

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: P193121

Luminaire Tested: **GAN-AF-03-LED-U-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18919.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 191
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

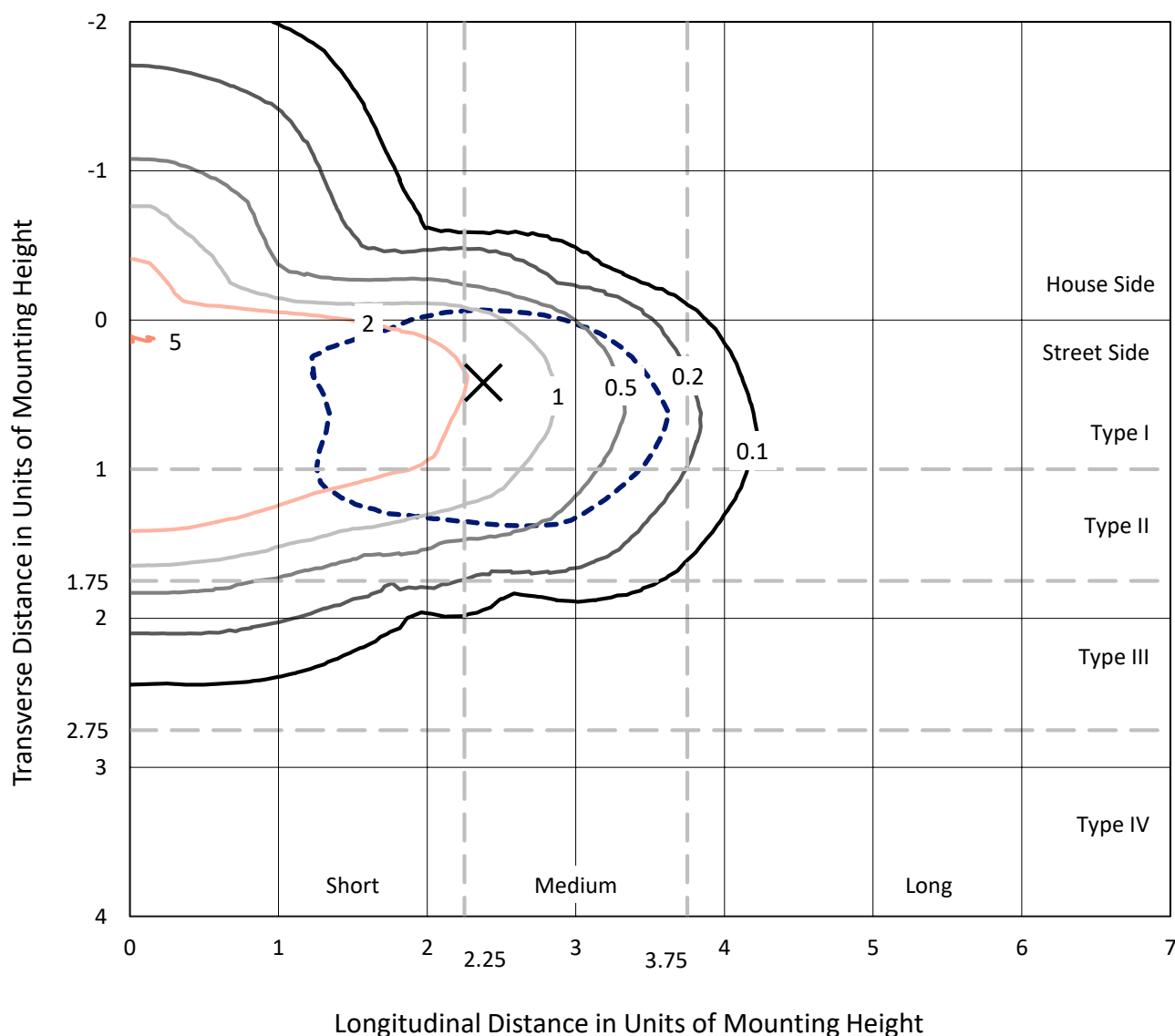


REPORT NUMBER: P193121

CATALOG NUMBER: GAN-AF-03-LED-U-T2-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

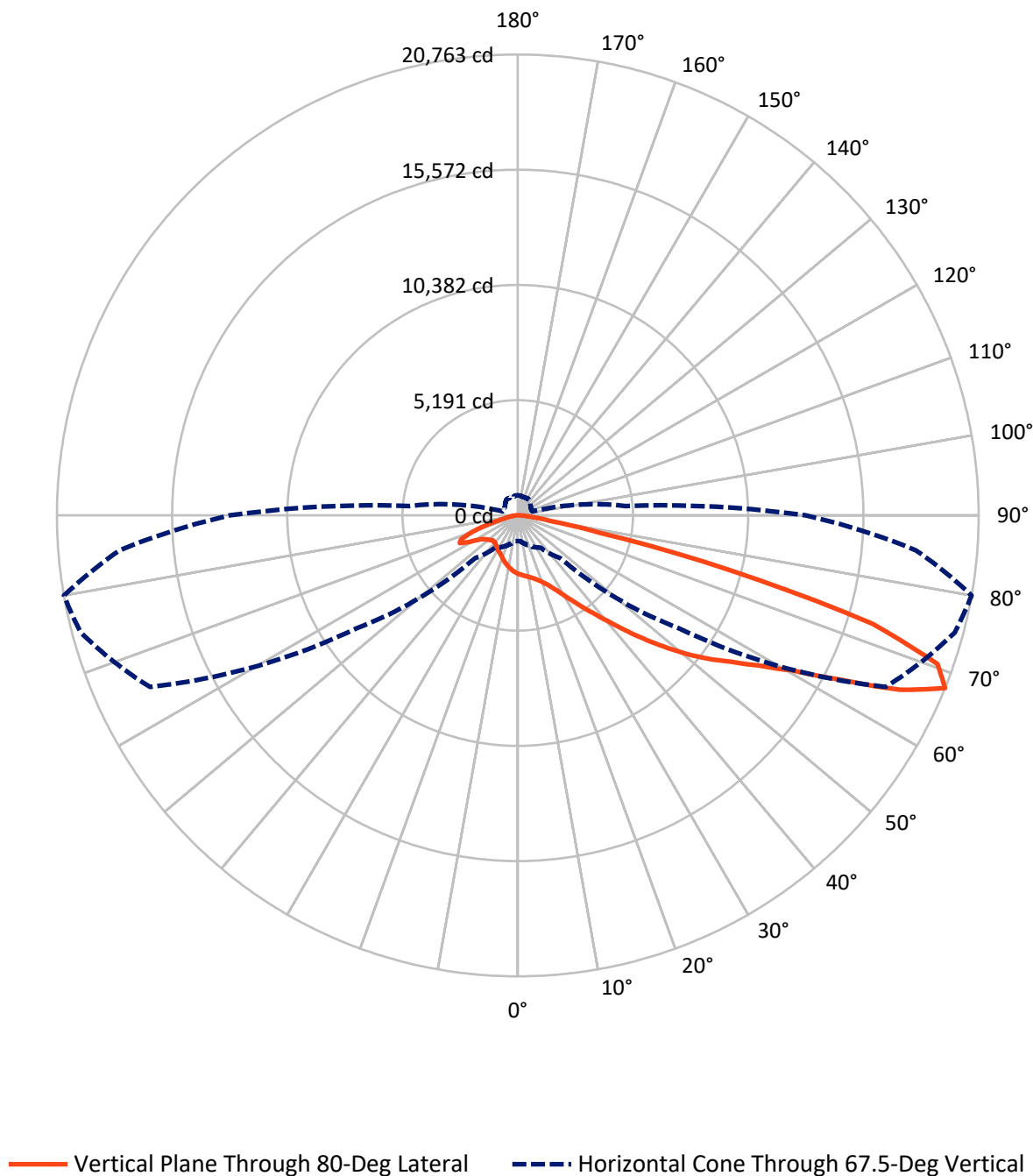


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193121

CATALOG NUMBER: GAN-AF-03-LED-U-T2-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P193121

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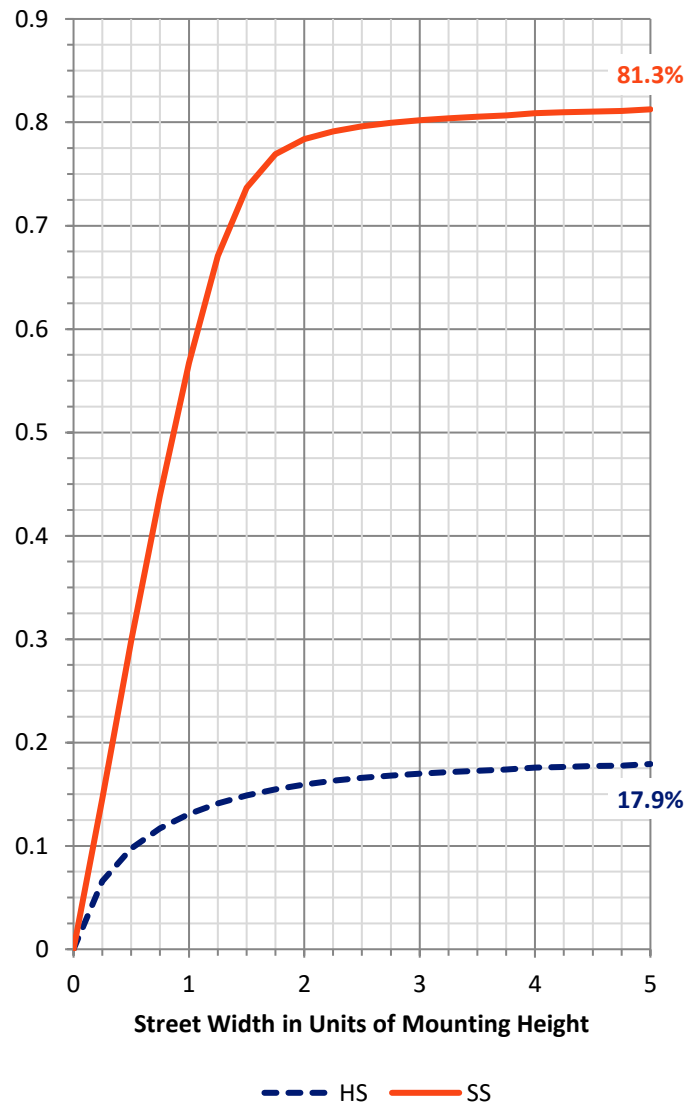
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3484.2	0.0	3484.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15435.1	0.0	15435.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	18919.3	0.0	18919.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	1.3
10°-20°	698.5	3.7
20°-30°	1156.1	6.1
30°-40°	1891.1	10.0
40°-50°	3053.4	16.1
50°-60°	4408.2	23.3
60°-70°	4864.7	25.7
70°-80°	2242.3	11.9
80°-90°	362.7	1.9
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°	18919.3	100.0
0°-180°	18919.3	100.0

Coefficient of Utilization



REPORT NUMBER: P193121

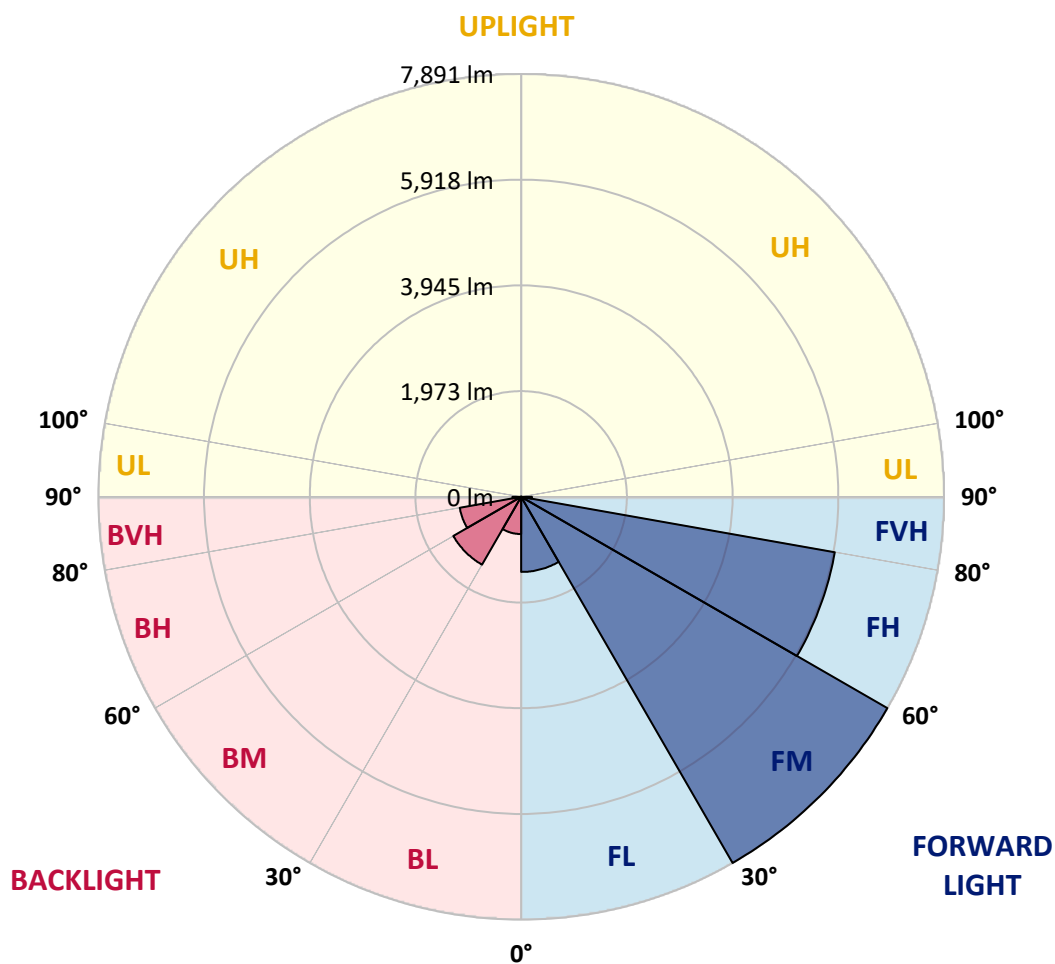
CATALOG NUMBER: GAN-AF-03-LED-U-T2-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1401.9	7.4			
FM	(30°-60°)	7890.8	41.7			
FH	(60°-80°)	5943.1	31.4			G3/7500
FVH	(80°-90°)	199.4	1.1			G2/225
BL	(0°-30°)	695.1	3.7	B2/1000		
BM	(30°-60°)	1461.9	7.7	B2/2500		
BH	(60°-80°)	1163.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	163.3	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P193121

CATALOG NUMBER: GAN-AF-03-LED-U-T2-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4
2.5°	2875.2	2858.5	2861.3	2856.7	2842.7	2818.5	2792.3	2744.9	2695.5	2669.4	2649.0
5°	3115.5	3110.9	3104.4	3089.6	3054.2	3003.7	2941.4	2857.5	2767.2	2719.7	2674.1
7.5°	3295.4	3292.5	3284.2	3274.8	3240.4	3179.9	3085.8	2966.5	2835.2	2770.0	2699.2
10°	3310.2	3314.9	3321.4	3346.6	3351.2	3318.6	3222.7	3078.3	2906.0	2822.1	2731.8
12.5°	3183.6	3193.8	3219.0	3283.2	3351.2	3391.3	3341.9	3195.8	2988.9	2887.4	2772.8
15°	3015.9	3021.4	3052.2	3140.7	3262.7	3386.6	3433.2	3325.2	3096.0	2971.2	2834.3
17.5°	2944.2	2946.9	2968.5	3027.1	3140.7	3317.6	3484.4	3465.8	3227.3	3075.5	2909.7
20°	2907.8	2914.4	2945.1	3002.9	3074.5	3229.1	3491.8	3617.6	3383.9	3205.8	3004.7
22.5°	3011.3	3008.5	3019.6	3048.6	3109.1	3202.2	3486.3	3774.1	3583.1	3373.6	3128.6
25°	3252.5	3262.7	3243.2	3210.6	3230.1	3295.4	3516.1	3943.6	3832.9	3588.7	3290.7
27.5°	3596.2	3585.9	3557.1	3480.7	3440.7	3468.6	3614.9	4126.1	4142.9	3871.9	3504.9
30°	3938.9	3930.6	3902.6	3809.5	3727.5	3704.2	3806.7	4335.7	4512.7	4211.8	3767.6
32.5°	4294.8	4285.4	4259.4	4166.2	4067.5	4013.4	4079.6	4577.9	4948.6	4618.0	4076.8
35°	4733.4	4715.7	4660.8	4531.3	4434.5	4392.6	4423.3	4882.5	5451.6	5098.6	4452.2
37.5°	5146.0	5173.1	5117.1	4938.3	4812.7	4797.7	4832.2	5254.1	5993.6	5636.0	4883.4
40°	5560.5	5565.2	5514.9	5368.7	5239.2	5215.0	5301.6	5704.9	6633.5	6278.7	5407.8
42.5°	5988.9	5998.4	5913.5	5778.5	5683.4	5688.1	5786.9	6233.0	7367.5	7035.9	6011.3
45°	6496.5	6510.5	6417.5	6240.5	6153.8	6328.0	6287.0	6825.4	8172.3	7896.5	6704.2
47.5°	7027.5	7049.0	6978.2	6812.4	6704.2	6943.7	6787.1	7482.1	9038.5	8819.5	7465.2
50°	7317.2	7347.9	7416.8	7404.7	7381.4	7341.3	7345.2	8186.1	9931.6	9780.8	8247.7
52.5°	7161.6	7160.8	7412.1	7717.6	8043.6	8067.9	8025.1	8928.5	10766.2	10720.5	8984.4
55°	6450.0	6498.4	6879.4	7470.8	8361.3	8917.3	9044.1	9778.9	11585.9	11639.0	9732.4
57.5°	5265.3	5305.3	5819.4	6643.7	7932.9	9422.2	10493.3	11014.9	12502.3	12750.1	10728.0
60°	3571.0	3619.4	4164.3	5154.5	6779.7	9140.8	11872.7	13220.5	13599.5	14163.1	12125.1
62.5°	2098.5	2142.2	2586.5	3251.5	4773.5	7834.1	12478.2	16358.4	15342.1	16295.0	14256.1
65°	1444.6	1474.5	1690.5	2023.9	2743.1	5276.4	11727.5	18524.9	18023.7	18936.6	16727.3
67.5°	1162.4	1158.7	1330.0	1557.3	1765.9	2720.7	8868.0	18279.9	20382.1	20763.1	18009.8
70°	957.4	953.8	1070.2	1258.3	1411.1	1532.2	4830.4	15426.1	19901.5	20056.0	16828.7
72.5°	801.0	804.7	879.2	1019.0	1157.7	1154.0	2122.7	10851.8	15656.1	16725.4	13415.2
75°	676.2	678.1	727.4	826.1	939.8	929.6	1151.3	5879.0	9100.9	9845.1	7436.4
77.5°	575.6	577.4	609.1	664.1	745.1	741.5	840.1	2540.0	3796.4	3749.9	2543.7
80°	513.2	513.2	528.2	538.3	583.1	566.3	623.1	1220.1	1604.8	1481.9	1015.2
82.5°	402.4	404.3	495.5	491.7	459.2	437.8	437.8	719.0	850.4	786.1	594.3
85°	226.3	225.4	319.5	385.5	404.3	308.3	305.5	402.4	462.9	408.0	287.8
87.5°	96.9	98.8	148.0	171.4	229.1	191.9	189.1	207.7	235.7	204.0	133.2
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: P193121

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4	2628.4
2.5°	2629.4	2605.2	2552.1	2485.9	2426.3	2387.2	2351.8	2300.6	2303.4	2268.0	2241.9
5°	2627.4	2577.2	2454.3	2308.0	2167.3	2065.9	1989.5	1920.6	1903.9	1871.2	1851.6
7.5°	2629.4	2547.4	2340.7	2106.8	1932.7	1804.2	1739.0	1702.6	1694.3	1683.0	1684.0
10°	2635.9	2520.4	2215.8	1918.7	1736.1	1651.4	1635.6	1646.7	1659.7	1663.5	1664.4
12.5°	2650.8	2496.1	2078.8	1751.1	1613.2	1587.1	1614.1	1652.3	1677.4	1689.5	1688.6
15°	2684.3	2477.6	1947.5	1619.8	1545.3	1559.2	1609.5	1663.5	1699.8	1716.6	1717.5
17.5°	2720.7	2450.5	1812.5	1519.1	1494.8	1530.2	1592.7	1656.1	1700.7	1719.4	1723.1
20°	2768.2	2417.1	1670.9	1443.7	1447.4	1487.4	1546.1	1609.5	1658.9	1674.7	1682.1
22.5°	2830.6	2380.6	1547.1	1382.2	1393.4	1424.0	1469.7	1524.7	1567.6	1575.0	1581.5
25°	2914.4	2341.5	1448.3	1326.3	1331.0	1348.7	1379.4	1412.0	1441.7	1433.5	1439.9
27.5°	3027.1	2308.0	1374.8	1275.0	1266.8	1270.4	1286.3	1296.6	1312.3	1289.0	1291.9
30°	3159.3	2271.7	1318.0	1230.4	1207.1	1200.5	1204.4	1209.9	1222.1	1190.4	1185.7
32.5°	3313.1	2227.9	1264.9	1191.3	1158.7	1145.6	1147.5	1162.4	1209.0	1189.4	1179.1
35°	3491.8	2178.5	1209.0	1148.5	1126.0	1107.5	1105.6	1152.1	1290.9	1278.9	1269.5
37.5°	3701.4	2129.3	1153.1	1100.0	1101.9	1081.3	1074.9	1128.0	1306.7	1259.3	1252.7
40°	3967.9	2103.1	1105.6	1048.8	1072.1	1069.2	1056.2	1083.2	1202.5	1115.9	1104.6
42.5°	4297.5	2106.8	1070.2	993.8	1036.7	1066.5	1045.9	1046.9	1089.8	1024.6	1014.3
45°	4704.6	2150.7	1045.1	950.0	996.7	1063.6	1042.3	1027.4	1031.1	996.7	991.0
47.5°	5179.6	2241.0	1027.4	913.7	958.4	1053.5	1041.4	1021.8	1013.4	994.7	990.1
50°	5707.7	2372.3	1014.3	879.2	924.0	1036.7	1042.3	1016.2	1006.9	999.4	996.7
52.5°	6226.4	2522.2	994.7	849.5	896.9	1016.2	1045.1	1010.5	1000.4	994.7	992.0
55°	6804.8	2709.5	965.0	824.3	874.6	990.1	1045.1	1002.2	991.0	992.0	991.0
57.5°	7586.3	3012.2	929.6	802.8	847.7	958.4	1027.4	992.8	979.0	979.8	980.8
60°	8807.4	3545.9	886.7	781.4	814.1	921.2	1003.1	972.4	958.4	962.1	963.1
62.5°	10603.2	4329.2	830.8	749.7	778.7	881.0	969.5	946.3	932.3	941.7	941.7
65°	12469.8	5020.4	761.9	709.7	741.5	837.4	927.7	913.7	899.7	921.2	920.2
67.5°	12971.8	4865.8	692.9	665.9	704.1	788.9	877.4	869.9	862.5	899.7	897.9
70°	11523.5	3906.3	629.7	621.2	663.2	736.7	823.4	823.4	818.7	846.6	840.1
72.5°	8779.5	2770.0	569.1	573.7	616.6	679.9	764.7	771.3	763.7	777.7	772.1
75°	4699.9	1585.3	508.6	521.6	558.9	622.2	699.5	706.1	701.3	700.5	703.2
77.5°	1562.0	774.9	445.2	465.7	498.3	562.5	631.5	641.8	630.5	628.7	627.8
80°	695.8	487.1	375.3	402.4	431.2	494.6	559.7	568.1	556.0	572.8	551.4
82.5°	447.1	320.4	300.9	330.6	358.6	426.5	488.1	489.9	478.8	556.0	474.0
85°	217.0	198.5	226.3	253.4	277.5	335.3	404.3	405.2	377.3	343.7	331.6
87.5°	108.0	115.5	150.9	175.2	187.2	230.1	294.4	288.8	276.7	251.6	231.9
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)