

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: STREETWORKS

Report Number: P318661

Luminaire Tested: **GAN-SA7D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46172 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

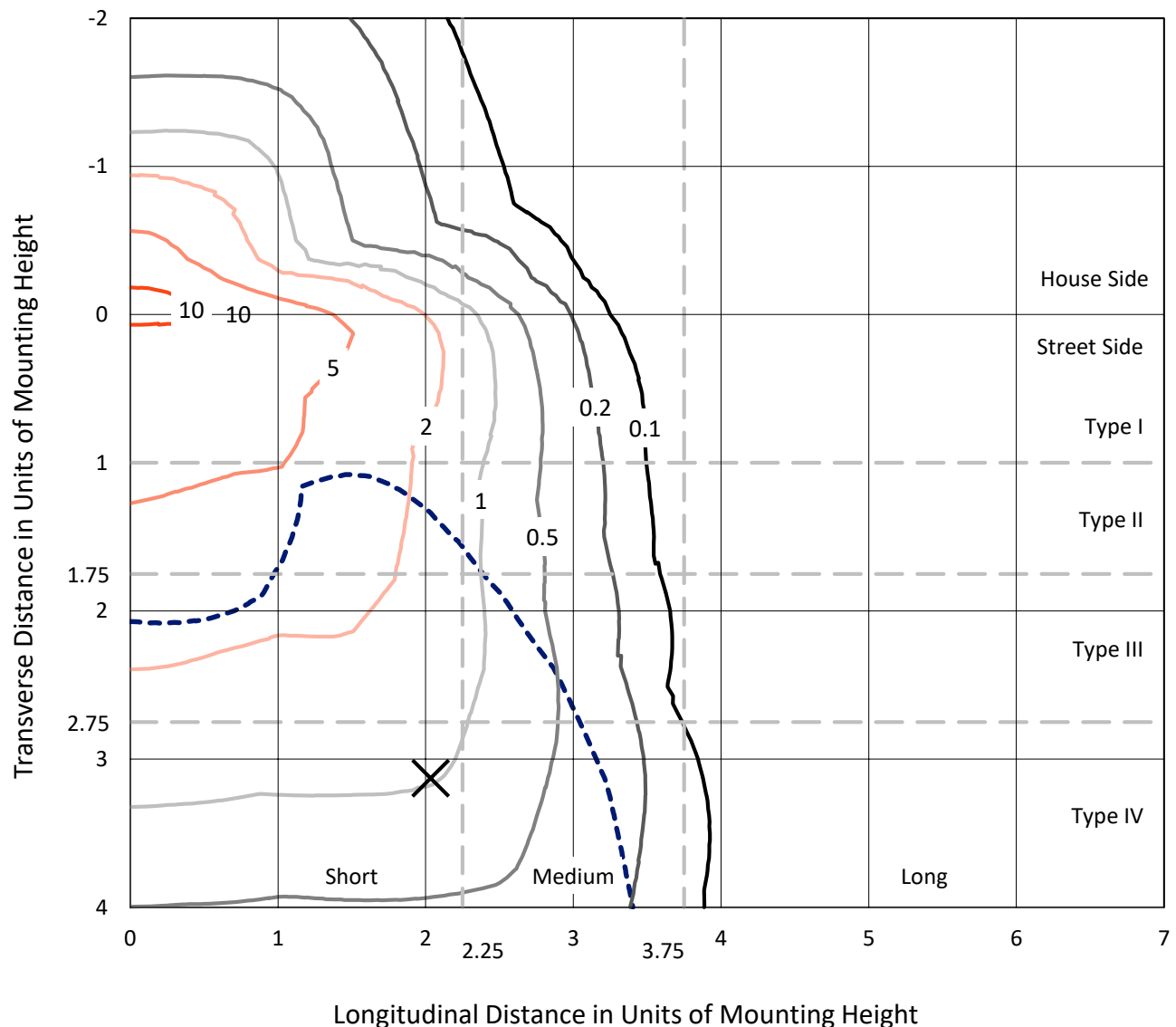
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318661
 CATALOG NUMBER: GAN-SA7D-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

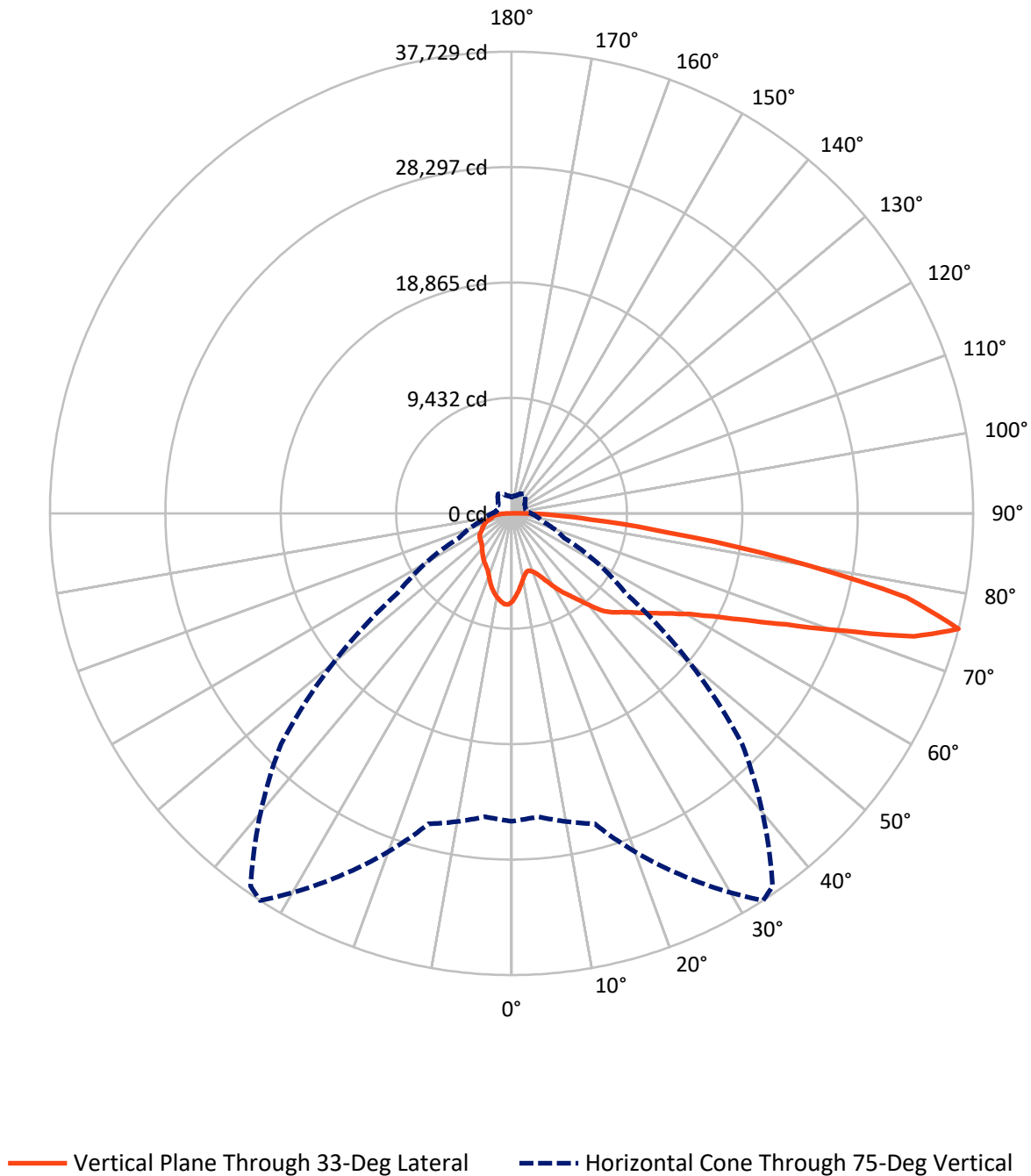
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P318661
CATALOG NUMBER: GAN-SA7D-727-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318661

CATALOG NUMBER: GAN-SA7D-727-U-T4FT

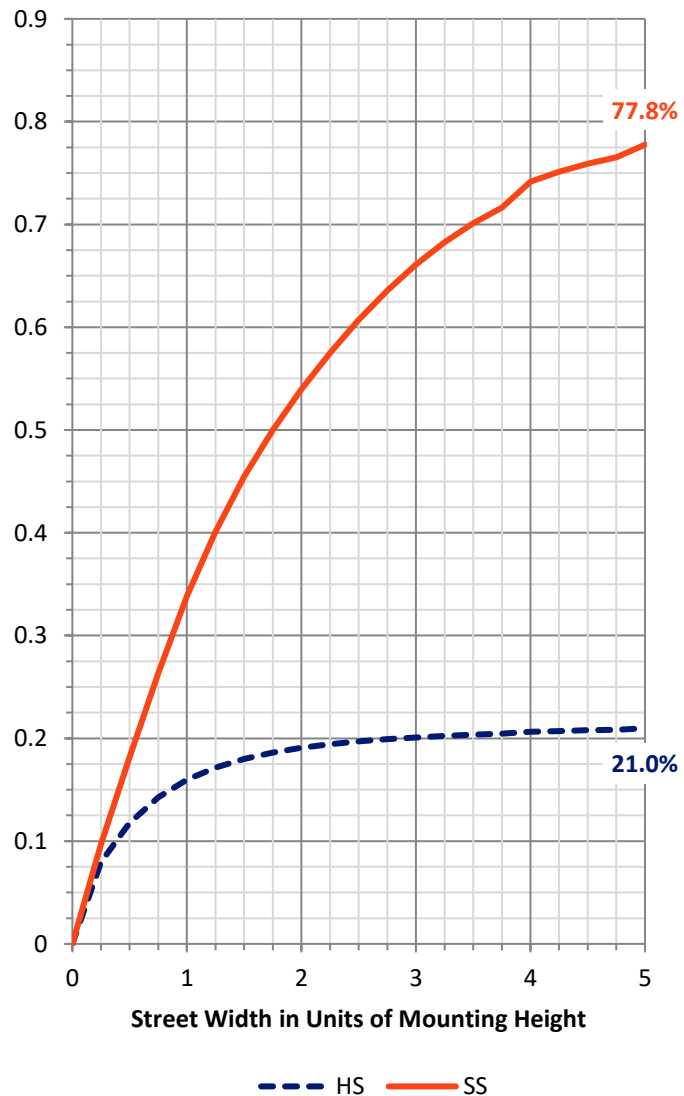
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9914.3	0.0	9914.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	36257.7	0.0	36257.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	46172.0	0.0	46172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.7	1.4
10°-20°	1767.7	3.8
20°-30°	2887.0	6.3
30°-40°	4299.4	9.3
40°-50°	6166.5	13.4
50°-60°	8465.6	18.3
60°-70°	10598.6	23.0
70°-80°	9588.0	20.8
80°-90°	1746.5	3.8
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°	46172.0	100.0
0°-180°	46172.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318661

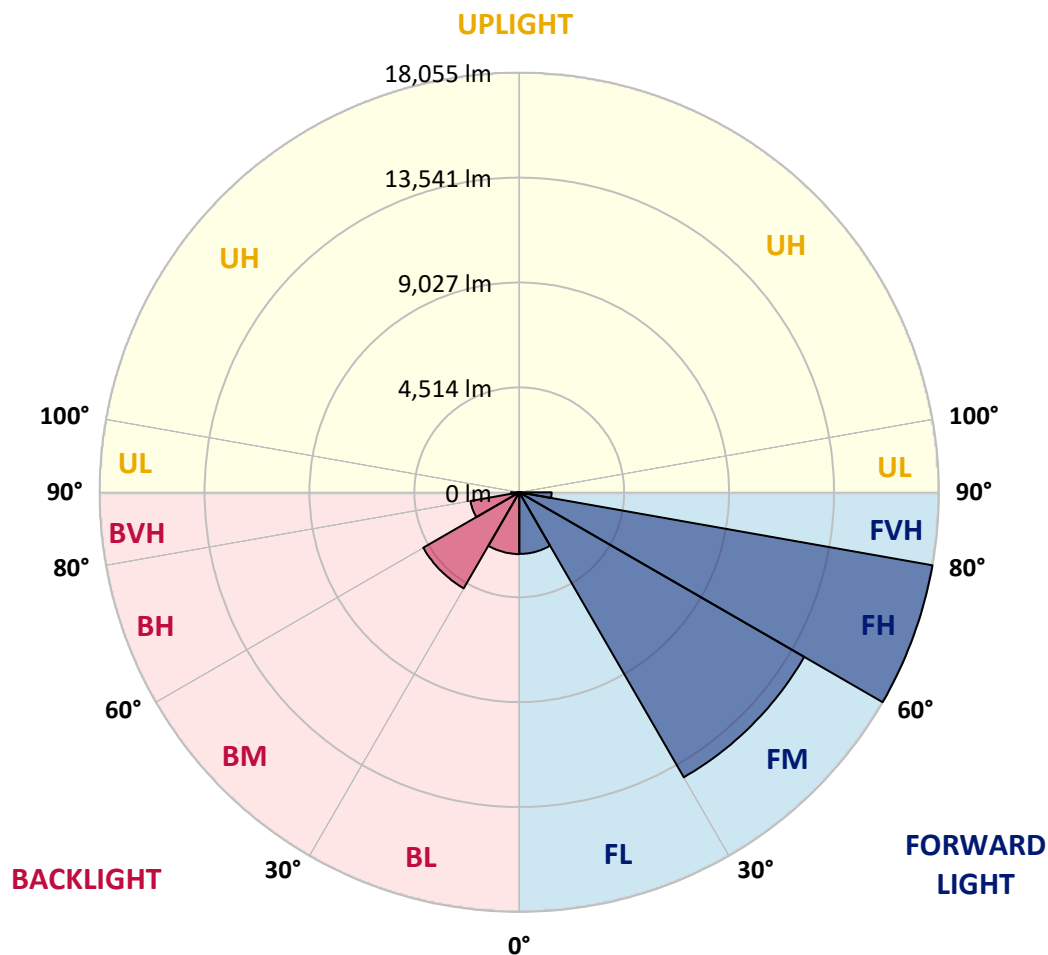
CATALOG NUMBER: GAN-SA7D-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2651.9	5.7			
FM	(30°-60°)	14160.0	30.7			
FH	(60°-80°)	18054.9	39.1			G5
FVH	(80°-90°)	1390.9	3.0			G5
BL	(0°-30°)	2655.5	5.8	B4/5000		
BM	(30°-60°)	4771.5	10.3	B3/5000		
BH	(60°-80°)	2131.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	355.6	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P318661

CATALOG NUMBER: GAN-SA7D-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9
2.5°	6701.8	6676.3	6724.1	6730.5	6772.0	6787.9	6845.3	6934.6	7008.0	7092.5	7169.1
5°	6094.1	6076.6	6143.6	6191.4	6282.3	6320.6	6456.2	6646.0	6815.0	7006.4	7180.3
7.5°	5516.8	5507.2	5582.2	5690.6	5795.9	5848.5	6083.0	6358.9	6641.2	6950.6	7216.9
10°	5030.3	5027.1	5098.9	5205.8	5360.5	5419.5	5722.5	6086.2	6481.7	6907.5	7279.1
12.5°	4757.6	4768.8	4802.3	4891.6	5035.1	5094.1	5430.6	5858.1	6347.7	6893.2	7370.1
15°	4824.6	4842.1	4784.7	4781.5	4883.6	4929.8	5245.6	5695.4	6252.0	6917.1	7502.4
17.5°	5110.1	5113.3	4961.7	4866.1	4928.3	4952.2	5188.2	5602.9	6196.2	6971.3	7668.3
20°	5512.0	5504.0	5236.1	5076.6	5110.1	5116.5	5269.6	5604.5	6191.4	7065.4	7883.6
22.5°	6044.7	5985.7	5625.2	5408.3	5400.3	5390.8	5478.5	5722.5	6261.6	7218.5	8140.4
25°	6740.1	6684.2	6188.2	5891.6	5827.8	5803.9	5816.6	5974.5	6400.4	7382.8	8427.5
27.5°	7513.6	7416.3	6937.8	6518.4	6386.0	6352.5	6275.9	6330.2	6551.9	7540.7	8768.8
30°	8161.1	8108.5	7690.6	7193.0	7036.7	6988.9	6787.9	6728.9	6770.4	7756.0	9199.4
32.5°	8523.2	8488.1	8234.5	7832.6	7687.4	7620.5	7336.6	7218.5	7121.2	8095.7	9783.1
35°	8961.8	8939.4	8786.3	8494.5	8279.1	8209.0	7988.9	7866.1	7615.7	8563.0	10537.5
37.5°	9520.0	9496.1	9499.3	9263.2	9006.4	8941.0	8795.9	8666.7	8256.8	9177.1	11357.3
40°	10151.6	10105.3	10087.8	10076.6	9913.9	9877.2	9800.7	9625.2	9060.7	9910.7	12165.9
42.5°	11102.1	10937.9	10587.0	10719.4	10880.4	10861.3	10923.5	10671.5	9953.8	10778.4	12955.4
45°	12019.2	11749.7	11143.6	11172.3	11524.8	11631.6	12097.3	11918.7	10921.9	11728.9	13772.0
47.5°	12437.1	12232.9	11717.8	11719.4	12068.6	12290.3	13311.1	13183.5	11939.5	12808.7	14768.8
50°	12904.4	12700.2	12237.7	12411.5	12716.2	12952.2	14483.3	14417.9	12907.6	13990.5	15963.4
52.5°	13414.7	13068.6	12775.2	13086.2	13513.6	13787.9	15657.2	15478.5	13795.9	15180.3	17336.6
55°	13421.1	13327.0	13550.3	13778.4	14417.9	14754.5	16886.8	16414.8	14520.0	16349.4	18454.6
57.5°	14185.1	14032.0	14505.7	14610.9	15446.6	15826.2	18110.1	17229.8	15256.9	17245.7	19057.5
60°	15196.2	15065.5	15453.0	15730.5	16719.4	17226.6	19416.4	18067.1	15835.8	17921.9	19028.8
62.5°	16942.7	16794.3	16789.6	17178.7	18510.5	19100.6	20882.1	18888.5	16065.5	18055.9	18217.0
65°	19499.3	19263.3	18818.3	19003.3	20984.2	21572.7	22520.1	19483.4	15762.4	17338.2	16126.1
67.5°	21987.4	21979.4	21432.3	21811.9	24250.5	24722.6	24386.1	19542.4	14816.7	14839.0	12416.3
70°	24467.4	24499.3	24406.8	25727.4	28663.6	29154.9	26373.3	18749.7	12690.7	10716.2	7438.6
72.5°	26432.4	26424.4	26890.1	30295.2	34390.9	34280.9	28048.0	16347.8	9111.7	5784.7	3555.0
75°	25159.6	24882.1	26269.7	32556.8	37729.1	37191.6	26623.7	11403.6	4728.9	2633.2	1913.9
77.5°	16410.0	16673.1	18709.8	26894.9	33001.8	32347.9	19532.8	5320.6	2228.1	1727.3	1387.6
80°	5942.6	6220.1	8760.8	15234.5	22737.0	22630.1	9618.9	2186.6	1507.2	1304.6	1011.2
82.5°	2044.7	2146.7	3456.2	6765.6	12837.4	13315.9	3618.8	1242.4	1095.7	925.0	692.2
85°	802.2	918.7	1580.6	3255.2	6475.3	6523.2	1465.7	743.2	762.4	606.1	379.6
87.5°	304.6	370.0	756.0	1512.0	2957.0	2716.1	524.7	354.1	433.8	360.4	180.2
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: P318661

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9	7216.9
2.5°	7228.1	7261.6	7331.8	7379.6	7430.7	7445.0	7451.4	7464.2	7476.9	7472.1	7473.7
5°	7272.8	7338.2	7451.4	7499.2	7521.6	7496.1	7446.6	7406.7	7378.0	7362.1	7357.3
7.5°	7346.1	7438.6	7559.8	7551.9	7500.8	7387.6	7260.0	7164.3	7084.6	7055.9	7039.9
10°	7443.4	7551.9	7636.4	7545.5	7397.2	7201.0	7009.6	6861.3	6741.7	6695.4	6687.4
12.5°	7567.8	7677.9	7693.8	7500.8	7255.2	6987.3	6727.3	6531.1	6352.5	6295.1	6282.3
15°	7728.9	7832.6	7733.7	7422.7	7079.8	6719.3	6382.8	6116.5	5928.3	5858.1	5832.6
17.5°	7898.0	7996.9	7741.7	7293.5	6850.1	6401.9	5979.3	5706.6	5491.3	5409.9	5400.3
20°	8100.5	8145.2	7708.2	7108.5	6534.3	5990.5	5545.5	5288.7	5173.9	5116.5	5110.1
22.5°	8350.9	8303.1	7631.6	6858.1	6134.0	5515.2	5153.1	5033.5	5004.8	4992.1	4996.8
25°	8615.7	8468.9	7518.4	6531.1	5628.4	5039.9	4866.1	4899.5	4937.8	4933.0	4933.0
27.5°	8907.5	8638.0	7344.5	6097.3	5068.6	4650.7	4671.5	4794.3	4851.7	4850.1	4848.5
30°	9282.3	8829.4	7122.8	5575.8	4545.5	4376.4	4502.4	4652.3	4730.5	4727.3	4728.9
32.5°	9743.3	9039.9	6821.4	4993.6	4167.5	4173.9	4319.0	4467.3	4558.2	4550.3	4551.9
35°	10282.3	9276.0	6413.1	4419.5	3917.1	4012.8	4127.6	4231.3	4317.4	4306.2	4295.1
37.5°	10869.3	9507.2	5870.8	3905.9	3712.9	3862.9	3958.6	3976.1	4016.0	3987.3	3966.5
40°	11427.5	9684.3	5172.3	3484.9	3507.2	3735.3	3797.5	3727.3	3655.5	3646.0	3617.2
42.5°	11913.9	9743.3	4465.7	3148.3	3290.3	3601.3	3639.6	3492.8	3363.7	3303.0	3277.5
45°	12427.5	9764.0	3807.0	2866.0	3081.4	3481.7	3523.1	3327.0	3145.2	3014.4	2971.3
47.5°	13098.9	9913.9	3295.1	2657.1	2921.9	3401.9	3460.9	3194.6	2958.5	2771.9	2732.1
50°	13977.7	10210.6	2878.8	2497.6	2818.2	3349.3	3416.3	3065.4	2805.4	2580.6	2540.7
52.5°	14953.8	10483.3	2542.3	2368.4	2717.7	3256.8	3358.9	2972.9	2661.9	2403.5	2360.5
55°	15636.4	10274.4	2271.1	2234.5	2586.9	3124.4	3279.1	2894.8	2456.2	2231.3	2193.0
57.5°	15767.2	9559.9	2065.4	2095.7	2429.0	2958.5	3156.3	2720.9	2344.5	2156.3	2116.4
60°	15410.0	8564.6	1912.3	1968.1	2260.0	2749.6	2926.6	2598.1	2237.7	2076.6	2043.1
62.5°	14512.0	7545.5	1799.1	1853.3	2102.1	2537.5	2783.1	2468.9	2129.2	1985.7	1952.2
65°	12698.6	6335.0	1690.6	1751.2	1955.4	2354.1	2653.9	2349.3	2022.3	1912.3	1880.4
67.5°	9585.4	4744.8	1588.5	1642.8	1824.6	2194.6	2513.6	2231.3	1918.7	1848.5	1810.2
70°	5644.4	2971.3	1472.1	1529.5	1687.4	2028.7	2363.6	2102.1	1789.5	1757.6	1708.1
72.5°	2626.8	1787.9	1339.7	1395.5	1515.2	1807.0	2170.7	1933.0	1636.4	1566.2	1499.2
75°	1567.8	1307.8	1183.4	1232.9	1317.4	1571.0	1928.2	1760.8	1491.2	1398.7	1328.6
77.5°	1172.3	1000.0	1011.2	1063.8	1132.4	1374.8	1708.1	1625.2	1379.6	1307.8	1260.0
80°	843.7	759.2	824.6	882.0	953.8	1250.4	1636.4	1502.4	1247.2	1151.5	1106.9
82.5°	563.0	545.5	620.4	679.4	749.6	1094.1	1537.5	1315.8	1065.4	944.2	845.3
85°	311.0	328.6	417.9	443.4	504.0	770.3	1260.0	1057.4	802.2	645.9	617.2
87.5°	129.2	151.5	224.9	216.9	267.9	459.3	829.4	638.0	510.4	381.2	296.7
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)