

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: P192935

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21774.3 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 226
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

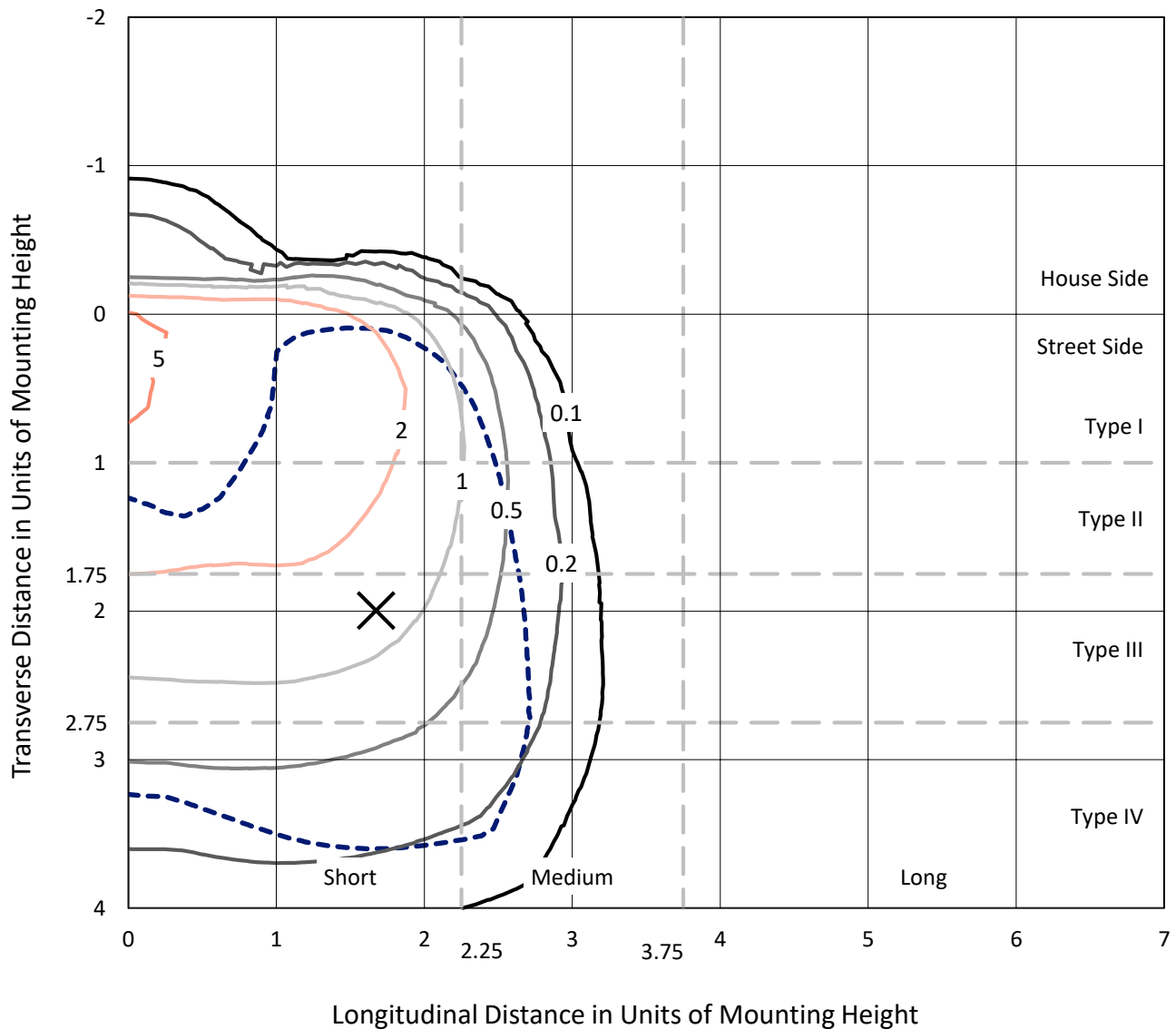


REPORT NUMBER: P192935

CATALOG NUMBER: GAN-AF-07-LED-U-SL4-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

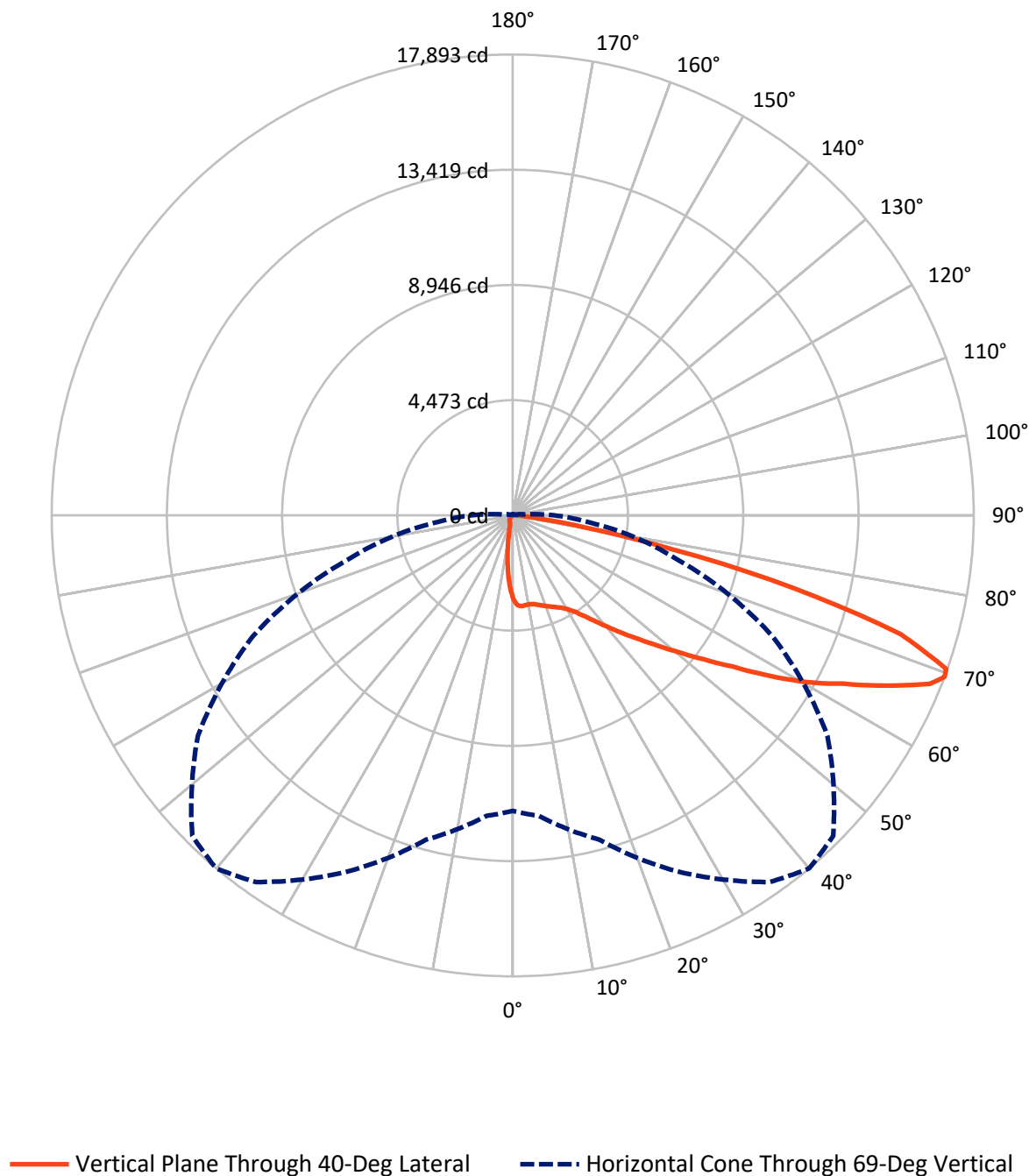


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192935

CATALOG NUMBER: GAN-AF-07-LED-U-SL4-7030-600-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P192935

CATALOG NUMBER: GAN-AF-07-LED-U-SL4-7030-600-HSS

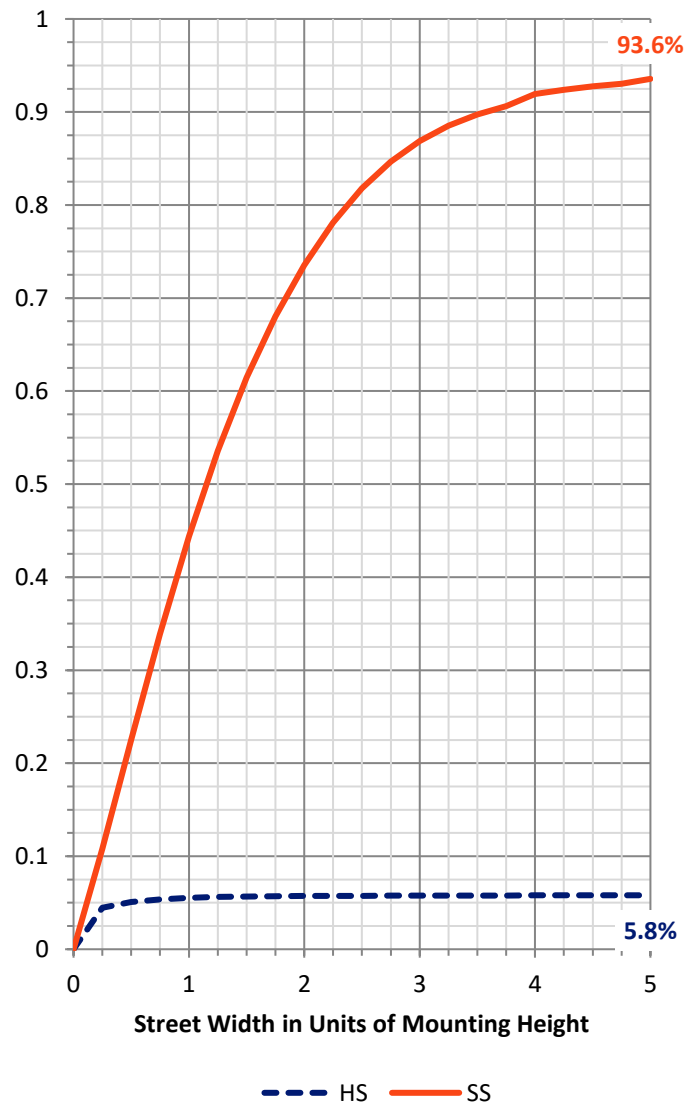
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.9	0.0	1273.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	20500.4	0.0	20500.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	21774.3	0.0	21774.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.2
10°-20°	648.7	3.0
20°-30°	1092.6	5.0
30°-40°	1788.6	8.2
40°-50°	3096.8	14.2
50°-60°	4877.8	22.4
60°-70°	6370.2	29.3
70°-80°	3281.0	15.1
80°-90°	354.9	1.6
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°	21774.3	100.0
0°-180°	21774.3	100.0

Coefficient of Utilization



REPORT NUMBER: P192935

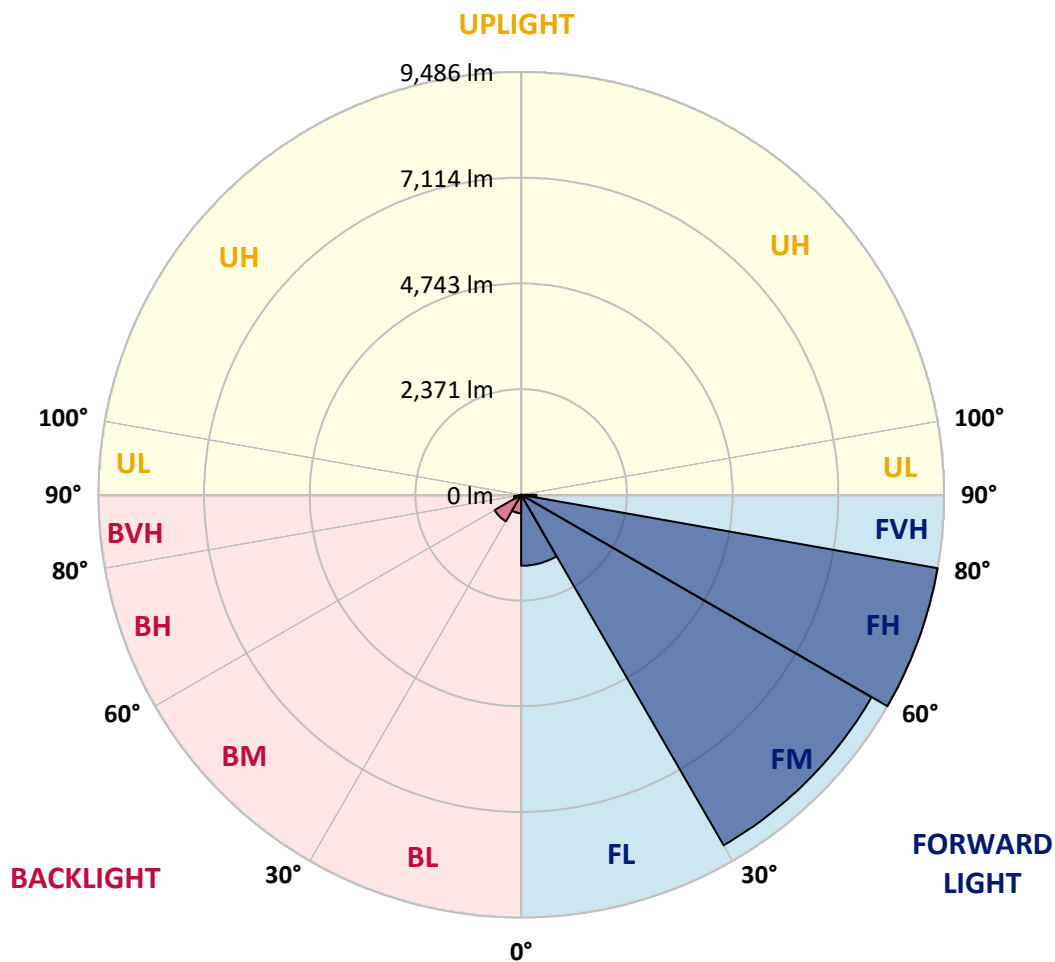
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1592.3	7.3			
FM	(30°-60°)	9078.5	41.7			
FH	(60°-80°)	9485.8	43.6			G4/12000
FVH	(80°-90°)	343.8	1.6			G3/500
BL	(0°-30°)	412.7	1.9	B1/500		
BM	(30°-60°)	684.7	3.1	B1/1000		
BH	(60°-80°)	165.4	0.8	B1/500		G1/500
BVH	(80°-90°)	11.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P192935

CATALOG NUMBER: GAN-AF-07-LED-U-SL4-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2
2.5°	3572.0	3552.6	3540.9	3525.4	3505.9	3489.0	3482.6	3434.7	3389.3	3327.1	3255.8
5°	3638.2	3631.7	3610.9	3590.2	3566.9	3540.9	3526.7	3469.6	3404.8	3314.1	3189.8
7.5°	3644.6	3636.8	3610.9	3582.4	3550.0	3518.9	3494.2	3437.2	3377.6	3285.7	3134.0
10°	3634.3	3625.1	3605.8	3574.6	3534.4	3504.6	3480.0	3425.6	3375.0	3292.1	3123.6
12.5°	3622.6	3613.5	3604.5	3588.8	3553.8	3533.1	3512.3	3460.6	3415.2	3345.2	3161.2
15°	3634.3	3629.0	3639.4	3633.0	3613.5	3595.4	3574.6	3528.0	3486.5	3428.1	3229.8
17.5°	3683.4	3683.4	3715.9	3719.7	3701.6	3675.7	3645.9	3599.2	3564.2	3515.0	3311.5
20°	3798.8	3794.9	3836.4	3844.2	3800.1	3759.9	3715.9	3658.9	3631.7	3600.5	3391.9
22.5°	3997.1	3979.0	4003.6	3995.8	3909.0	3846.8	3792.4	3722.4	3708.2	3693.8	3481.3
25°	4255.1	4244.7	4261.5	4185.0	4032.1	3947.9	3883.1	3804.1	3804.1	3818.3	3582.4
27.5°	4629.7	4590.7	4533.7	4398.9	4169.6	4061.9	3992.0	3907.7	3929.7	3982.9	3715.9
30°	5013.3	4970.5	4839.6	4632.3	4336.7	4224.0	4142.3	4054.2	4106.0	4203.2	3894.8
32.5°	5391.7	5343.8	5158.4	4896.7	4576.6	4463.8	4384.7	4287.5	4374.3	4537.6	4156.5
35°	5758.5	5715.8	5501.9	5193.4	4895.4	4802.1	4729.4	4645.1	4756.6	4984.7	4525.9
37.5°	6170.8	6124.0	5863.5	5529.2	5282.9	5215.5	5162.3	5078.1	5272.6	5606.8	5040.4
40°	6677.5	6598.3	6247.1	5914.1	5731.3	5699.0	5662.6	5651.0	5953.0	6415.7	5726.2
42.5°	7258.1	7128.5	6649.0	6319.8	6223.9	6247.1	6238.0	6289.9	6804.4	7421.4	6560.8
45°	7838.8	7671.5	7096.1	6752.7	6765.6	6847.3	6897.7	7105.1	7871.1	8574.8	7459.0
47.5°	8331.2	8166.7	7525.1	7220.5	7376.1	7536.8	7674.2	8066.8	8967.7	9710.3	8157.7
50°	8752.5	8596.9	7980.1	7735.1	8084.9	8344.2	8567.1	9149.2	10147.1	10574.7	8647.6
52.5°	9097.3	8993.5	8451.9	8324.8	8895.2	9274.8	9601.4	10298.8	11191.8	11277.3	9028.5
55°	9432.9	9359.0	8958.6	9026.0	9846.5	10363.6	10777.0	11518.3	12091.2	11863.2	9394.1
57.5°	9819.2	9751.8	9536.5	9915.1	11097.1	11747.8	12198.8	12599.3	12883.2	12461.9	9738.9
60°	10213.2	10174.3	10179.4	10902.8	12533.2	13157.9	13406.7	13510.5	13660.8	13025.7	9758.3
62.5°	10589.1	10662.9	10914.4	12001.8	13908.3	14388.0	14513.7	14616.0	14439.7	13115.2	9015.6
65°	11225.4	11346.0	11946.1	13472.9	15420.9	15934.2	16063.8	15712.5	14562.8	11959.1	7333.3
67.5°	11536.4	11756.9	12827.4	14844.2	16888.1	17458.3	17410.4	15783.8	13068.5	9119.4	4706.2
69°	11471.6	11706.2	13031.0	15264.1	17375.4	17892.6	17588.0	14911.4	11133.4	6606.2	2889.1
70°	11215.0	11452.2	12925.9	15248.6	17437.6	17847.2	17258.7	13834.5	9413.6	4830.6	1806.7
72.5°	9365.6	9570.3	11475.6	13782.6	16063.8	15730.7	14438.5	9584.6	4586.8	1315.5	407.0
75°	5765.1	5879.0	8234.1	10383.0	12132.7	11277.3	9619.6	4768.3	1367.4	372.0	225.5
77.5°	3045.8	3097.6	4507.8	6120.1	7691.0	6363.8	4930.4	1859.9	629.9	233.3	163.4
80°	1800.3	1839.2	2427.6	2798.2	3328.4	2780.1	1971.4	1141.9	451.0	146.4	145.2
82.5°	1030.5	1055.0	1760.0	1555.3	1311.6	1119.8	981.1	1082.2	270.9	98.6	150.3
85°	378.5	383.6	990.2	1183.3	780.2	464.1	487.3	896.9	72.5	62.2	117.9
87.5°	176.2	172.4	509.3	724.5	456.2	294.2	379.7	197.0	28.5	40.2	32.4
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: P192935

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2	3253.2
2.5°	3214.3	3166.4	3079.5	2990.1	2899.3	2829.4	2760.7	2706.3	2688.1	2654.4	2656.9
5°	3115.8	3027.7	2846.2	2662.2	2470.4	2312.3	2163.3	2042.6	1984.3	1924.7	1924.7
7.5°	3030.3	2901.9	2618.1	2318.7	2009.0	1748.4	1513.8	1337.6	1240.3	1162.6	1161.3
10°	2997.8	2824.2	2427.6	1998.6	1567.0	1211.8	933.2	754.3	662.3	602.7	600.1
12.5°	3012.2	2796.9	2281.2	1703.1	1161.3	778.9	540.5	425.1	386.2	368.1	368.1
15°	3053.6	2789.2	2134.7	1414.1	820.4	487.3	359.0	327.9	325.3	325.3	325.3
17.5°	3104.2	2791.8	1984.3	1132.8	558.7	348.6	309.8	305.9	308.4	308.4	308.4
20°	3156.0	2793.1	1822.3	872.2	394.0	303.3	291.6	290.3	293.0	293.0	294.2
22.5°	3219.6	2799.5	1660.3	651.9	325.3	286.5	277.4	277.4	278.6	278.6	277.4
25°	3292.1	2812.6	1491.8	483.5	296.8	274.8	267.0	265.7	267.0	265.7	264.4
27.5°	3382.7	2830.7	1303.9	378.5	283.8	263.1	256.6	256.6	255.3	254.0	252.7
30°	3496.9	2851.4	1092.6	321.4	270.9	252.7	246.3	245.0	243.6	241.0	241.0
32.5°	3670.6	2896.8	883.9	291.6	256.6	238.5	233.3	233.3	230.7	228.2	226.8
35°	3937.4	2986.2	697.3	273.4	241.0	222.9	216.5	216.5	213.8	212.5	211.3
37.5°	4306.9	3122.3	541.8	256.6	225.5	206.1	199.6	198.3	195.7	193.2	191.9
40°	4798.1	3290.8	426.4	241.0	210.0	189.2	184.0	181.5	176.2	172.4	172.4
42.5°	5415.1	3482.6	346.1	224.2	191.9	173.7	169.8	165.8	156.8	153.0	151.7
45°	6060.5	3654.9	293.0	204.8	173.7	158.1	155.5	149.0	137.3	133.6	133.6
47.5°	6525.8	3695.1	258.0	186.7	156.8	141.3	140.0	128.3	117.9	115.4	114.0
50°	6816.1	3616.1	229.5	168.5	141.3	125.7	121.9	107.6	101.1	98.6	97.2
52.5°	7011.8	3474.8	206.1	153.0	127.1	111.5	102.3	92.0	86.9	84.2	84.2
55°	7168.7	3275.3	182.8	138.6	115.4	99.8	86.9	79.1	73.9	71.2	71.2
57.5°	7212.7	3004.3	159.4	127.1	103.7	88.2	73.9	68.8	62.2	60.9	60.9
60°	6892.6	2515.7	141.3	112.7	93.3	76.5	64.8	58.4	51.9	50.6	49.2
62.5°	6048.8	1946.8	124.4	99.8	81.6	66.1	55.7	48.0	42.7	42.7	42.7
65°	4614.1	1305.2	108.8	86.9	71.2	55.7	48.0	38.9	36.3	36.3	37.5
67.5°	2762.0	710.3	93.3	73.9	60.9	46.7	40.2	33.7	32.4	33.7	33.7
69°	1618.7	417.4	84.2	66.1	53.1	41.5	35.0	29.8	32.4	33.7	33.7
70°	999.2	281.3	77.8	59.6	48.0	37.5	32.4	28.5	31.1	32.4	32.4
72.5°	278.6	145.2	62.2	46.7	38.9	31.1	25.9	25.9	29.8	31.1	31.1
75°	181.5	107.6	48.0	35.0	29.8	24.6	22.1	24.6	28.5	29.8	29.8
77.5°	150.3	88.2	38.9	28.5	24.6	23.4	20.8	22.1	25.9	27.2	27.2
80°	137.3	62.2	31.1	25.9	22.1	20.8	19.4	18.1	23.4	24.6	24.6
82.5°	130.9	49.2	27.2	23.4	20.8	18.1	16.8	18.1	20.8	22.1	23.4
85°	81.6	32.4	24.6	22.1	18.1	16.8	16.8	16.8	19.4	20.8	20.8
87.5°	29.8	25.9	22.1	18.1	15.6	15.6	15.6	15.6	16.8	19.4	19.4
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)