

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: P192722

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26135.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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

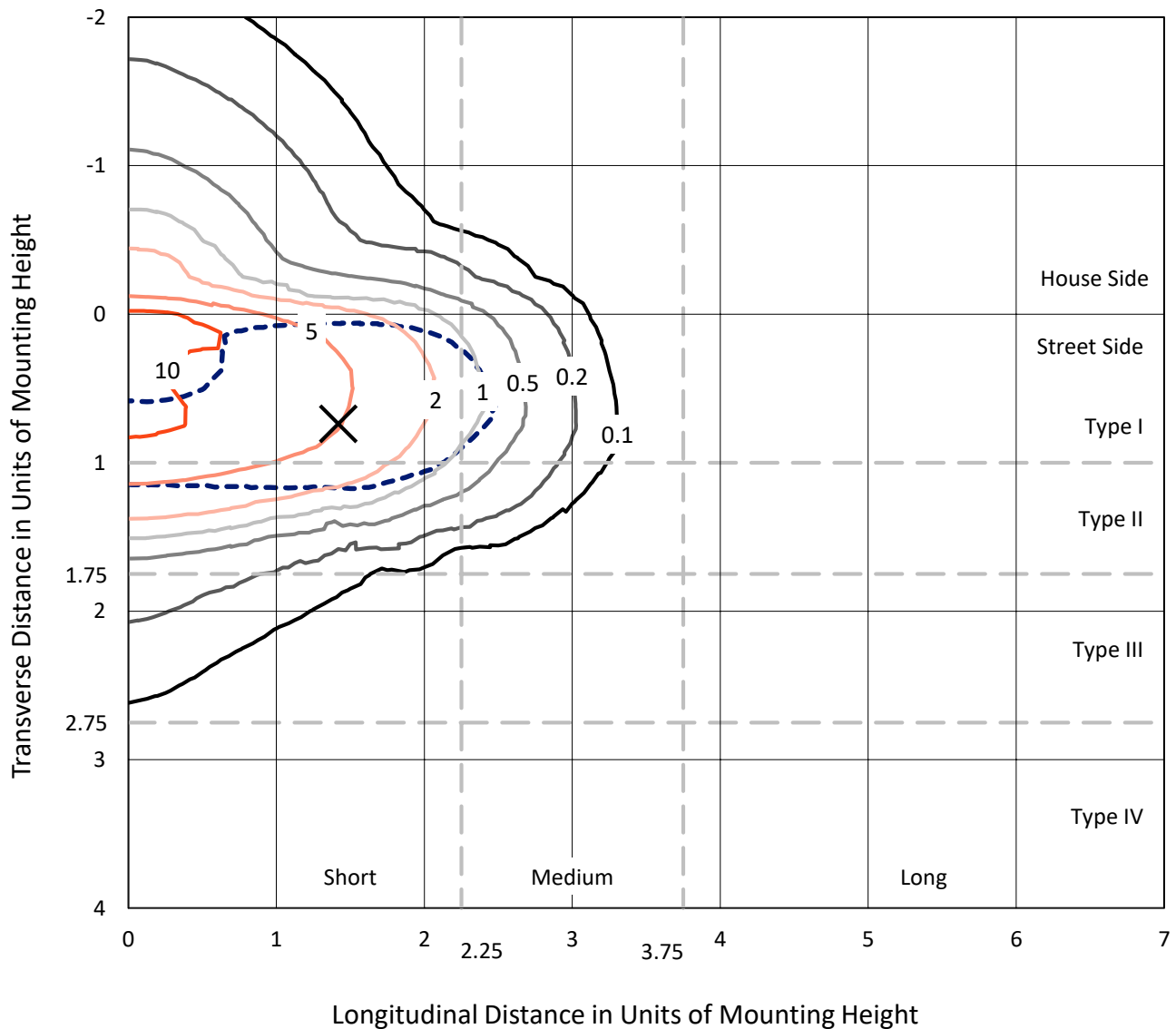


REPORT NUMBER: P192722

CATALOG NUMBER: GAN-AF-04-LED-U-AFL-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

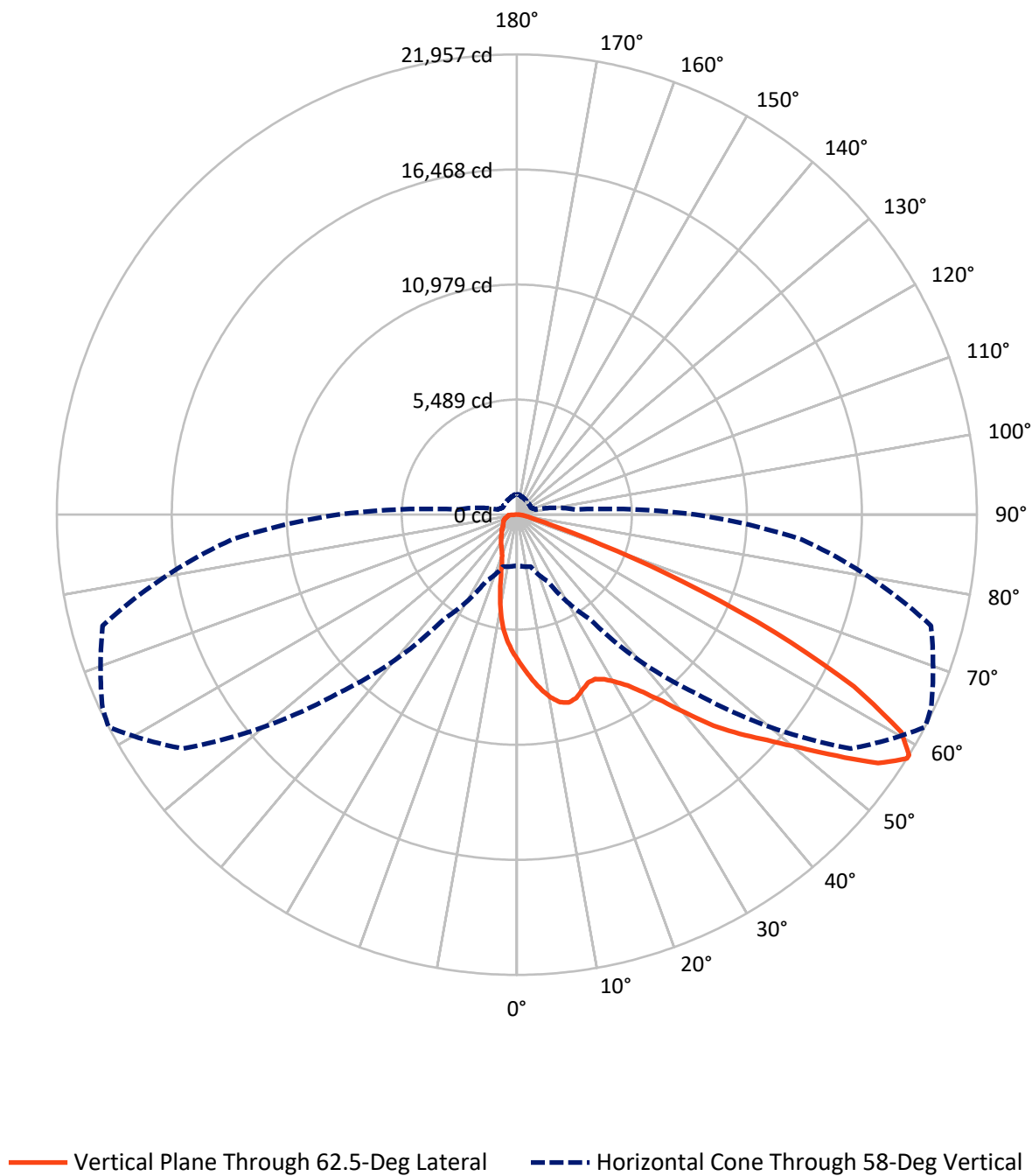


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P192722

CATALOG NUMBER: GAN-AF-04-LED-U-AFL-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P192722

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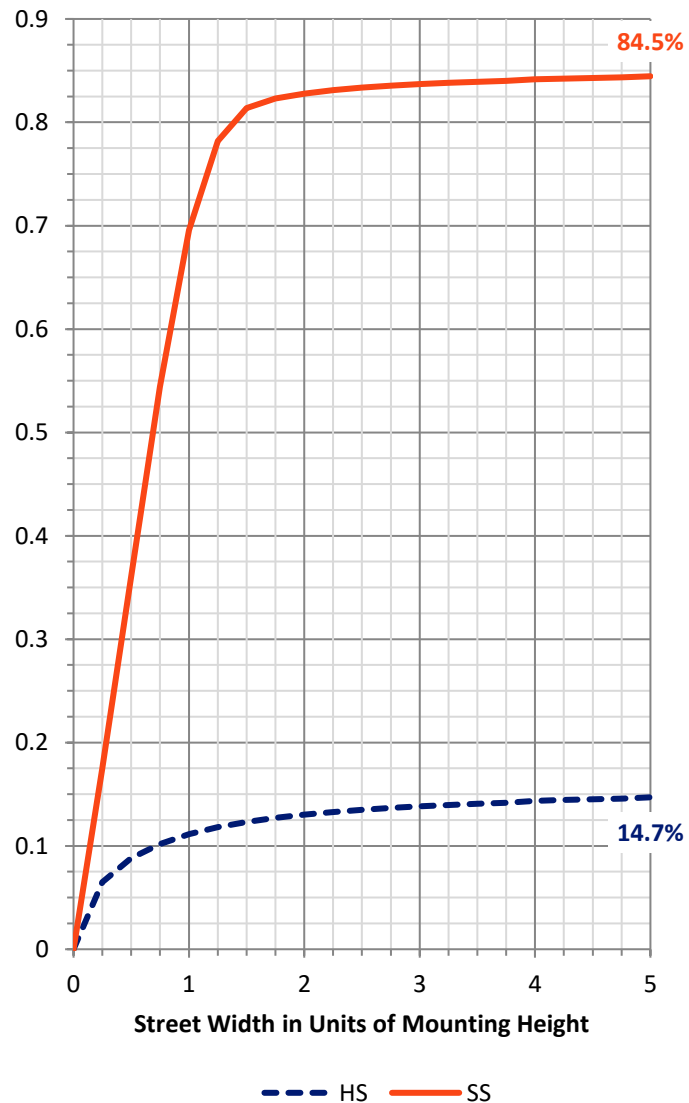
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.8	0.0	3985.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	22150.1	0.0	22150.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	26135.9	0.0	26135.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.9	2.4
10°-20°	1587.1	6.1
20°-30°	2565.6	9.8
30°-40°	4072.9	15.6
40°-50°	5959.5	22.8
50°-60°	6233.2	23.8
60°-70°	3682.6	14.1
70°-80°	1037.4	4.0
80°-90°	376.6	1.4
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°	26135.9	100.0
0°-180°	26135.9	100.0

Coefficient of Utilization



REPORT NUMBER: P192722

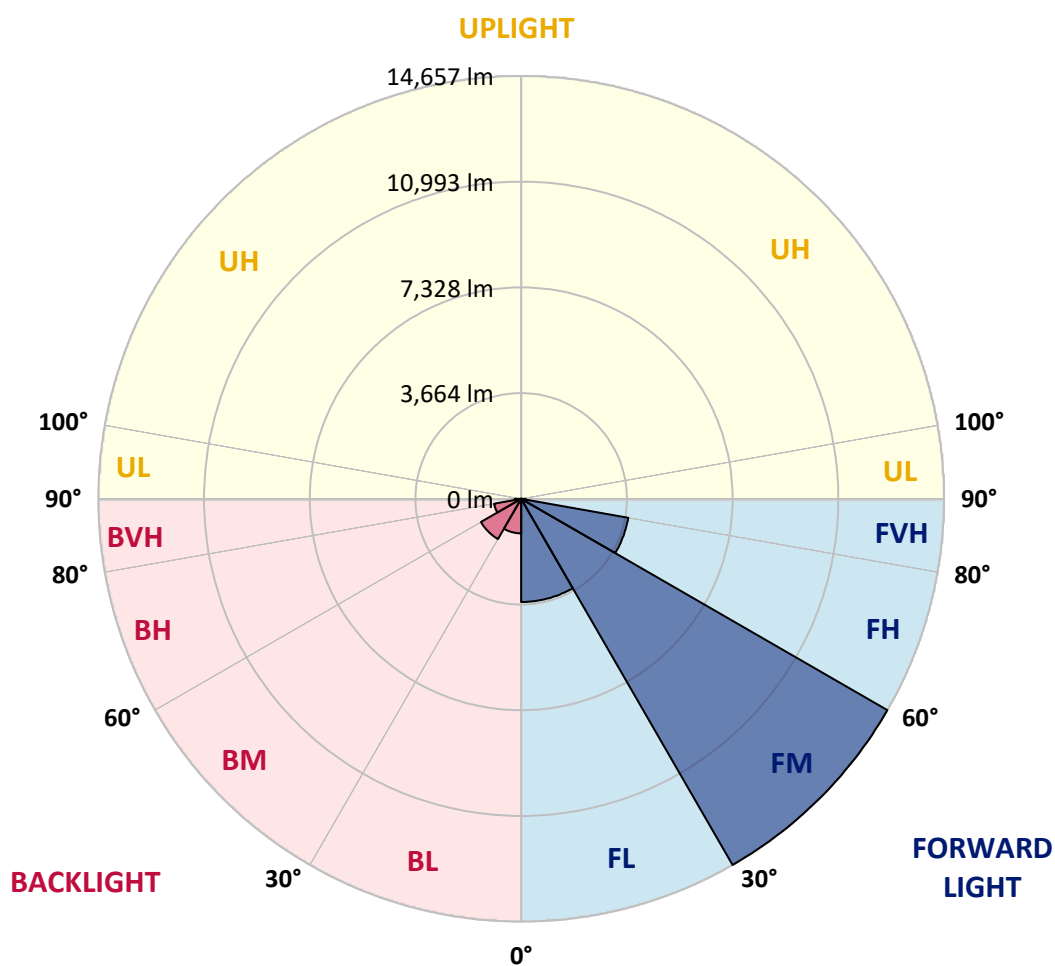
CATALOG NUMBER: GAN-AF-04-LED-U-AFL-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3575.7	13.7			
FM	(30°-60°)	14656.9	56.1			
FH	(60°-80°)	3768.9	14.4			G2/5000
FVH	(80°-90°)	148.6	0.6			G2/225
BL	(0°-30°)	1197.9	4.6	B3/2500		
BM	(30°-60°)	1608.8	6.2	B2/2500		
BH	(60°-80°)	951.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	228.0	0.9			G3/500
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 Short





REPORT NUMBER: P192722

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5
2.5°	7933.2	7869.2	7828.5	7792.9	7746.2	7646.4	7512.3	7427.3	7384.3	7237.9	7064.2
5°	8711.0	8654.4	8612.6	8564.5	8480.8	8324.6	8107.9	7935.6	7850.8	7557.8	7210.8
7.5°	8528.9	8552.3	8624.8	8751.6	8860.0	8839.0	8645.8	8426.7	8314.7	7907.3	7380.6
10°	7431.0	7471.7	7597.3	7893.8	8373.8	8866.1	9016.2	8864.9	8751.6	8253.2	7555.4
12.5°	7210.8	7209.6	7219.5	7298.2	7583.6	8276.6	9028.5	9181.2	9113.5	8583.0	7733.8
15°	7300.6	7303.1	7295.7	7328.9	7417.5	7692.0	8651.9	9303.0	9351.0	8915.3	7918.4
17.5°	7536.9	7530.8	7502.4	7502.4	7534.4	7641.5	8208.8	9189.8	9411.3	9209.5	8081.0
20°	7933.2	7904.9	7829.8	7760.9	7726.5	7784.2	8026.7	8928.8	9306.7	9466.7	8214.9
22.5°	8413.2	8391.0	8269.2	8121.5	8002.1	8000.8	8120.2	8701.2	9125.8	9709.1	8328.3
25°	9033.4	8997.7	8816.9	8580.5	8371.3	8291.3	8324.6	8690.1	9027.3	9972.5	8429.2
27.5°	9762.1	9696.9	9482.7	9141.7	8834.0	8672.9	8624.8	8890.7	9117.1	10298.7	8569.5
30°	10645.6	10570.7	10296.1	9851.9	9417.5	9152.8	9050.7	9246.4	9415.0	10696.2	8794.8
32.5°	11651.2	11542.9	11225.4	10735.5	10164.5	9760.7	9594.7	9716.5	9850.7	11174.9	9076.5
35°	13040.6	12911.5	12452.4	11776.7	11131.9	10576.8	10310.9	10399.6	10530.0	11888.7	9483.9
37.5°	13988.4	13930.4	13625.2	12990.2	12288.7	11650.0	11239.0	11290.7	11364.4	12781.0	10005.8
40°	13979.7	14003.1	14009.2	14015.4	13537.9	12926.3	12484.4	12430.2	12415.4	13760.6	10598.9
42.5°	13279.5	13375.4	13685.6	14314.5	14604.9	14324.3	13919.4	13763.1	13685.6	14915.1	11227.8
45°	12207.4	12259.2	12840.0	14068.3	15151.3	15708.9	15402.4	14910.2	14769.7	15975.9	11749.6
47.5°	11654.9	11711.5	12077.0	13416.1	15145.2	16827.6	17004.8	16067.0	15816.0	16899.0	12200.1
50°	10339.2	10457.4	10917.7	12281.3	14592.5	17342.0	18679.8	17445.4	16926.0	17797.4	12651.7
52.5°	7923.4	8105.5	8621.2	10415.5	13190.9	17087.3	20020.0	19116.8	18383.2	18727.8	13039.4
55°	4997.9	5133.3	5566.5	7356.0	10552.1	15761.7	20528.4	20924.7	20272.4	19609.0	13375.4
57.5°	2717.4	2777.7	2940.1	4061.3	6863.6	12831.4	19787.5	21953.6	21682.7	20357.3	13629.0
58°	2431.9	2472.5	2573.4	3519.9	6087.2	12030.2	19458.8	21957.2	21821.8	20466.8	13648.6
60°	1804.2	1783.3	1693.5	2008.5	3388.1	8311.1	17472.5	21078.6	21476.0	20601.0	13552.6
62.5°	1585.2	1534.6	1351.3	1330.4	1647.9	3828.8	13369.3	18055.8	18994.8	19835.5	12969.3
65°	1489.2	1435.0	1198.7	1122.4	1188.8	1619.7	7875.4	13541.6	14719.4	17514.4	11477.6
67.5°	1417.7	1347.6	1101.5	996.9	1001.8	1070.7	3156.8	8528.9	9854.3	13298.0	8927.6
70°	1349.0	1272.6	1019.1	898.4	870.1	846.8	1255.3	4269.3	5471.8	8399.7	5692.1
72.5°	1275.0	1200.0	946.4	820.9	765.5	688.0	819.7	1746.4	2439.3	3974.0	2582.1
75°	1168.0	1100.2	873.8	751.9	673.2	569.8	619.1	912.0	1094.1	1582.7	1244.3
77.5°	1036.3	980.9	792.5	695.3	596.9	462.7	476.3	632.6	701.6	905.8	739.6
80°	744.6	764.3	705.2	625.2	531.6	375.5	365.5	461.5	498.4	582.2	481.2
82.5°	523.1	534.2	583.3	510.8	439.3	295.3	269.6	324.9	347.1	382.7	259.7
85°	360.5	348.3	400.0	355.6	317.5	196.8	184.6	220.2	233.9	237.5	134.2
87.5°	216.6	216.6	231.4	190.7	171.1	102.1	99.7	125.5	134.2	128.0	73.9
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: P192722

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5	6942.5
2.5°	6960.9	6873.5	6687.8	6538.8	6350.4	6154.8	6045.4	5928.4	5848.3	5790.5	5882.8
5°	7013.9	6835.4	6451.4	6087.2	5684.6	5266.2	4948.7	4653.4	4447.8	4319.8	4440.4
7.5°	7097.6	6823.1	6211.4	5588.7	4866.3	4169.7	3546.9	3156.8	2929.1	2817.1	2887.2
10°	7193.5	6803.3	5929.6	4913.1	3879.2	3001.7	2536.5	2379.0	2327.3	2306.4	2316.2
12.5°	7273.5	6761.5	5583.8	4095.8	2913.1	2370.4	2236.2	2232.5	2243.6	2246.1	2249.7
15°	7330.1	6700.0	5070.5	3244.1	2329.7	2159.9	2152.5	2174.7	2195.6	2204.2	2209.1
17.5°	7368.3	6573.2	4490.9	2564.9	2087.3	2057.8	2075.0	2103.2	2125.4	2131.6	2136.6
20°	7364.6	6387.4	3800.5	2139.0	1955.6	1955.6	1985.1	2007.3	2008.5	2001.2	2004.8
22.5°	7326.5	6132.6	3131.0	1912.6	1838.8	1859.6	1889.2	1868.3	1782.1	1725.4	1729.1
25°	7262.5	5828.7	2557.4	1768.6	1730.3	1767.3	1758.7	1601.2	1478.1	1422.7	1422.7
27.5°	7205.8	5469.3	2116.8	1643.0	1622.1	1667.7	1515.0	1372.3	1320.5	1294.7	1286.1
30°	7165.2	5081.6	1822.7	1522.4	1519.9	1486.7	1314.4	1275.0	1266.5	1245.4	1238.1
32.5°	7175.0	4689.1	1634.4	1416.5	1425.2	1272.6	1218.5	1227.0	1219.7	1197.5	1187.6
35°	7256.4	4316.1	1511.3	1320.5	1294.7	1149.5	1161.8	1177.9	1175.3	1144.6	1134.7
37.5°	7401.6	3963.0	1430.1	1240.5	1129.8	1088.0	1107.7	1132.3	1126.1	1105.1	1097.8
40°	7554.1	3630.5	1363.7	1177.9	1032.6	1046.1	1063.3	1076.9	1083.0	1089.2	1084.3
42.5°	7703.1	3283.6	1282.3	1113.8	992.0	1006.8	1014.2	1027.7	1060.9	1084.3	1083.0
45°	7791.8	2957.4	1198.7	1022.7	960.0	968.6	963.6	990.8	1031.3	1069.5	1070.7
47.5°	7890.1	2703.8	1132.3	939.1	929.1	935.4	920.6	947.6	984.5	1031.3	1036.3
50°	8009.5	2552.6	1079.4	872.6	887.3	887.3	883.7	908.3	960.0	1014.2	1024.0
52.5°	8144.8	2523.1	1035.0	824.6	845.4	844.2	848.0	884.9	941.5	994.4	1003.0
55°	8309.8	2603.0	987.0	788.9	804.9	809.8	822.0	863.9	912.0	972.3	975.9
57.5°	8501.8	2765.5	948.9	760.6	768.0	783.9	803.7	841.9	893.5	960.0	963.6
58°	8533.8	2799.9	942.7	758.1	760.6	779.0	801.2	838.1	889.8	962.5	966.1
60°	8535.0	2914.4	929.1	747.0	732.2	763.0	787.6	824.6	883.7	971.0	979.6
62.5°	8232.2	2913.1	919.3	731.1	702.7	740.9	769.1	812.3	877.5	992.0	1009.2
65°	7249.0	2647.3	872.6	706.5	679.4	721.2	753.3	803.7	894.8	1083.0	1094.1
67.5°	5669.9	2169.8	785.2	672.0	648.6	701.6	743.4	802.4	913.2	1103.9	1111.3
70°	3748.8	1623.3	689.2	632.6	616.6	678.2	748.3	844.2	892.3	1059.6	1039.9
72.5°	1945.8	1139.7	611.7	583.3	579.6	657.2	819.7	839.3	871.4	996.9	972.3
75°	1021.5	791.4	544.0	529.3	535.4	652.3	967.4	817.1	844.2	953.9	1000.6
77.5°	625.2	638.7	486.1	479.9	492.3	637.5	966.1	788.9	804.9	877.5	929.1
80°	418.5	518.1	441.9	443.0	451.7	583.3	867.6	744.6	756.8	829.5	882.4
82.5°	264.6	306.5	401.2	422.2	411.1	481.2	737.2	678.2	695.3	948.9	1003.0
85°	134.2	192.0	348.3	406.1	370.5	337.2	598.0	594.5	603.0	684.3	715.0
87.5°	61.5	105.9	271.9	354.4	279.3	210.5	434.5	440.7	475.1	486.1	486.1
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)