

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: P193568

Luminaire Tested: **GAN-AF-10-LED-U-RW-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-RW-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53910 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 640
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: 28.75 FT



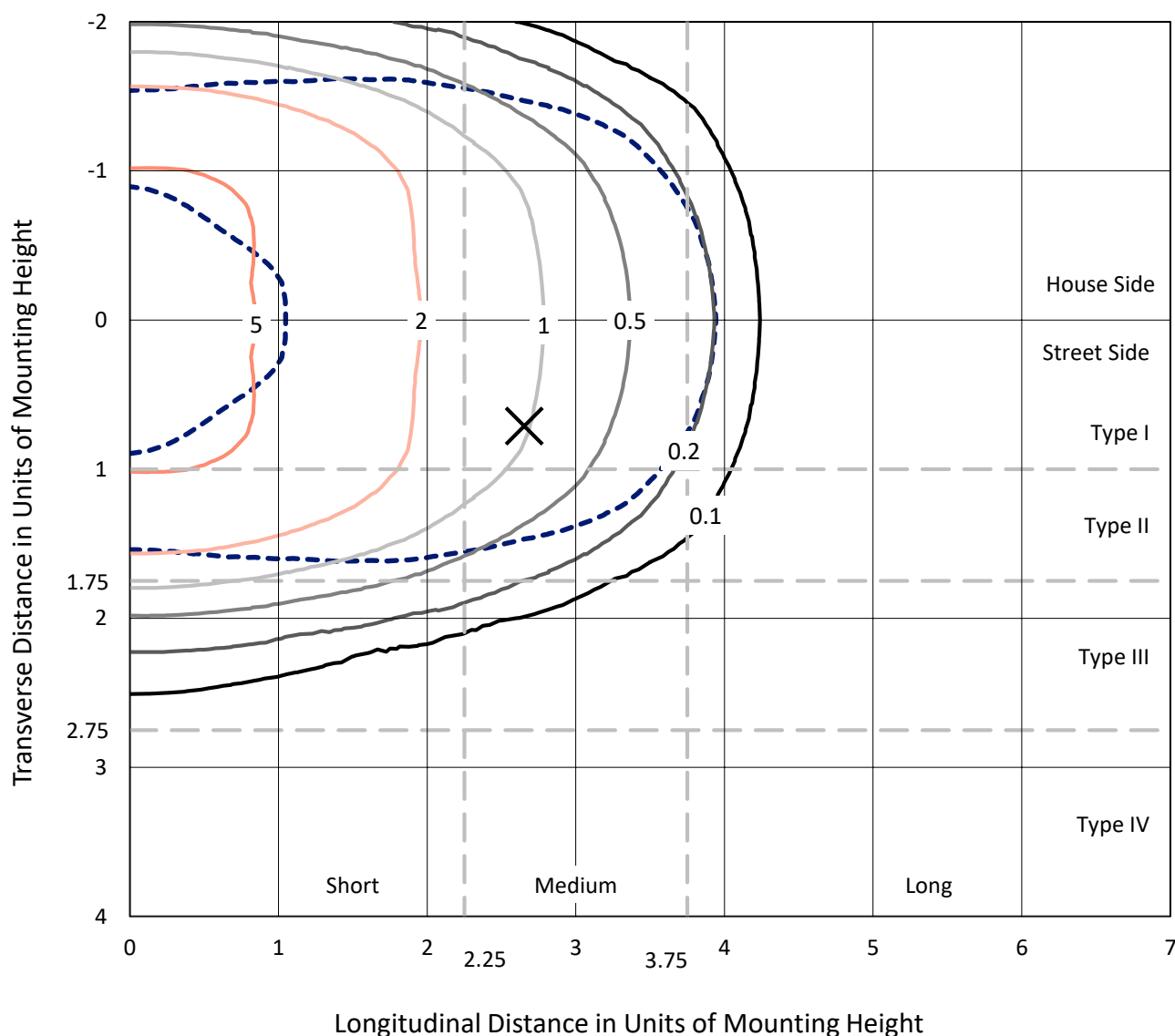
REPORT NUMBER: P193568

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

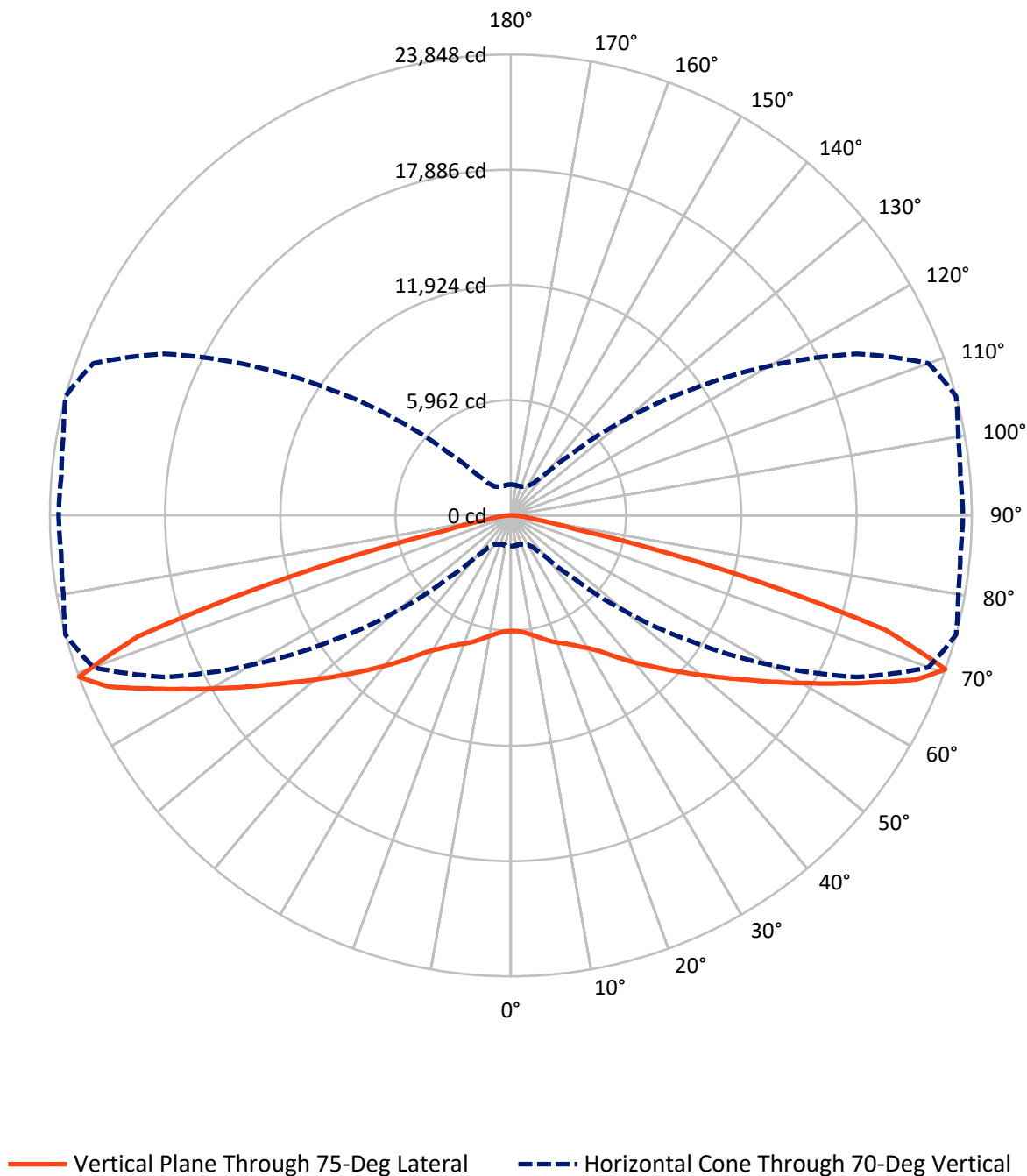


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P193568

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P193568

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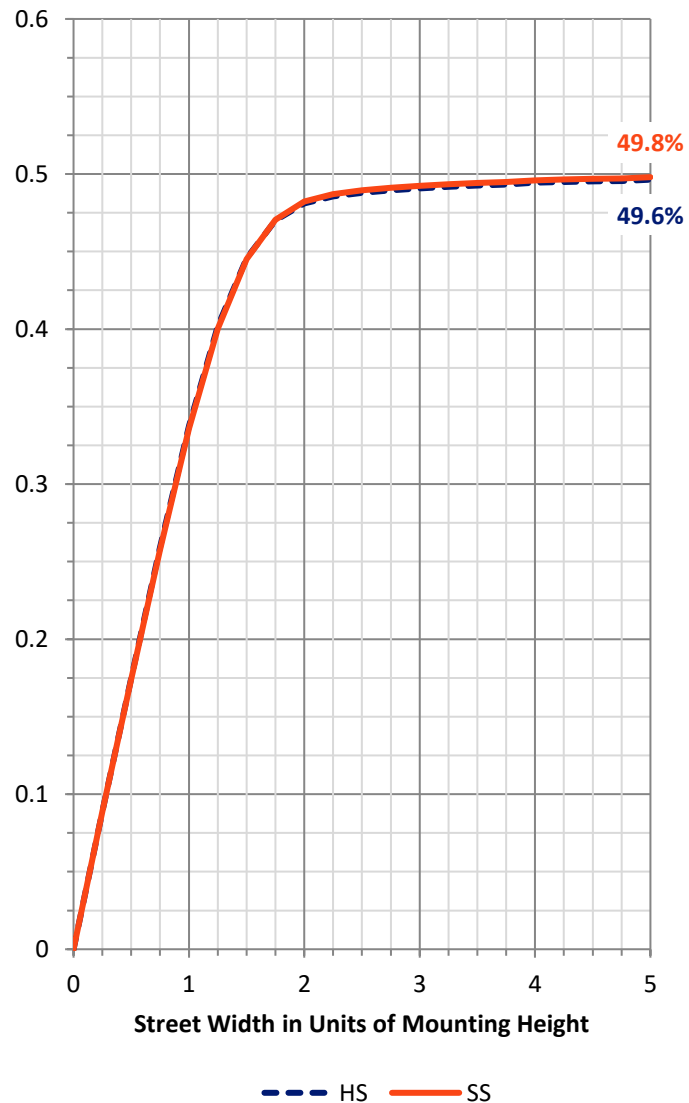
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26955.0	0.0	26955.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26955.0	0.0	26955.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53910.0	0.0	53910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.5	1.1
10°-20°	1782.0	3.3
20°-30°	3354.0	6.2
30°-40°	5939.3	11.0
40°-50°	9932.4	18.4
50°-60°	13840.8	25.7
60°-70°	12835.1	23.8
70°-80°	5115.2	9.5
80°-90°	537.7	1.0
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°	53910.0	100.0
0°-180°	53910.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193568

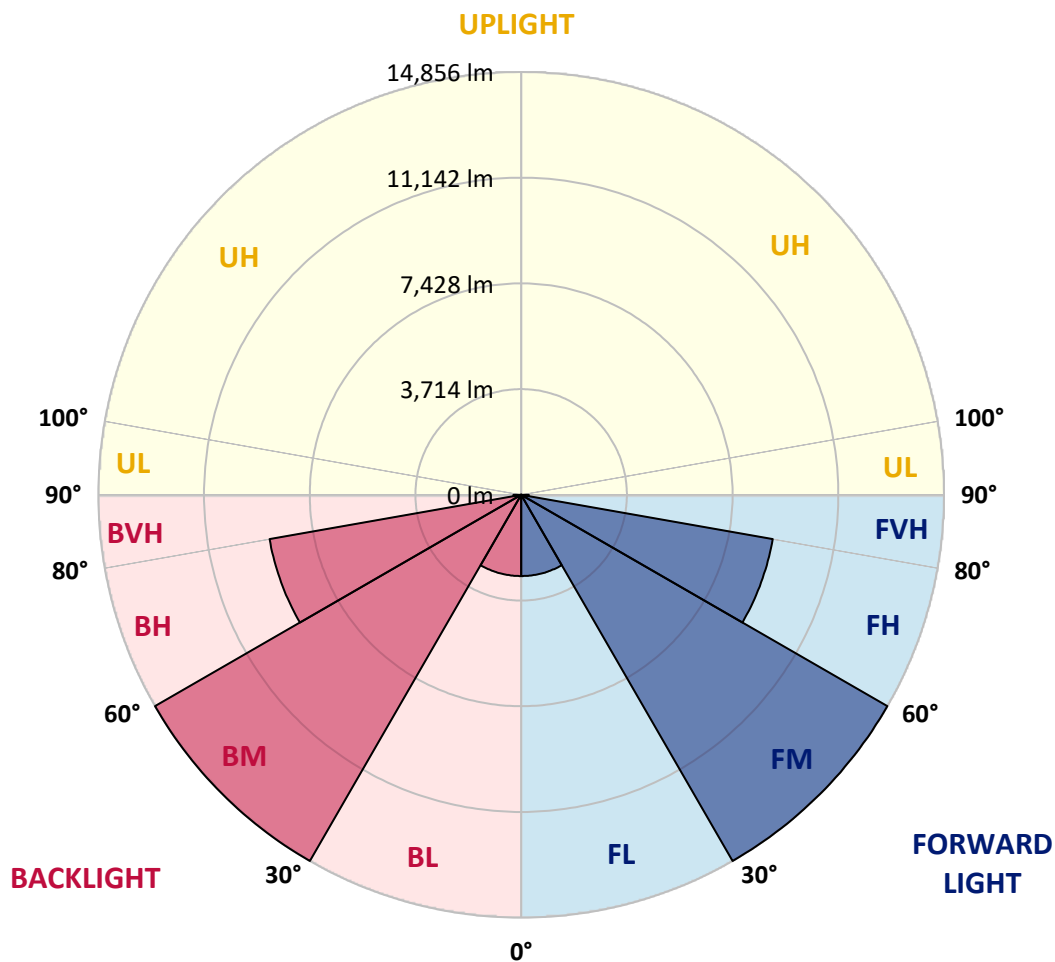
CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2854.8	5.3			
FM	(30°-60°)	14856.3	27.6			
FH	(60°-80°)	8975.2	16.6			G4/12000
FVH	(80°-90°)	268.8	0.5			G3/500
BL	(0°-30°)	2854.8	5.3	B4/5000		
BM	(30°-60°)	14856.3	27.6	B5		
BH	(60°-80°)	8975.2	16.6	B5		G4/12000
BVH	(80°-90°)	268.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium





REPORT NUMBER: P193568

CATALOG NUMBER: GAN-AF-10-LED-U-RW-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9
2.5°	5969.7	5964.6	5969.7	5967.1	5972.2	5972.2	5977.3	5987.5	5987.5	5995.2	5992.6
5°	5911.1	5908.5	5916.2	5923.8	5931.5	5946.8	5962.0	5985.0	6002.8	6015.5	6028.3
7.5°	5796.4	5796.4	5806.6	5824.5	5842.3	5875.4	5911.1	5956.9	6002.8	6041.0	6074.1
10°	5702.2	5707.3	5720.0	5750.6	5781.1	5832.1	5880.5	5946.8	6010.4	6074.1	6125.1
12.5°	5646.1	5653.7	5676.7	5722.5	5773.5	5842.3	5916.2	6000.3	6071.6	6148.0	6199.0
15°	5663.9	5669.0	5702.2	5758.2	5824.5	5911.1	6010.4	6109.8	6193.9	6275.4	6344.2
17.5°	5763.3	5770.9	5809.2	5872.9	5941.7	6043.6	6150.6	6262.7	6367.2	6458.9	6543.0
20°	5941.7	5949.3	5997.7	6066.5	6148.0	6252.5	6359.5	6476.7	6593.9	6690.7	6785.0
22.5°	6193.9	6206.6	6252.5	6321.3	6413.0	6525.1	6652.5	6777.4	6889.5	6978.6	7062.7
25°	6525.1	6553.1	6596.5	6672.9	6769.7	6871.6	7009.2	7136.6	7243.6	7327.7	7388.9
27.5°	6993.9	7032.1	7065.3	7139.2	7233.4	7330.3	7467.8	7579.9	7681.9	7763.4	7809.3
30°	7615.6	7653.8	7687.0	7758.3	7844.9	7936.6	8066.6	8166.0	8229.7	8293.4	8290.8
32.5°	8369.8	8410.6	8423.3	8499.7	8588.9	8688.3	8805.5	8861.5	8912.5	8920.1	8874.3
35°	9213.1	9233.5	9284.5	9386.4	9488.3	9569.8	9681.9	9710.0	9710.0	9671.8	9569.8
37.5°	10138.0	10150.8	10222.1	10336.8	10441.2	10525.3	10601.7	10657.8	10629.8	10548.2	10377.5
40°	11152.1	11175.0	11276.9	11378.8	11496.0	11575.0	11656.6	11666.7	11638.7	11519.0	11287.1
42.5°	12120.3	12140.7	12242.6	12403.1	12556.0	12665.5	12741.9	12757.2	12668.1	12558.5	12270.6
45°	12953.4	13006.9	13139.4	13328.0	13549.6	13705.0	13809.5	13852.8	13773.8	13631.2	13297.4
47.5°	13613.3	13666.8	13855.4	14079.6	14354.8	14607.0	14780.3	14872.0	14851.6	14744.6	14380.2
50°	14097.4	14148.4	14352.2	14627.4	14948.4	15261.8	15557.4	15776.5	15852.9	15804.5	15470.7
52.5°	14153.5	14237.6	14477.1	14846.5	15264.4	15692.4	16112.8	16484.8	16737.0	16775.2	16528.1
55°	13371.3	13455.4	13786.6	14334.4	14956.1	15654.2	16326.8	16953.6	17450.4	17705.2	17575.3
57.5°	11526.6	11676.9	12026.0	12668.1	13582.8	14627.4	15700.0	16813.5	17825.0	18500.2	18630.1
60°	8833.5	9011.9	9363.5	10046.3	11065.4	12311.4	13743.3	15389.2	17175.3	18693.8	19600.8
62.5°	5666.5	5834.6	6204.1	6797.7	7628.4	8978.7	10515.1	12469.3	14869.4	17267.0	19427.6
65°	2912.2	3004.0	3197.6	3556.8	4204.0	5213.0	6591.4	8540.5	11284.6	14242.7	17366.4
67.5°	1844.7	1862.5	1905.8	1956.8	2122.4	2471.4	3113.5	4328.8	6586.3	9671.8	13328.0
70°	1595.0	1595.0	1574.6	1566.9	1587.3	1635.7	1735.1	2017.9	2779.7	4591.3	7687.0
72.5°	1459.9	1444.6	1409.0	1381.0	1375.9	1375.9	1396.2	1439.6	1561.9	1870.1	3009.0
75°	1345.3	1302.0	1253.6	1220.4	1207.7	1195.0	1192.4	1200.1	1225.5	1273.9	1437.0
77.5°	1205.1	1149.1	1093.0	1059.9	1044.6	1026.8	1011.5	993.7	980.9	996.2	1067.6
80°	1037.0	973.3	930.0	909.6	894.3	868.8	835.7	805.1	777.1	772.0	815.3
82.5°	835.7	761.8	764.4	772.0	744.0	708.3	672.6	639.5	591.1	565.6	591.1
85°	675.2	637.0	619.1	667.5	626.8	573.3	517.2	458.6	382.2	321.0	349.1
87.5°	262.4	262.4	392.4	603.8	542.7	443.3	379.6	323.6	201.3	155.4	158.0
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: P193568

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9	5979.9
2.5°	5990.1	5995.2	5992.6	5990.1	5990.1	5987.5	5990.1	5990.1
5°	6035.9	6048.7	6048.7	6053.8	6053.8	6056.3	6058.9	6056.3
7.5°	6104.7	6127.7	6142.9	6160.8	6163.3	6165.9	6171.0	6165.9
10°	6173.5	6219.4	6252.5	6285.6	6300.9	6306.0	6311.1	6311.1
12.5°	6260.1	6323.8	6382.4	6441.0	6469.1	6484.4	6484.4	6494.5
15°	6402.8	6466.5	6535.3	6614.3	6662.7	6688.2	6695.8	6695.8
17.5°	6604.1	6660.2	6718.8	6795.2	6856.3	6889.5	6897.1	6894.6
20°	6838.5	6892.0	6925.1	6973.5	7027.1	7065.3	7075.5	7075.5
22.5°	7106.0	7136.6	7141.7	7157.0	7200.3	7251.3	7274.2	7279.3
25°	7401.6	7409.2	7388.9	7388.9	7416.9	7465.3	7488.2	7490.8
27.5°	7783.8	7745.6	7694.6	7676.8	7694.6	7750.7	7778.7	7788.9
30°	8260.2	8168.5	8051.3	7987.6	7977.4	8051.3	8102.3	8109.9
32.5°	8805.5	8673.0	8517.6	8387.6	8354.5	8400.4	8461.5	8459.0
35°	9452.6	9294.7	9106.1	8940.5	8864.1	8909.9	8996.6	9006.8
37.5°	10199.2	9992.8	9776.2	9567.3	9447.5	9460.3	9552.0	9582.6
40°	11032.3	10764.8	10492.2	10211.9	10041.2	10008.1	10120.2	10138.0
42.5°	11924.1	11580.1	11236.2	10889.6	10670.5	10619.6	10749.5	10741.9
45°	12874.4	12436.2	12033.6	11651.5	11391.6	11315.1	11422.1	11422.1
47.5°	13896.1	13356.0	12877.0	12443.8	12161.0	12051.5	12153.4	12161.0
50°	14979.0	14405.7	13842.6	13361.1	13022.2	12882.1	13014.6	13035.0
52.5°	16056.7	15498.8	14930.6	14380.2	13970.0	13799.3	13952.2	14018.4
55°	17149.8	16602.0	16059.3	15521.7	15035.0	14833.8	14996.8	15080.9
57.5°	18304.0	17796.9	17279.7	16737.0	16268.2	15954.8	16128.1	16240.2
60°	19656.9	19223.8	18686.2	18087.4	17613.5	17295.0	17394.4	17493.7
62.5°	20727.0	20895.2	20439.1	19746.1	19137.1	18729.5	18826.3	18930.8
65°	20209.8	21934.7	22339.8	21639.1	20795.8	20161.4	20120.6	20174.1
67.5°	16892.4	20242.9	22686.3	23353.9	22648.1	21766.5	21603.5	21682.5
70°	11299.8	15473.3	19784.3	22994.6	23848.2	23506.7	23346.2	23394.6
72.5°	5427.0	9011.9	13422.2	17689.9	20288.8	21481.2	21863.4	22049.4
75°	1984.8	3577.2	6469.1	9748.2	11768.7	13623.5	14833.8	15328.0
77.5°	1197.5	1444.6	2066.3	3111.0	3523.7	3944.1	3781.1	3862.6
80°	886.7	1001.3	1133.8	1273.9	1319.8	1319.8	1268.8	1228.1
82.5°	621.7	695.6	759.3	835.7	856.1	817.9	672.6	535.1
85°	400.0	433.1	461.2	509.6	496.8	473.9	318.5	282.8
87.5°	183.4	208.9	219.1	242.0	231.9	221.7	158.0	132.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)