

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: P317699

Luminaire Tested: **GAN-SA5D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33158 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

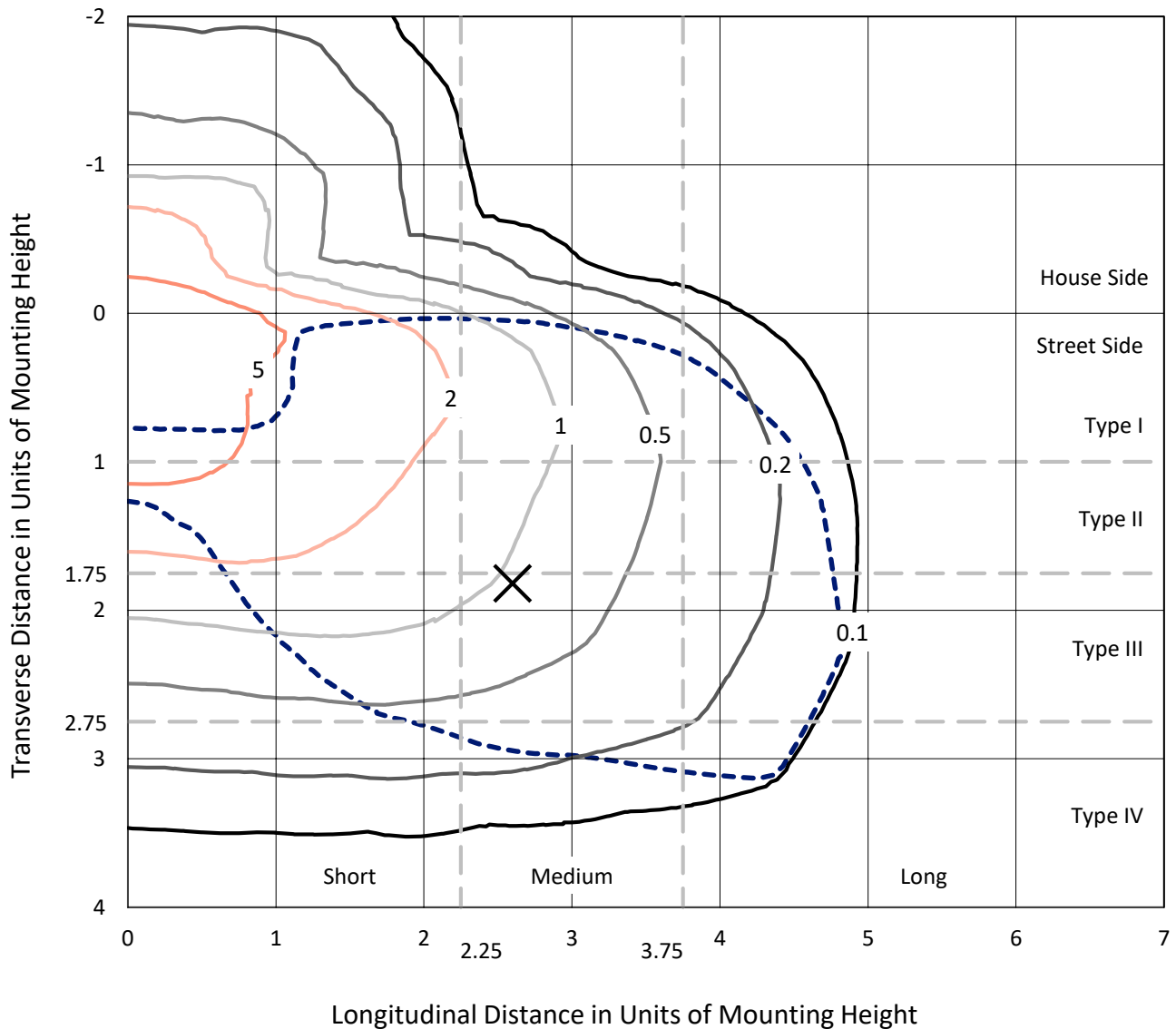


REPORT NUMBER: P317699

CATALOG NUMBER: GAN-SA5D-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

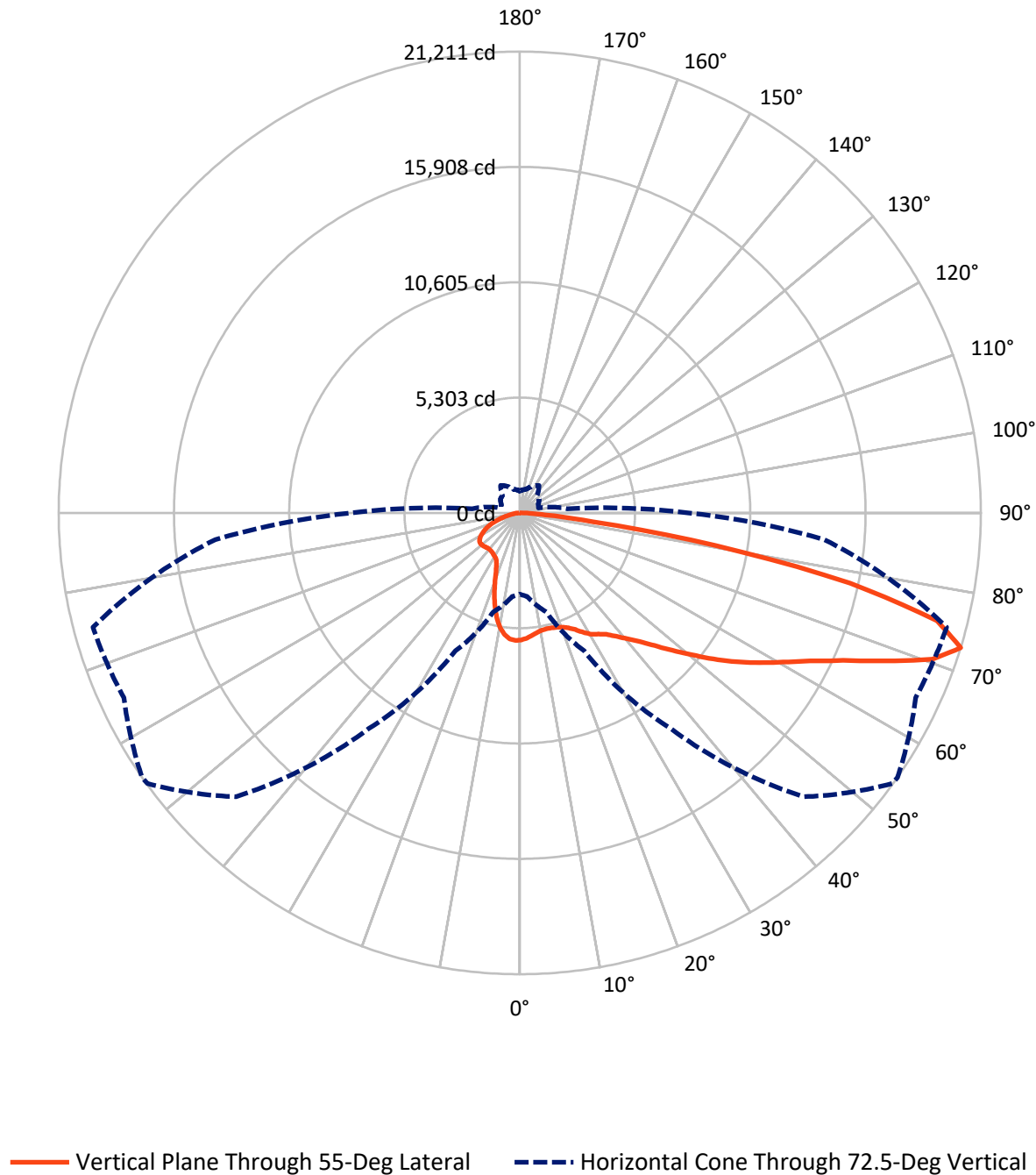
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317699
CATALOG NUMBER: GAN-SA5D-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317699

CATALOG NUMBER: GAN-SA5D-727-U-T3R

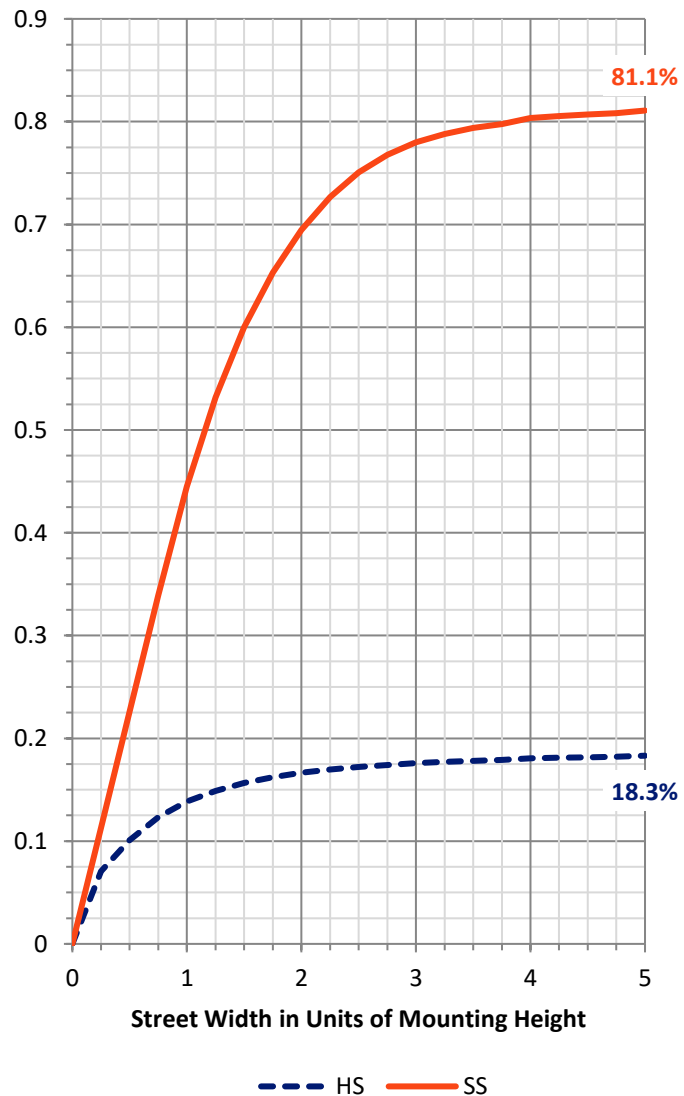
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6163.0	0.0	6163.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26995.0	0.0	26995.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	33158.0	0.0	33158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.2	1.6
10°-20°	1408.9	4.2
20°-30°	2323.0	7.0
30°-40°	3436.3	10.4
40°-50°	4796.4	14.5
50°-60°	6245.0	18.8
60°-70°	7674.9	23.1
70°-80°	6016.2	18.1
80°-90°	728.0	2.2
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°	33158.0	100.0
0°-180°	33158.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317699

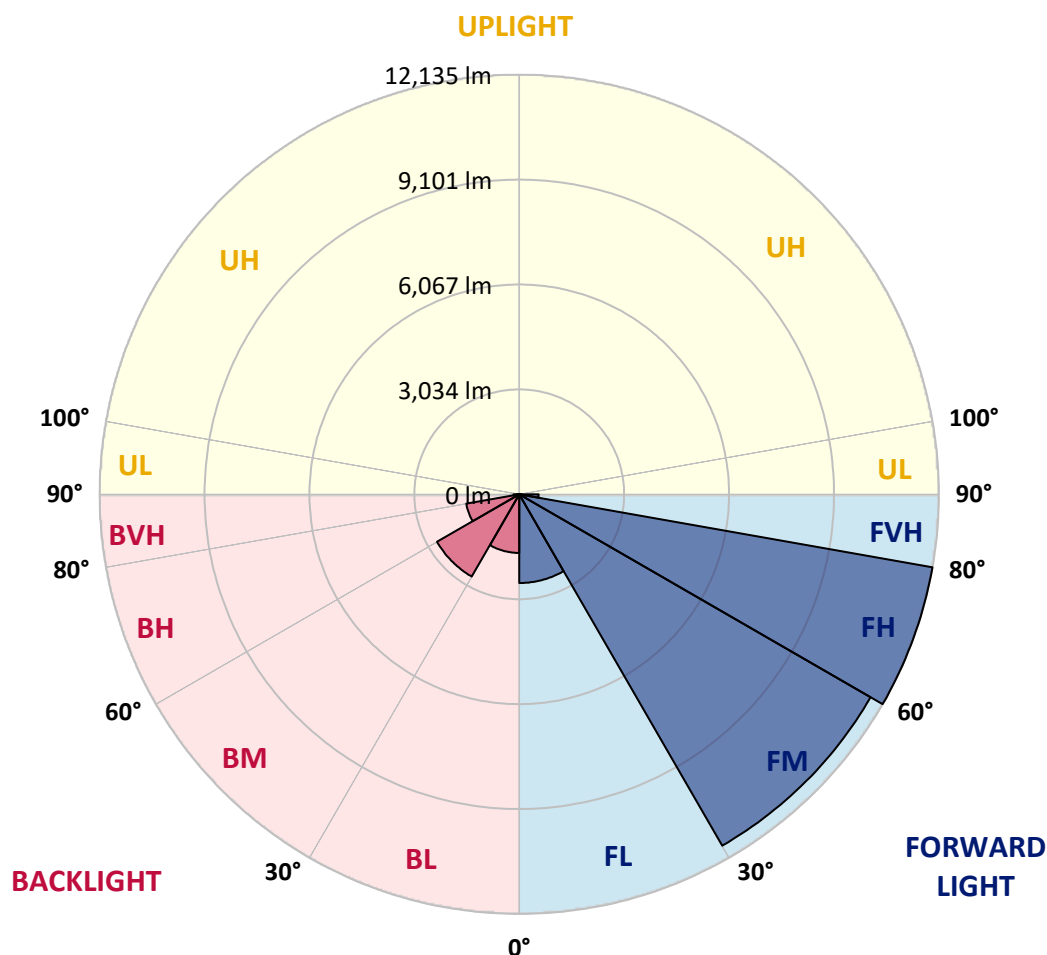
CATALOG NUMBER: GAN-SA5D-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2565.5	7.7			
FM	(30°-60°)	11732.0	35.4			
FH	(60°-80°)	12134.7	36.6			G5
FVH	(80°-90°)	562.9	1.7			G4/750
BL	(0°-30°)	1695.7	5.1	B3/2500		
BM	(30°-60°)	2745.7	8.3	B3/5000		
BH	(60°-80°)	1556.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	165.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P317699

CATALOG NUMBER: GAN-SA5D-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4
2.5°	5658.0	5644.5	5661.3	5684.8	5710.6	5745.3	5765.5	5774.4	5809.2	5822.6	5851.7
5°	5395.9	5389.2	5417.2	5457.5	5514.6	5595.2	5660.2	5672.5	5764.4	5829.3	5888.7
7.5°	5205.5	5205.5	5238.0	5286.1	5350.0	5458.6	5550.5	5567.3	5722.9	5862.9	5972.7
10°	5054.3	5059.9	5098.0	5155.1	5230.1	5345.5	5467.6	5486.6	5711.7	5941.3	6116.0
12.5°	4953.5	4967.0	5001.7	5053.2	5146.2	5286.1	5440.7	5466.5	5735.2	6053.3	6288.5
15°	5017.4	5039.8	5043.1	5064.4	5115.9	5268.2	5456.4	5483.3	5785.6	6167.5	6484.5
17.5°	5297.3	5305.2	5270.5	5225.7	5201.0	5298.5	5503.4	5531.4	5846.1	6280.7	6672.6
20°	5722.9	5718.4	5643.4	5522.5	5397.0	5412.7	5580.7	5609.8	5927.9	6380.3	6860.8
22.5°	6260.5	6244.8	6129.5	5906.6	5692.7	5603.1	5716.2	5740.8	6051.1	6522.6	7062.4
25°	6912.3	6877.6	6725.3	6426.2	6111.5	5880.8	5920.0	5943.6	6230.3	6681.6	7247.2
27.5°	7600.0	7565.2	7371.5	7009.7	6590.9	6231.4	6201.1	6221.3	6434.1	6799.2	7383.8
30°	8319.0	8282.0	8105.0	7699.6	7099.3	6594.2	6463.2	6471.0	6577.4	6863.0	7495.8
32.5°	9041.3	9006.6	8808.4	8338.0	7651.5	6984.0	6652.5	6642.4	6663.7	6929.1	7622.4
35°	9773.8	9787.2	9555.4	9034.6	8263.0	7417.4	6876.5	6855.2	6808.2	7064.6	7801.5
37.5°	10557.7	10548.8	10248.6	9704.3	8902.5	7887.8	7197.9	7194.5	7032.1	7321.1	8082.6
40°	11081.9	11087.5	10904.9	10389.7	9548.7	8408.6	7610.0	7602.2	7389.4	7705.2	8451.1
42.5°	11286.8	11323.8	11370.8	11043.8	10225.1	9012.2	8101.7	8090.5	7887.8	8256.2	8884.5
45°	11301.4	11375.3	11666.5	11625.0	10910.5	9703.2	8730.0	8698.6	8553.0	8988.7	9401.9
47.5°	11175.9	11252.1	11735.9	11971.1	11523.1	10432.3	9464.7	9440.0	9314.6	9904.8	9961.9
50°	10901.6	10974.4	11592.6	12140.2	12027.1	11133.4	10311.3	10246.4	10179.2	10963.2	10602.5
52.5°	10387.5	10527.5	11401.0	12180.5	12328.4	11756.1	11201.7	11159.1	11196.1	12079.7	11244.3
55°	9170.1	9326.9	10907.2	12146.9	12551.2	12279.1	12092.1	12089.8	12281.3	13251.2	11933.0
57.5°	8488.1	8598.9	9901.4	12089.8	12815.5	12798.7	12973.5	12994.7	13367.7	14526.8	12654.3
60°	8102.8	8219.3	9391.9	11878.1	13225.4	13470.7	13872.8	13915.3	14471.9	15939.1	13522.2
62.5°	7752.3	7879.9	9076.0	11447.0	13708.1	14431.6	14950.2	14988.2	15641.2	17390.5	14361.1
65°	7153.1	7297.6	8613.5	11163.6	14147.2	15684.8	16319.9	16345.6	16984.0	18911.4	15002.8
67.5°	6306.4	6438.6	7741.1	10537.6	14471.9	17206.8	18140.9	18155.4	18315.6	19985.4	15330.9
70°	5317.5	5367.9	6497.9	9245.2	14087.8	18630.3	20136.6	20140.0	19529.6	20673.1	15277.2
72.5°	3736.1	3854.9	4717.2	6998.5	12106.6	18456.7	21172.6	21210.7	20094.1	20325.9	14056.4
75°	2291.4	2416.8	2958.9	4241.2	7680.6	14515.6	19562.1	19826.4	19035.7	18123.0	11482.8
77.5°	1532.1	1579.1	1930.8	2472.8	3479.7	8351.4	15039.8	15537.0	15813.6	13216.5	7343.5
80°	854.5	944.1	1280.1	1536.6	1547.8	3318.4	9017.8	9134.3	8798.3	5262.6	2265.7
82.5°	452.5	501.7	854.5	902.7	844.4	1111.0	3361.0	3364.3	2811.1	1411.1	673.1
85°	350.5	392.0	585.7	551.0	431.2	492.8	1108.7	1169.2	956.4	577.9	219.5
87.5°	174.7	217.3	397.6	349.4	169.1	141.1	396.5	423.3	377.4	226.2	79.5
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: P317699

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4	5848.4
2.5°	5862.9	5873.0	5885.3	5871.9	5867.4	5849.5	5819.2	5812.5	5796.8	5798.0	5806.9
5°	5914.4	5931.2	5924.5	5873.0	5811.4	5725.2	5635.6	5559.4	5509.0	5505.7	5502.3
7.5°	6013.0	6024.2	5971.6	5824.8	5652.4	5453.0	5264.9	5100.2	5000.6	4975.9	4970.3
10°	6167.5	6165.3	6020.8	5725.2	5381.3	5025.2	4722.8	4494.3	4361.1	4321.9	4311.8
12.5°	6340.0	6314.3	6037.6	5543.7	4998.3	4504.4	4121.4	3867.2	3728.3	3683.5	3672.3
15°	6518.1	6454.2	5996.2	5272.7	4527.9	3943.3	3541.3	3306.1	3231.0	3206.4	3201.9
17.5°	6683.8	6560.6	5877.5	4905.4	3991.5	3384.5	3070.9	2976.8	2994.7	3027.2	3028.3
20°	6846.2	6632.3	5687.1	4441.7	3425.9	2924.2	2817.8	2887.2	2972.3	3038.4	3047.4
22.5°	7006.4	6682.7	5441.8	3906.4	2919.7	2665.5	2740.5	2867.1	2964.5	3036.2	3048.5
25°	7140.8	6695.0	5103.6	3335.2	2568.0	2568.0	2703.5	2823.4	2919.7	2990.3	3002.6
27.5°	7190.1	6612.2	4626.5	2806.6	2391.1	2523.2	2652.0	2751.7	2833.5	2908.5	2921.9
30°	7209.1	6458.7	4075.5	2382.1	2318.3	2475.1	2582.6	2667.7	2745.0	2815.5	2827.9
32.5°	7212.5	6273.9	3490.9	2141.3	2267.9	2424.7	2496.4	2571.4	2654.3	2682.3	2686.8
35°	7233.7	6055.5	2874.9	2018.1	2220.9	2377.6	2434.8	2488.5	2354.1	2364.2	2373.2
37.5°	7295.3	5839.4	2359.7	1948.7	2190.6	2353.0	2421.3	2226.5	2121.2	2096.5	2093.2
40°	7410.7	5608.7	1977.8	1892.7	2179.4	2365.3	2335.1	2078.6	1897.2	1761.7	1741.5
42.5°	7570.8	5360.1	1733.7	1855.8	2187.3	2424.7	2215.3	1936.4	1635.1	1547.8	1536.6
45°	7751.1	5099.1	1601.5	1830.0	2214.1	2470.6	2190.6	1747.1	1513.0	1447.0	1441.4
47.5°	7925.9	4779.9	1533.2	1818.8	2251.1	2433.6	2086.5	1688.9	1454.8	1420.1	1423.5
50°	8126.3	4492.1	1491.8	1806.5	2283.6	2410.1	1968.9	1658.6	1432.4	1475.0	1519.8
52.5°	8295.4	4194.2	1454.8	1781.8	2295.9	2368.7	1938.6	1664.2	1432.4	1514.2	1556.7
55°	8495.9	3969.1	1412.3	1730.3	2272.4	2251.1	1917.3	1697.8	1449.2	1397.7	1402.2
57.5°	8754.6	3895.2	1365.2	1649.7	2194.0	2079.7	1907.3	1730.3	1439.1	1406.7	1417.9
60°	9113.0	3973.6	1346.2	1544.4	2071.9	1945.3	1908.4	1713.5	1368.6	1312.6	1313.7
62.5°	9454.6	4060.9	1345.1	1478.3	1921.8	1825.5	1882.6	1658.6	1332.7	1300.3	1312.6
65°	9566.6	3972.4	1291.3	1404.4	1752.7	1682.2	1835.6	1600.4	1305.9	1256.6	1254.3
67.5°	9416.5	3698.1	1182.7	1284.6	1559.0	1515.3	1774.0	1531.0	1263.3	1223.0	1216.3
70°	8970.8	3085.5	1048.3	1126.7	1338.3	1327.1	1676.6	1450.3	1206.2	1171.5	1142.3
72.5°	7771.3	2198.5	883.6	937.4	1089.7	1125.5	1542.2	1345.1	1125.5	1050.5	1005.7
75°	6382.6	1627.3	725.7	736.9	827.6	925.1	1357.4	1221.9	1030.4	902.7	868.0
77.5°	3908.6	995.6	577.9	582.4	593.6	738.0	1117.7	1084.1	909.4	752.6	728.0
80°	1265.5	543.2	417.7	439.0	405.4	540.9	864.6	922.8	780.6	629.4	602.5
82.5°	481.6	316.9	282.2	296.8	281.1	362.9	630.5	739.2	639.5	517.4	421.1
85°	232.9	179.2	166.9	187.0	173.6	185.9	403.2	544.3	484.9	337.1	313.6
87.5°	82.9	79.5	63.8	86.2	73.9	66.1	123.2	274.4	320.3	231.8	207.2
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)