

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: P318862

Luminaire Tested: **GAN-SA8D-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318862
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-SA8D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 45988 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

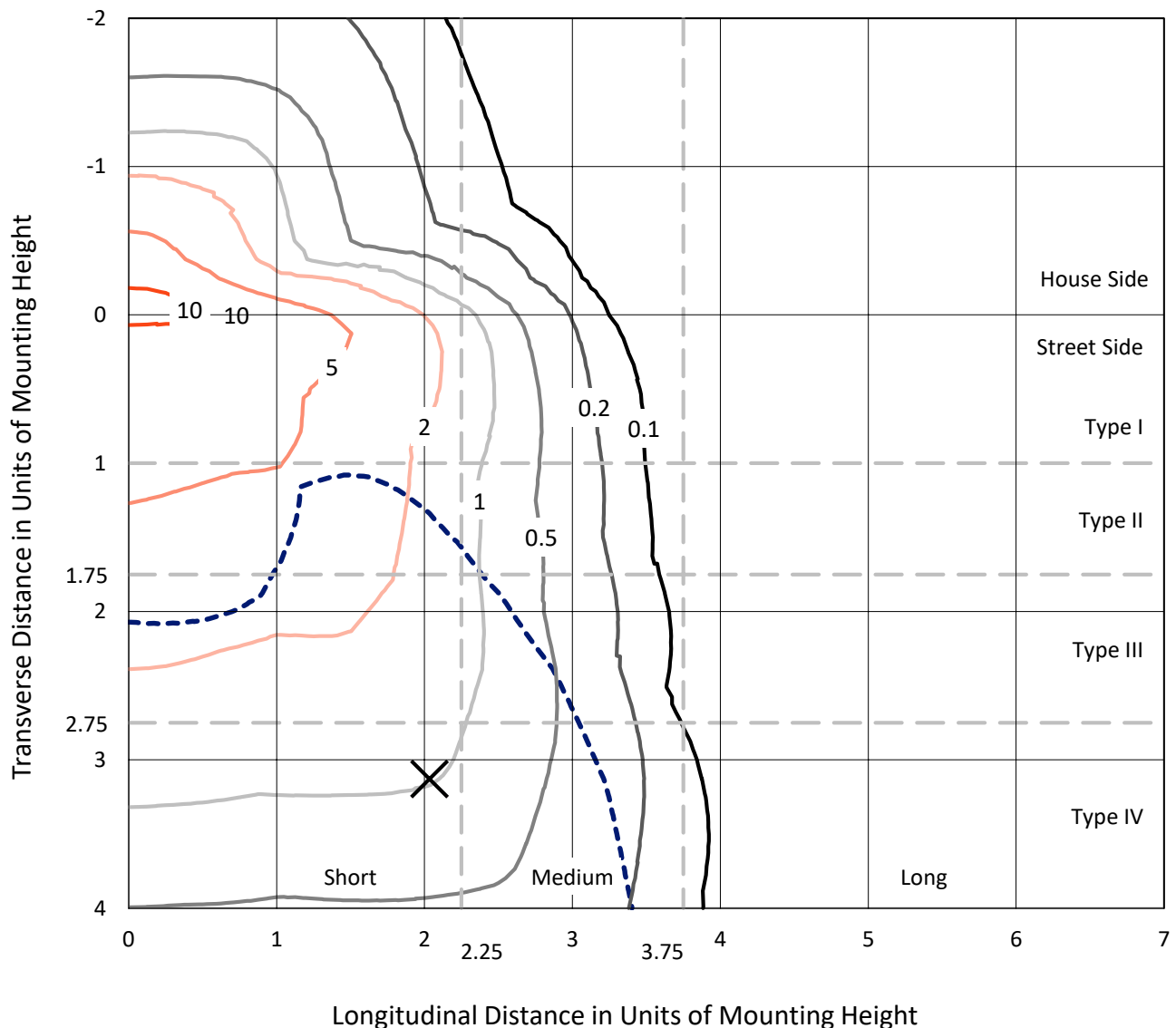
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318862
 CATALOG NUMBER: GAN-SA8D-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

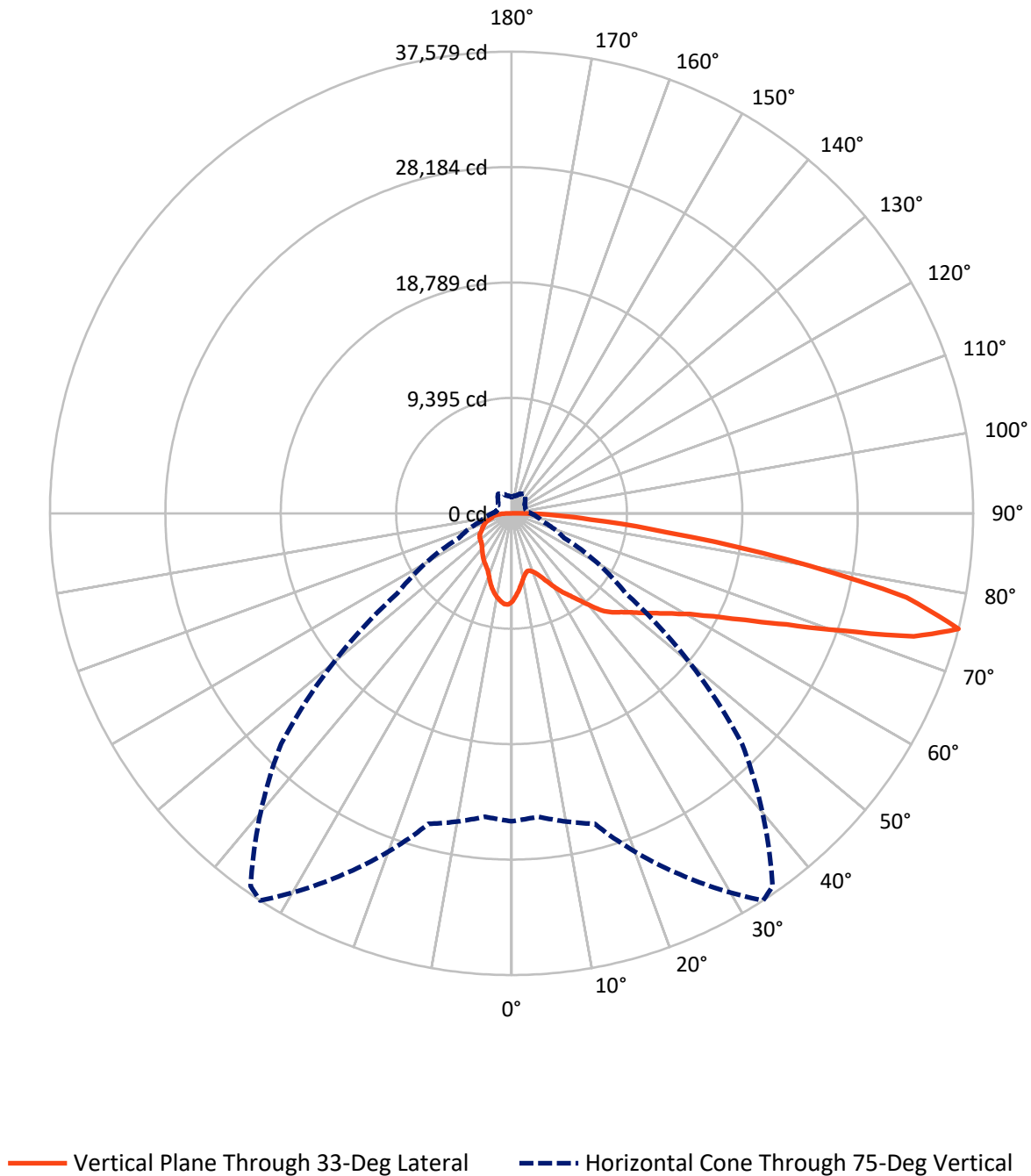
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P318862
CATALOG NUMBER: GAN-SA8D-827-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318862

CATALOG NUMBER: GAN-SA8D-827-U-T4FT

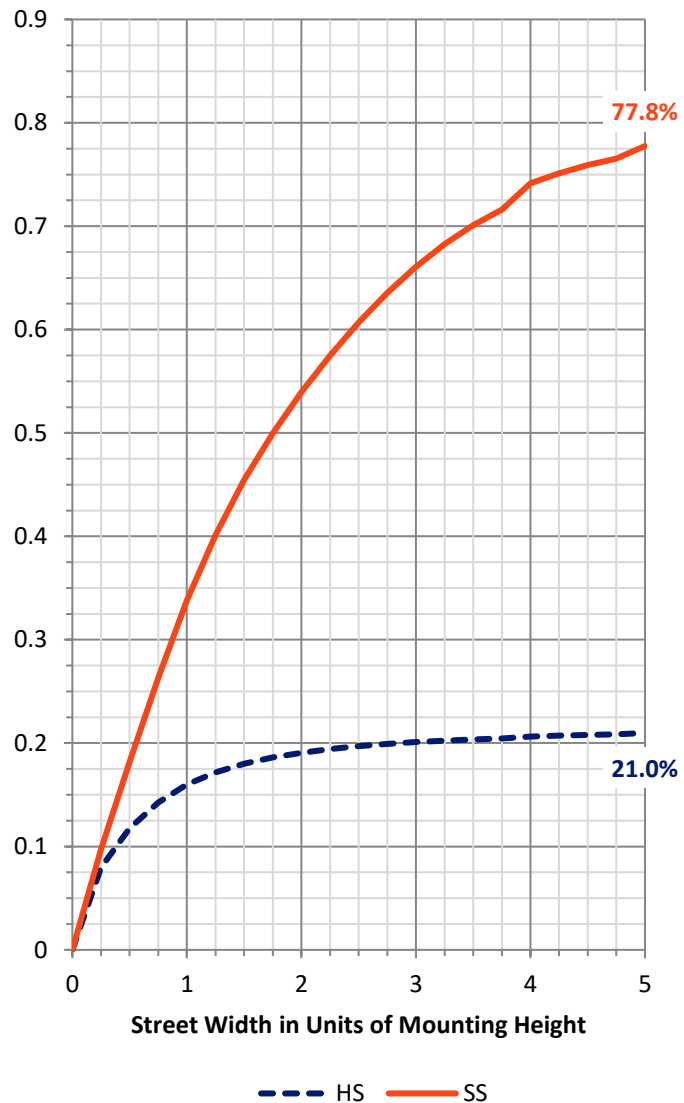
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9874.8	0.0	9874.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	36113.2	0.0	36113.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	45988.0	0.0	45988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.1	1.4
10°-20°	1760.7	3.8
20°-30°	2875.5	6.3
30°-40°	4282.2	9.3
40°-50°	6141.9	13.4
50°-60°	8431.9	18.3
60°-70°	10556.4	23.0
70°-80°	9549.8	20.8
80°-90°	1739.6	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°	45988.0	100.0
0°-180°	45988.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318862

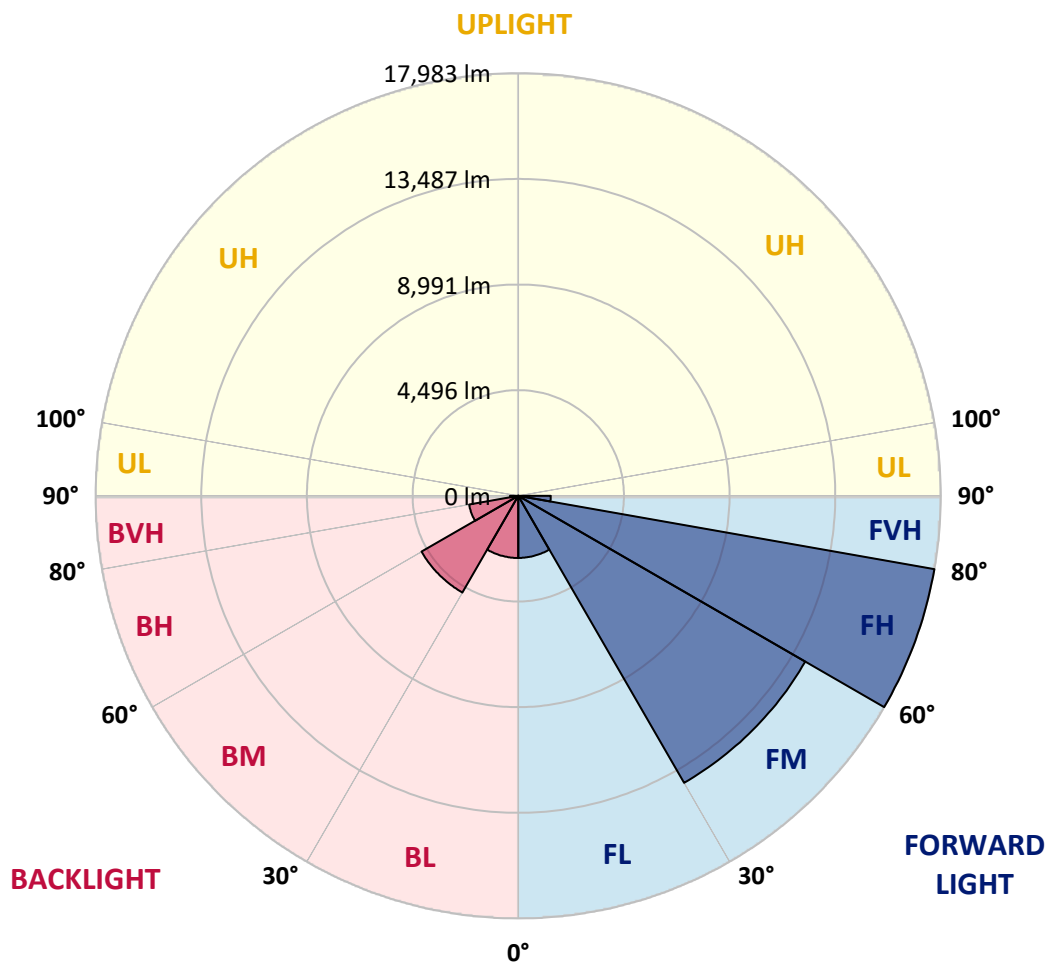
CATALOG NUMBER: GAN-SA8D-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2641.3	5.7			
FM	(30°-60°)	14103.6	30.7			
FH	(60°-80°)	17982.9	39.1			G5
FVH	(80°-90°)	1385.4	3.0			G5
BL	(0°-30°)	2644.9	5.8	B4/5000		
BM	(30°-60°)	4752.5	10.3	B3/5000		
BH	(60°-80°)	2123.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	354.2	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: P318862

CATALOG NUMBER: GAN-SA8D-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2
2.5°	6675.1	6649.7	6697.3	6703.7	6745.0	6760.9	6818.1	6907.0	6980.1	7064.3	7140.5
5°	6069.8	6052.4	6119.1	6166.7	6257.3	6295.4	6430.4	6619.5	6787.9	6978.5	7151.6
7.5°	5494.8	5485.3	5559.9	5667.9	5772.8	5825.2	6058.7	6333.5	6614.7	6922.9	7188.2
10°	5010.3	5007.1	5078.6	5185.0	5339.1	5397.9	5699.7	6061.9	6455.9	6880.0	7250.1
12.5°	4738.6	4749.8	4783.1	4872.1	5015.0	5073.8	5409.0	5834.7	6322.4	6865.7	7340.7
15°	4805.4	4822.8	4765.6	4762.5	4864.1	4910.2	5224.7	5672.7	6227.1	6889.5	7472.5
17.5°	5089.7	5092.9	4942.0	4846.7	4908.6	4932.4	5167.5	5580.6	6171.5	6943.5	7637.7
20°	5490.0	5482.1	5215.2	5056.4	5089.7	5096.1	5248.6	5582.2	6166.7	7037.3	7852.2
22.5°	6020.6	5961.8	5602.8	5386.8	5378.8	5369.3	5456.7	5699.7	6236.6	7189.8	8108.0
25°	6713.2	6657.6	6163.6	5868.1	5804.6	5780.7	5793.4	5950.7	6374.8	7353.4	8393.9
27.5°	7483.7	7386.8	6910.2	6492.4	6360.5	6327.2	6250.9	6304.9	6525.8	7510.7	8733.8
30°	8128.6	8076.2	7660.0	7164.4	7008.7	6961.0	6760.9	6702.1	6743.4	7725.1	9162.7
32.5°	8489.2	8454.3	8201.7	7801.4	7656.8	7590.1	7307.3	7189.8	7092.9	8063.5	9744.2
35°	8926.1	8903.8	8751.3	8460.6	8246.2	8176.3	7957.0	7834.7	7585.3	8528.9	10495.5
37.5°	9482.0	9458.2	9461.4	9226.3	8970.5	8905.4	8760.8	8632.2	8223.9	9140.5	11312.1
40°	10111.1	10065.0	10047.6	10036.4	9874.4	9837.9	9761.6	9586.9	9024.5	9871.2	12117.4
42.5°	11057.9	10894.3	10544.8	10676.6	10837.1	10818.0	10880.0	10629.0	9914.1	10735.4	12903.8
45°	11971.3	11702.8	11099.2	11127.8	11478.9	11585.3	12049.1	11871.2	10878.4	11682.2	13717.1
47.5°	12387.5	12184.2	11671.1	11672.7	12020.5	12241.4	13258.0	13130.9	11891.9	12757.6	14710.0
50°	12852.9	12649.6	12188.9	12362.1	12665.5	12900.6	14425.6	14360.5	12856.1	13934.7	15899.8
52.5°	13361.3	13016.6	12724.3	13034.0	13459.8	13733.0	15594.8	15416.9	13740.9	15119.8	17267.5
55°	13367.6	13273.9	13496.3	13723.5	14360.5	14695.7	16819.6	16349.3	14462.1	16284.2	18381.1
57.5°	14128.6	13976.1	14447.8	14552.7	15385.1	15763.2	18038.0	17161.1	15196.1	17177.0	18981.6
60°	15135.7	15005.4	15391.4	15667.9	16652.8	17157.9	19339.0	17995.1	15772.7	17850.5	18953.0
62.5°	16875.2	16727.4	16722.7	17110.3	18436.7	19024.5	20798.9	18813.2	16001.4	17984.0	18144.4
65°	19421.6	19186.5	18743.3	18927.6	20900.5	21486.7	22430.3	19405.7	15699.6	17269.1	16061.8
67.5°	21899.7	21891.8	21346.9	21725.0	24153.9	24624.1	24288.9	19464.5	14757.6	14779.9	12366.9
70°	24369.9	24401.7	24309.6	25624.9	28549.4	29038.7	26268.2	18675.0	12640.1	10673.5	7409.0
72.5°	26327.0	26319.1	26782.9	30174.5	34253.9	34144.3	27936.2	16282.6	9075.4	5761.7	3540.9
75°	25059.4	24782.9	26165.0	32427.0	37578.7	37043.4	26517.6	11358.1	4710.0	2622.7	1906.3
77.5°	16344.6	16606.7	18635.3	26787.7	32870.2	32218.9	19455.0	5299.4	2219.2	1720.4	1382.0
80°	5918.9	6195.3	8725.9	15173.8	22646.3	22539.9	9580.5	2177.9	1501.2	1299.4	1007.1
82.5°	2036.5	2138.2	3442.4	6738.6	12786.2	13262.8	3604.4	1237.5	1091.3	921.4	689.4
85°	799.0	915.0	1574.3	3242.2	6449.5	6497.2	1459.9	740.3	759.3	603.6	378.1
87.5°	303.4	368.5	753.0	1505.9	2945.2	2705.3	522.6	352.7	432.1	359.0	179.5
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: P318862

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2	7188.2
2.5°	7199.3	7232.7	7302.6	7350.2	7401.0	7415.3	7421.7	7434.4	7447.1	7442.4	7443.9
5°	7243.8	7308.9	7421.7	7469.4	7491.6	7466.2	7416.9	7377.2	7348.6	7332.7	7328.0
7.5°	7316.9	7409.0	7529.7	7521.8	7470.9	7358.2	7231.1	7135.8	7056.3	7027.7	7011.9
10°	7413.8	7521.8	7606.0	7515.4	7367.7	7172.3	6981.7	6833.9	6714.8	6668.7	6660.8
12.5°	7537.7	7647.3	7663.2	7470.9	7226.3	6959.4	6700.5	6505.1	6327.2	6270.0	6257.3
15°	7698.1	7801.4	7702.9	7393.1	7051.6	6692.6	6357.4	6092.1	5904.6	5834.7	5809.3
17.5°	7866.5	7965.0	7710.8	7264.4	6822.8	6376.4	5955.5	5683.8	5469.4	5388.4	5378.8
20°	8068.2	8112.7	7677.5	7080.2	6508.3	5966.6	5523.4	5267.6	5153.3	5096.1	5089.7
22.5°	8317.6	8270.0	7601.2	6830.8	6109.6	5493.2	5132.6	5013.5	4984.9	4972.2	4976.9
25°	8581.3	8435.2	7488.4	6505.1	5606.0	5019.8	4846.7	4880.0	4918.1	4913.4	4913.4
27.5°	8872.0	8603.6	7315.3	6073.0	5048.4	4632.2	4652.9	4775.2	4832.4	4830.8	4829.2
30°	9245.4	8794.2	7094.5	5553.6	4527.4	4359.0	4484.5	4633.8	4711.6	4708.5	4710.0
32.5°	9704.4	9003.9	6794.2	4973.7	4150.9	4157.2	4301.8	4449.5	4540.1	4532.1	4533.7
35°	10241.4	9239.0	6387.6	4401.9	3901.5	3996.8	4111.2	4214.4	4300.2	4289.1	4278.0
37.5°	10826.0	9469.3	5847.4	3890.4	3698.1	3847.5	3942.8	3960.3	4000.0	3971.4	3950.7
40°	11382.0	9645.7	5151.7	3471.0	3493.2	3720.4	3782.3	3712.4	3641.0	3631.4	3602.8
42.5°	11866.5	9704.4	4447.9	3135.8	3277.2	3586.9	3625.1	3478.9	3350.2	3289.9	3264.5
45°	12378.0	9725.1	3791.9	2854.6	3069.1	3467.8	3509.1	3313.7	3132.6	3002.4	2959.5
47.5°	13046.7	9874.4	3281.9	2646.5	2910.2	3388.4	3447.2	3181.9	2946.8	2760.9	2721.2
50°	13922.0	10169.9	2867.3	2487.7	2807.0	3336.0	3402.7	3053.2	2794.3	2570.3	2530.6
52.5°	14894.2	10441.5	2532.1	2359.0	2706.9	3243.8	3345.5	2961.1	2651.3	2393.9	2351.1
55°	15574.1	10233.4	2262.1	2225.6	2576.6	3112.0	3266.1	2883.2	2446.4	2222.4	2184.3
57.5°	15704.4	9521.8	2057.2	2087.4	2419.4	2946.8	3143.7	2710.1	2335.2	2147.7	2108.0
60°	15348.6	8530.5	1904.7	1960.3	2251.0	2738.7	2915.0	2587.7	2228.7	2068.3	2034.9
62.5°	14454.2	7515.4	1791.9	1845.9	2093.7	2527.4	2772.0	2459.1	2120.7	1977.7	1944.4
65°	12648.0	6309.7	1683.9	1744.2	1947.6	2344.7	2643.3	2339.9	2014.3	1904.7	1872.9
67.5°	9547.2	4725.9	1582.2	1636.2	1817.3	2185.8	2503.6	2222.4	1911.0	1841.1	1803.0
70°	5621.9	2959.5	1466.2	1523.4	1680.7	2020.6	2354.2	2093.7	1782.4	1750.6	1701.3
72.5°	2616.3	1780.8	1334.4	1390.0	1509.1	1799.8	2162.0	1925.3	1629.9	1560.0	1493.2
75°	1561.5	1302.6	1178.7	1227.9	1312.1	1564.7	1920.6	1753.8	1485.3	1393.2	1323.3
77.5°	1167.6	996.0	1007.1	1059.6	1127.9	1369.3	1701.3	1618.7	1374.1	1302.6	1255.0
80°	840.3	756.1	821.3	878.5	950.0	1245.4	1629.9	1496.4	1242.2	1146.9	1102.5
82.5°	560.8	543.3	617.9	676.7	746.6	1089.7	1531.4	1310.6	1061.2	940.4	841.9
85°	309.8	327.2	416.2	441.6	502.0	767.3	1255.0	1053.2	799.0	643.4	614.8
87.5°	128.7	150.9	224.0	216.0	266.9	457.5	826.0	635.4	508.3	379.7	295.5
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)