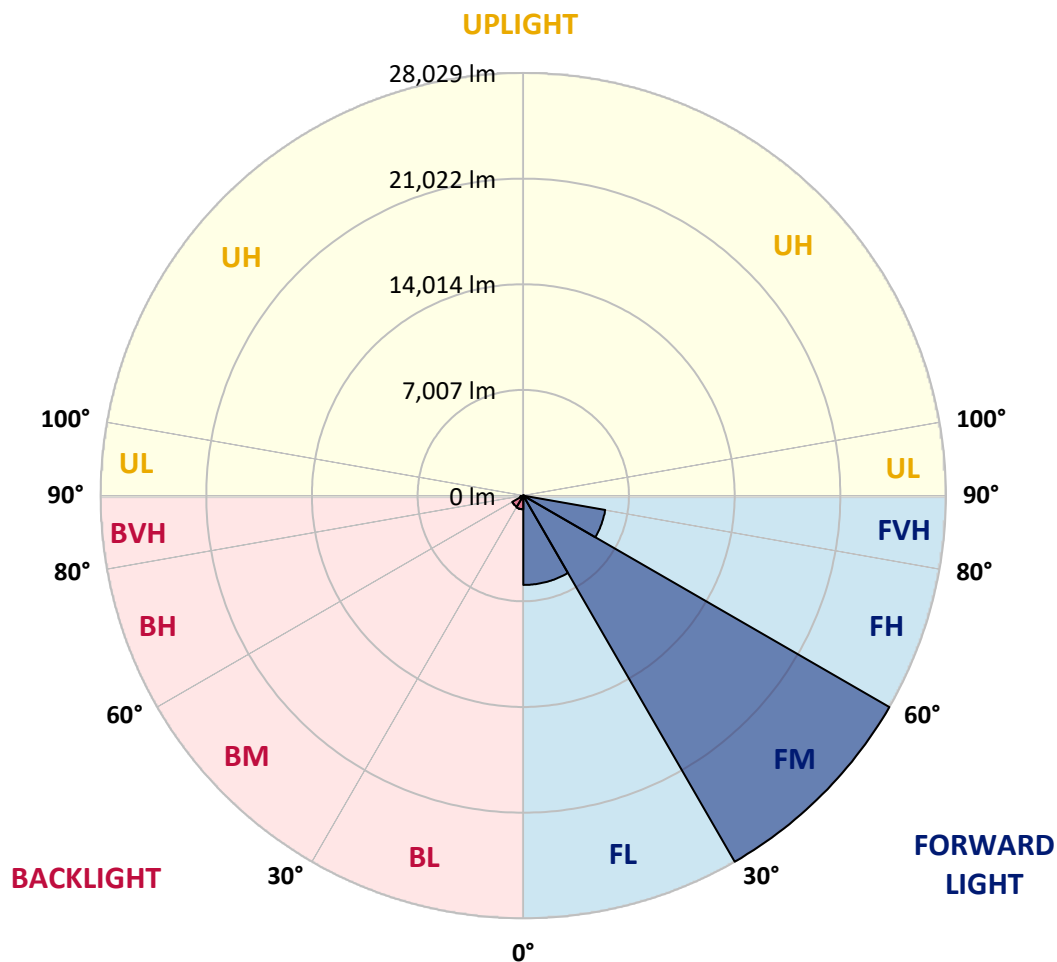
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5923.6	14.3			
FM	(30°-60°)	28028.8	67.5			
FH	(60°-80°)	5515.0	13.3			G3/7500
FVH	(80°-90°)	65.4	0.2			G1/100
BL	(0°-30°)	907.5	2.2	B2/1000		
BM	(30°-60°)	850.4	2.0	B1/1000		
BH	(60°-80°)	196.5	0.5	B1/500		G1/500
BVH	(80°-90°)	7.9	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 II Short





REPORT NUMBER: P458255

CATALOG NUMBER: GALN-SA9C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0
2.5°	11716.2	11635.0	11523.0	11436.3	11231.9	10937.9	10627.2	10627.2	10327.6	9910.5	9485.0
5°	13513.5	13460.4	13351.2	13127.2	12897.6	12486.1	11861.8	11752.6	11217.9	10462.0	9666.9
7.5°	14244.2	14269.4	14275.0	14216.2	14107.1	13701.1	13082.4	13006.8	12152.9	11139.5	9904.9
10°	13544.3	13667.5	13787.9	14031.5	14375.8	14473.8	14123.8	14045.5	13205.6	11825.4	10162.5
12.5°	12502.9	12570.1	12637.3	13020.8	13712.3	14504.6	14871.3	14868.5	14157.4	12508.5	10490.0
15°	12018.6	12077.4	12083.0	12253.7	12852.8	14006.3	15190.5	15232.5	15086.9	13351.2	10842.7
17.5°	12119.4	12166.9	12127.8	12169.7	12483.3	13457.6	15154.1	15294.1	15840.0	14160.2	11161.9
20°	12777.3	12869.6	12718.5	12600.9	12696.1	13312.0	15030.9	15226.9	16371.9	14949.7	11453.1
22.5°	13958.7	14009.1	13818.7	13496.7	13328.8	13617.1	14997.3	15190.5	16825.4	15596.4	11621.0
25°	15271.7	15254.9	15044.9	14683.8	14331.0	14233.0	15218.5	15392.1	17200.6	16178.7	11671.4
27.5°	16584.7	16635.1	16282.3	15834.4	15411.7	15156.9	15714.0	15842.8	17623.3	16842.2	11733.0
30°	18110.4	18029.3	17682.1	17169.8	16685.5	16329.9	16511.9	16548.3	18205.6	17721.3	11895.4
32.5°	20095.3	19871.4	19482.2	18586.4	18239.2	17637.3	17682.1	17726.9	18913.9	18592.0	12091.4
35°	22788.5	22777.3	22015.8	20809.2	19963.8	19216.3	19020.3	19056.7	19986.2	19885.4	12525.3
37.5°	26030.4	26075.2	25207.4	23992.3	22435.8	21248.8	20845.6	20851.2	21615.5	21671.5	13186.0
40°	28670.4	28788.0	28270.1	27449.8	25912.9	24056.7	23379.2	23317.6	23905.6	23835.6	14129.4
42.5°	29807.1	29916.2	30109.4	30395.0	29549.5	28018.1	26419.6	26503.6	26682.7	26192.8	15187.7
45°	29249.9	29423.5	30182.2	31945.9	32741.0	32225.9	30319.4	30025.4	29266.7	28754.4	16251.5
47.5°	26929.1	27351.8	28620.0	31556.8	34339.6	36080.9	34720.3	34331.2	31853.5	30624.5	16929.0
50°	23113.3	23138.5	24905.0	28659.2	33510.9	38513.7	39213.6	38922.5	34264.0	31674.4	17270.6
52.5°	16755.4	17307.0	18925.1	23272.9	29921.8	38144.2	42077.6	41957.2	36750.0	32211.9	17763.3
54°	12738.1	12844.4	14283.4	18597.6	25798.1	36114.5	42254.0	42282.0	37984.6	32536.6	18054.5
55°	10442.4	10187.6	11699.4	15842.8	22984.5	34320.0	41677.3	41811.6	38538.9	32704.6	18270.0
57.5°	4949.6	4952.4	6108.7	8356.7	14395.4	26649.1	38152.6	38628.5	38600.5	32993.0	18933.5
60°	2505.6	2522.4	2777.2	3857.8	7110.9	17715.7	31545.6	32679.4	35630.2	33035.0	19151.9
62.5°	1752.5	1732.9	1690.9	1856.1	2992.7	9003.4	23485.6	24471.1	30271.8	31436.4	18457.6
65°	1500.6	1458.6	1341.0	1315.8	1511.8	3586.3	14627.8	16234.7	23113.3	27220.3	16481.1
67.5°	1282.2	1265.4	1159.0	1094.6	1069.4	1562.2	7547.7	8393.1	15798.0	19566.2	12483.3
70°	1089.0	1080.6	1016.2	935.1	865.1	935.1	2799.6	3468.7	8804.7	10534.8	5890.3
72.5°	884.7	893.1	904.3	800.7	727.9	663.5	1195.4	1391.4	3684.2	3765.4	2060.5
75°	775.5	767.1	767.1	697.1	607.5	492.7	657.9	708.3	1128.2	1047.0	478.7
77.5°	545.9	526.3	615.9	573.9	506.7	349.9	375.1	397.5	467.5	400.3	224.0
80°	377.9	377.9	394.7	515.1	456.3	254.8	229.6	246.4	277.2	238.0	128.8
82.5°	212.8	218.4	257.6	274.4	266.0	170.8	151.2	154.0	184.8	162.4	81.2
85°	25.2	42.0	148.4	145.6	109.2	75.6	84.0	86.8	114.8	100.8	47.6
87.5°	2.8	5.6	30.8	39.2	28.0	30.8	30.8	30.8	39.2	44.8	33.6
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: P458255

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0	9219.0
2.5°	9255.4	9042.6	8535.9	7948.0	7572.8	6962.5	6447.4	6075.1	5982.7	5803.5	5856.7
5°	9244.2	8801.9	7768.8	6677.0	5512.4	4644.5	3997.8	3488.3	3264.3	3115.9	3012.3
7.5°	9249.8	8558.3	6900.9	5162.4	3771.0	2920.0	2320.8	2010.1	1802.9	1716.1	1727.3
10°	9266.6	8283.9	5893.1	3824.2	2544.8	1886.9	1520.2	1371.8	1301.8	1290.6	1287.8
12.5°	9305.8	7984.4	4930.0	2838.8	1780.5	1371.8	1231.8	1181.4	1159.0	1159.0	1150.6
15°	9347.8	7654.0	4129.4	2110.9	1371.8	1178.6	1114.2	1089.0	1075.0	1075.0	1072.2
17.5°	9347.8	7273.3	3381.9	1637.8	1181.4	1083.4	1033.0	999.4	988.2	988.2	985.4
20°	9289.0	6831.0	2718.4	1318.6	1072.2	993.8	943.5	907.1	893.1	887.5	884.7
22.5°	9084.6	6240.2	2164.1	1133.8	982.7	915.5	851.1	809.1	797.9	792.3	795.1
25°	8720.7	5574.0	1713.3	996.6	901.5	820.3	764.3	733.5	722.3	722.3	725.1
27.5°	8345.5	4876.9	1357.8	893.1	803.5	730.7	685.9	666.3	663.5	671.9	674.7
30°	7998.4	4177.0	1100.2	809.1	716.7	655.1	624.3	618.7	618.7	621.5	624.3
32.5°	7612.0	3563.9	921.1	736.3	646.7	593.5	576.7	576.7	582.3	582.3	587.9
35°	7368.5	3037.5	809.1	666.3	593.5	548.7	537.5	540.3	548.7	559.9	565.5
37.5°	7236.9	2617.6	736.3	610.3	543.1	512.3	501.1	506.7	526.3	545.9	548.7
40°	7248.1	2301.2	677.5	562.7	503.9	470.3	461.9	478.7	498.3	517.9	520.7
42.5°	7371.3	2066.1	621.5	506.7	470.3	422.7	419.9	436.7	445.1	464.7	467.5
45°	7516.9	1895.3	562.7	447.9	408.7	366.7	369.5	383.5	394.7	425.5	431.1
47.5°	7561.6	1777.7	495.5	380.7	335.9	322.0	324.8	333.1	355.5	383.5	386.3
50°	7612.0	1704.9	431.1	322.0	285.6	282.8	285.6	291.2	305.2	316.4	313.6
52.5°	7827.6	1702.1	377.9	280.0	243.6	249.2	252.0	249.2	238.0	221.2	215.6
54°	8029.2	1710.5	352.7	260.4	224.0	232.4	229.6	215.6	187.6	170.8	162.4
55°	8191.6	1718.9	338.7	246.4	212.8	215.6	218.4	190.4	154.0	137.2	131.6
57.5°	8510.7	1699.3	305.2	215.6	187.6	176.4	173.6	126.0	84.0	72.8	67.2
60°	8351.1	1534.2	277.2	184.8	159.6	142.8	117.6	70.0	42.0	30.8	30.8
62.5°	7724.0	1301.8	246.4	151.2	131.6	109.2	61.6	39.2	19.6	11.2	8.4
65°	6909.3	1094.6	221.2	120.4	103.6	70.0	33.6	25.2	8.4	0.0	0.0
67.5°	5137.2	811.9	187.6	95.2	78.4	44.8	22.4	14.0	2.8	0.0	0.0
70°	2379.6	495.5	159.6	72.8	56.0	33.6	16.8	8.4	0.0	0.0	0.0
72.5°	683.1	310.8	131.6	53.2	39.2	28.0	14.0	5.6	2.8	0.0	0.0
75°	238.0	249.2	98.0	39.2	30.8	19.6	11.2	5.6	2.8	0.0	0.0
77.5°	142.8	201.6	61.6	33.6	25.2	16.8	11.2	5.6	2.8	2.8	0.0
80°	81.2	134.4	39.2	28.0	22.4	14.0	8.4	5.6	2.8	2.8	0.0
82.5°	44.8	64.4	30.8	25.2	19.6	14.0	8.4	5.6	2.8	2.8	2.8
85°	36.4	33.6	25.2	22.4	16.8	11.2	8.4	2.8	0.0	0.0	0.0
87.5°	28.0	22.4	22.4	22.4	16.8	11.2	8.4	2.8	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

(END OF REPORT)