

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: P192933

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192933
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-05-LED-U-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 15387 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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



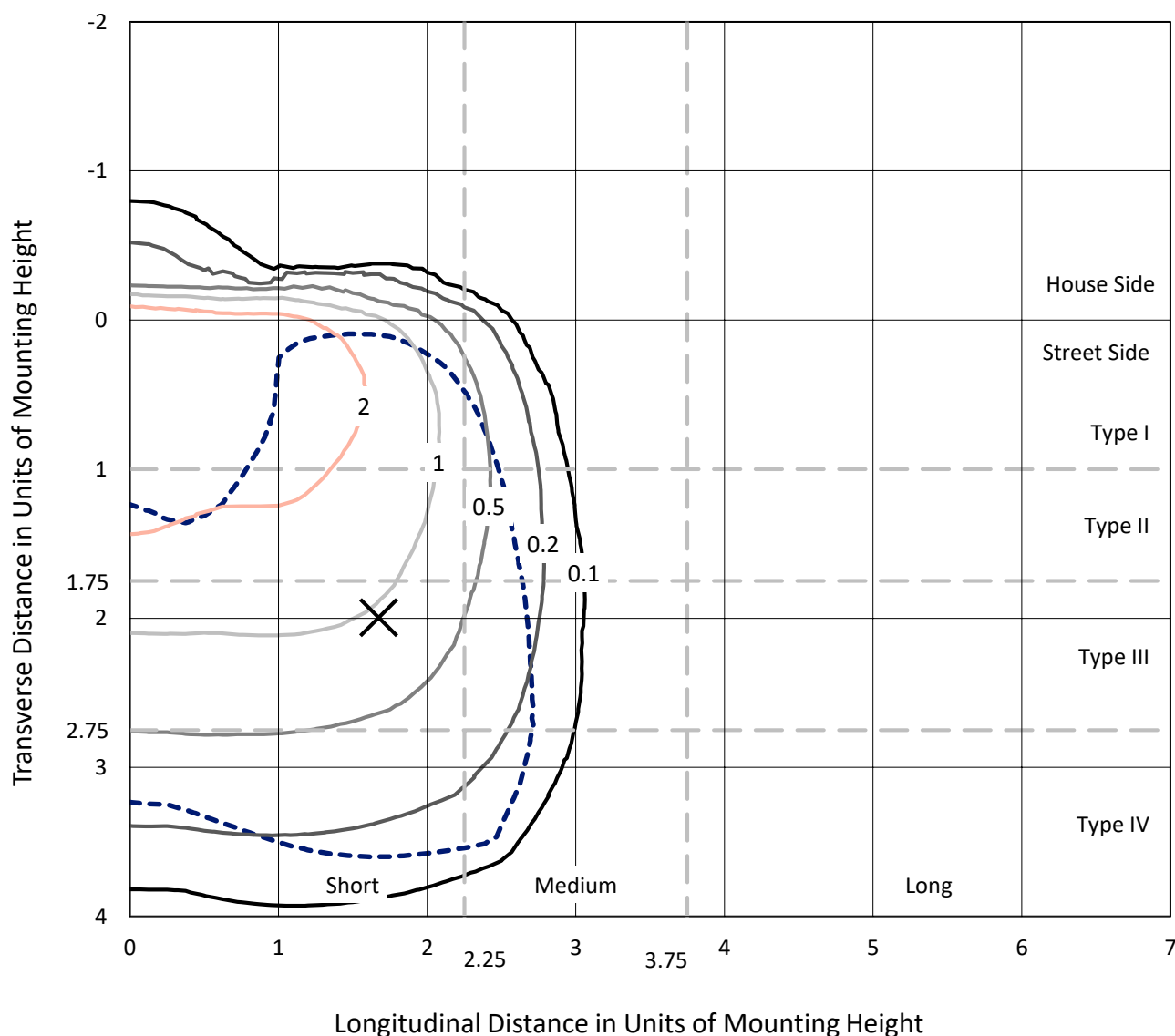
REPORT NUMBER: P192933

CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

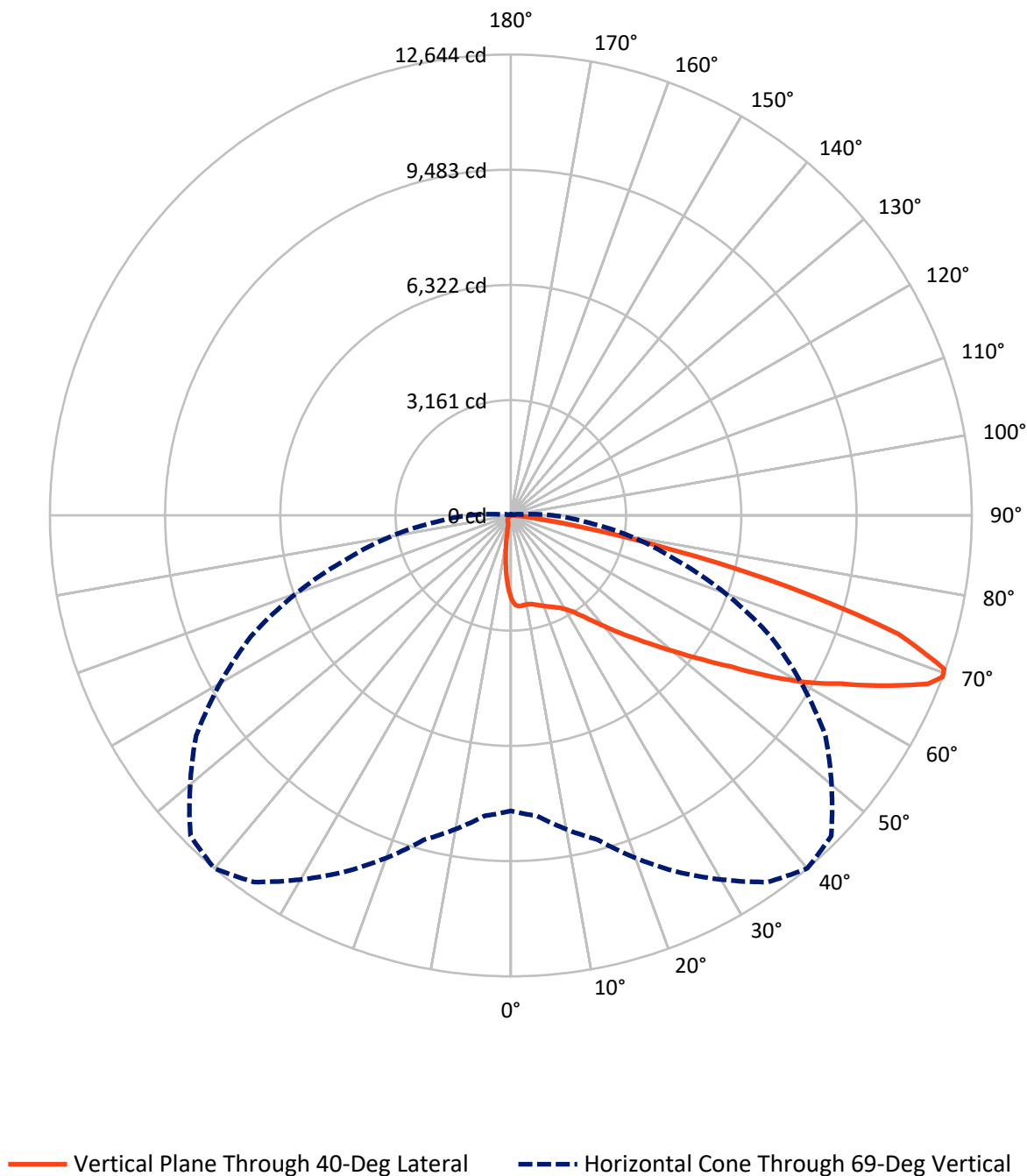


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192933

CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7030-600-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P192933

CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7030-600-HSS

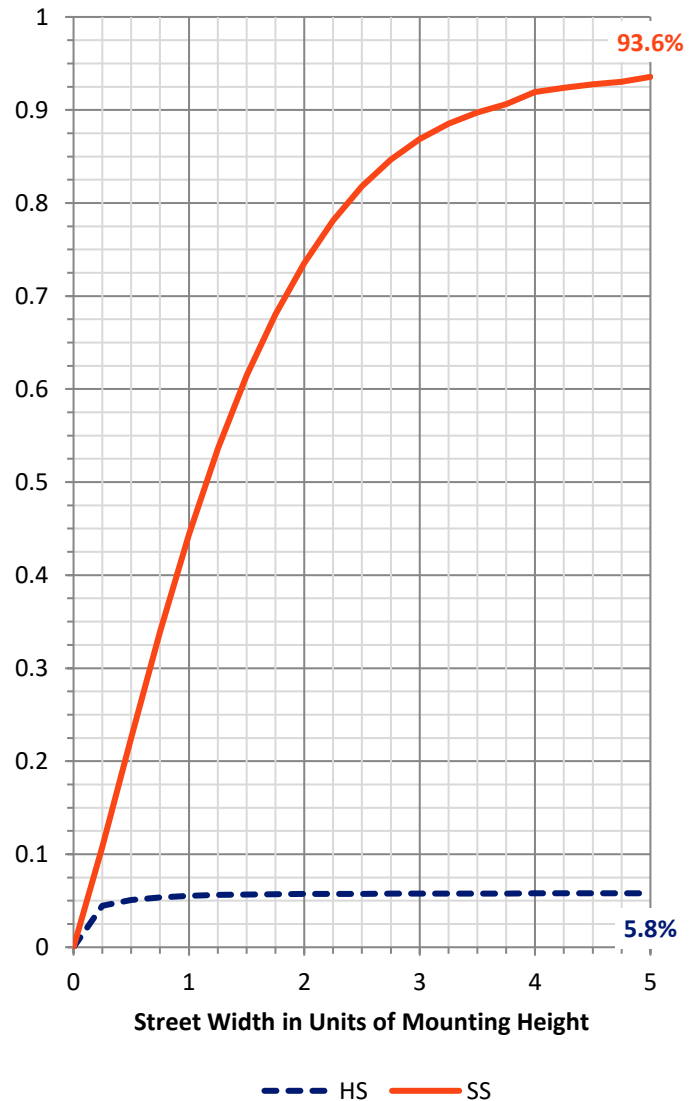
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.2	0.0	900.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	14486.7	0.0	14486.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	15387.0	0.0	15387.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	1.2
10°-20°	458.4	3.0
20°-30°	772.1	5.0
30°-40°	1263.9	8.2
40°-50°	2188.4	14.2
50°-60°	3446.9	22.4
60°-70°	4501.6	29.3
70°-80°	2318.5	15.1
80°-90°	250.8	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°	15387.0	100.0
0°-180°	15387.0	100.0



REPORT NUMBER: P192933

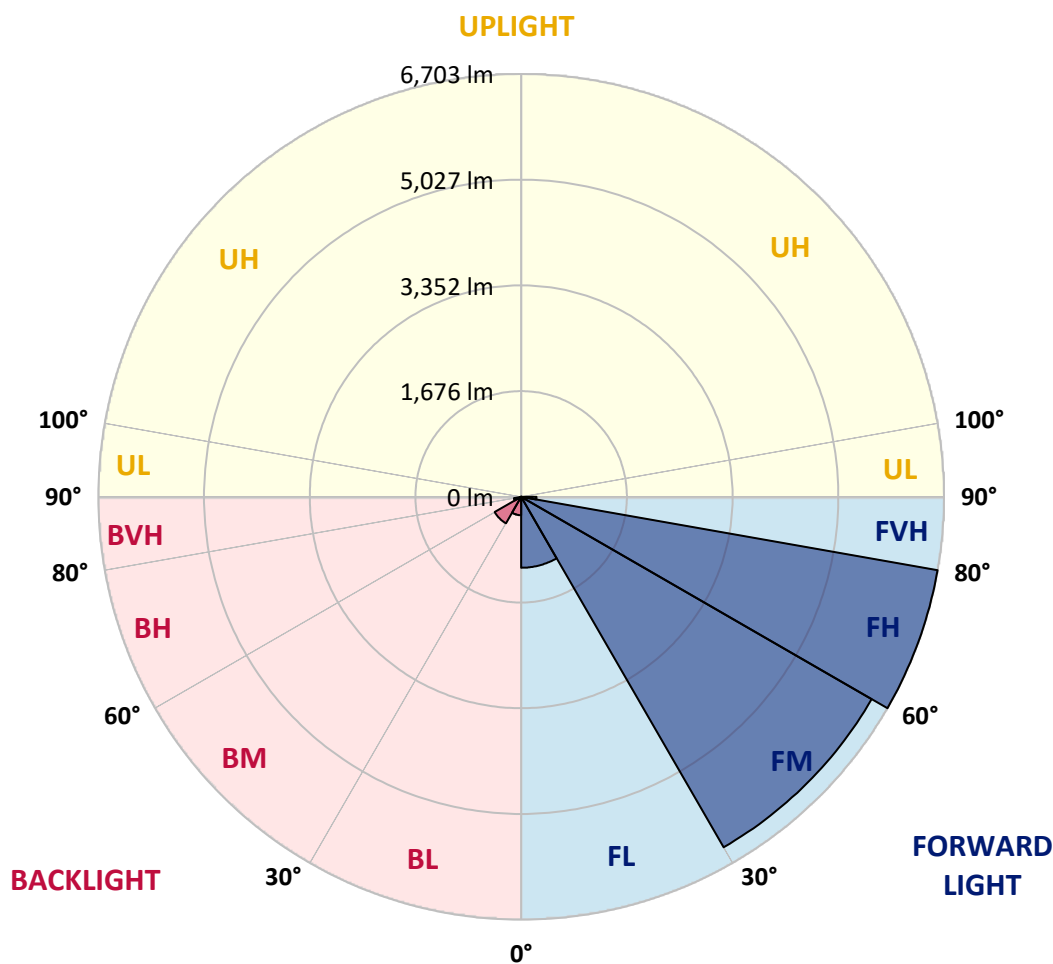
CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.2	7.3			
FM	(30°-60°)	6415.4	41.7			
FH	(60°-80°)	6703.2	43.6			G3/7500
FVH	(80°-90°)	242.9	1.6			G3/500
BL	(0°-30°)	291.6	1.9	B1/500		
BM	(30°-60°)	483.8	3.1	B1/1000		
BH	(60°-80°)	116.9	0.8	B1/500		G1/500
BVH	(80°-90°)	7.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P192933

CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0
2.5°	2524.2	2510.4	2502.2	2491.2	2477.5	2465.6	2460.9	2427.0	2395.1	2351.2	2300.7
5°	2570.9	2566.3	2551.6	2537.0	2520.5	2502.2	2492.1	2451.9	2406.1	2342.0	2254.0
7.5°	2575.5	2570.0	2551.6	2531.5	2508.6	2486.6	2469.3	2429.0	2386.8	2321.8	2214.6
10°	2568.1	2561.8	2548.0	2526.1	2497.6	2476.6	2459.2	2420.7	2385.0	2326.3	2207.2
12.5°	2560.0	2553.5	2547.1	2536.1	2511.5	2496.7	2482.1	2445.4	2413.4	2364.0	2234.0
15°	2568.1	2564.6	2571.9	2567.3	2553.5	2540.8	2526.1	2493.1	2463.8	2422.5	2282.4
17.5°	2603.0	2603.0	2625.8	2628.7	2615.7	2597.5	2576.5	2543.4	2518.8	2483.9	2340.2
20°	2684.5	2681.8	2711.0	2716.5	2685.4	2656.9	2625.8	2585.6	2566.3	2544.3	2396.9
22.5°	2824.6	2811.8	2829.2	2823.7	2762.3	2718.4	2679.9	2630.4	2620.4	2610.3	2460.1
25°	3007.0	2999.6	3011.5	2957.4	2849.4	2789.8	2744.0	2688.1	2688.1	2698.2	2531.5
27.5°	3271.5	3244.1	3203.8	3108.5	2946.4	2870.5	2821.0	2761.4	2777.1	2814.5	2625.8
30°	3542.7	3512.4	3420.0	3273.4	3064.6	2984.9	2927.2	2864.9	2901.6	2970.2	2752.2
32.5°	3810.1	3776.2	3645.2	3460.2	3234.1	3154.4	3098.5	3029.8	3091.2	3206.5	2937.3
35°	4069.4	4039.1	3888.0	3670.0	3459.3	3393.4	3342.1	3282.5	3361.4	3522.5	3198.3
37.5°	4360.5	4327.6	4143.5	3907.2	3733.2	3685.6	3648.0	3588.5	3725.8	3962.2	3562.0
40°	4718.7	4662.8	4414.6	4179.2	4050.1	4027.2	4001.5	3993.3	4206.7	4533.7	4046.4
42.5°	5128.9	5037.4	4698.5	4465.9	4398.1	4414.6	4408.2	4444.8	4808.4	5244.5	4636.3
45°	5539.3	5421.2	5014.6	4771.8	4780.9	4838.6	4874.4	5020.9	5562.2	6059.5	5271.0
47.5°	5887.3	5771.1	5317.6	5102.4	5212.3	5326.0	5423.0	5700.5	6337.0	6861.9	5764.6
50°	6185.0	6075.2	5639.2	5466.0	5713.3	5896.5	6054.0	6465.3	7170.5	7472.8	6110.9
52.5°	6428.7	6355.4	5972.5	5882.7	6285.8	6554.1	6784.9	7277.6	7908.7	7969.2	6380.0
55°	6665.9	6613.7	6330.7	6378.3	6958.0	7323.5	7615.7	8139.6	8544.4	8383.1	6638.4
57.5°	6938.8	6891.2	6739.1	7006.6	7841.9	8301.6	8620.4	8903.4	9104.0	8806.3	6882.0
60°	7217.2	7189.8	7193.4	7704.5	8856.7	9298.2	9474.0	9547.3	9653.5	9204.8	6895.8
62.5°	7482.8	7535.1	7712.7	8481.1	9828.4	10167.3	10256.1	10328.5	10203.9	9267.9	6370.9
65°	7932.6	8017.8	8441.8	9520.8	10897.3	11260.0	11351.6	11103.4	10291.0	8450.9	5182.1
67.5°	8152.4	8308.1	9064.5	10489.8	11934.1	12337.1	12303.2	11153.7	9234.9	6444.2	3325.7
69°	8106.6	8272.3	9208.4	10786.5	12278.4	12643.9	12428.7	10537.4	7867.5	4668.3	2041.5
70°	7925.2	8092.9	9134.2	10775.4	12322.5	12611.9	12196.1	9776.3	6652.1	3413.6	1276.8
72.5°	6618.3	6762.9	8109.3	9739.6	11351.6	11116.2	10203.0	6773.1	3241.4	929.7	287.6
75°	4074.0	4154.5	5818.7	7337.2	8573.7	7969.2	6797.8	3369.5	966.3	262.9	159.4
77.5°	2152.3	2189.0	3185.5	4324.8	5434.9	4497.0	3484.1	1314.3	445.1	164.9	115.4
80°	1272.3	1299.6	1715.5	1977.4	2352.1	1964.6	1393.0	806.9	318.7	103.5	102.6
82.5°	728.1	745.5	1243.8	1099.0	926.8	791.4	693.4	764.9	191.4	69.6	106.2
85°	267.4	271.1	699.7	836.2	551.3	327.9	344.3	633.8	51.3	43.9	83.4
87.5°	124.5	121.9	359.9	512.0	322.5	207.9	268.3	139.2	20.1	28.4	23.0
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: P192933

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0	2299.0
2.5°	2271.4	2237.5	2176.1	2113.0	2048.8	1999.5	1950.9	1912.4	1899.6	1875.8	1877.6
5°	2201.8	2139.6	2011.4	1881.2	1745.8	1634.0	1528.6	1443.5	1402.3	1360.1	1360.1
7.5°	2141.4	2050.7	1850.1	1638.6	1419.6	1235.5	1069.7	945.2	876.5	821.5	820.6
10°	2118.4	1995.7	1715.5	1412.2	1107.4	856.4	659.5	533.0	468.0	425.9	424.0
12.5°	2128.6	1976.5	1612.0	1203.5	820.6	550.4	382.0	300.5	272.9	260.1	260.1
15°	2157.9	1971.0	1508.5	999.2	579.7	344.3	253.7	231.7	229.9	229.9	229.9
17.5°	2193.6	1972.7	1402.3	800.6	394.8	246.4	218.8	216.2	218.0	218.0	218.0
20°	2230.2	1973.8	1287.7	616.4	278.4	214.3	206.1	205.2	207.0	207.0	207.9
22.5°	2275.1	1978.3	1173.2	460.7	229.9	202.4	196.0	196.0	196.8	196.8	196.0
25°	2326.3	1987.5	1054.3	341.7	209.8	194.2	188.7	187.7	188.7	187.7	186.9
27.5°	2390.5	2000.3	921.4	267.4	200.6	186.0	181.4	181.4	180.4	179.5	178.6
30°	2471.1	2015.0	772.1	227.2	191.4	178.6	174.0	173.0	172.2	170.3	170.3
32.5°	2593.9	2047.0	624.6	206.1	181.4	168.5	164.9	164.9	163.1	161.1	160.3
35°	2782.5	2110.3	492.8	193.3	170.3	157.6	153.0	153.0	151.1	150.2	149.2
37.5°	3043.5	2206.4	382.9	181.4	159.4	145.7	141.1	140.2	138.3	136.5	135.6
40°	3390.7	2325.5	301.3	170.3	148.4	133.8	130.0	128.3	124.5	121.9	121.9
42.5°	3826.6	2460.9	244.5	158.4	135.6	122.7	119.9	117.2	110.8	108.0	107.2
45°	4282.8	2582.8	207.0	144.7	122.7	111.8	110.0	105.3	97.1	94.3	94.3
47.5°	4611.5	2611.2	182.3	131.8	110.8	99.9	98.9	90.6	83.4	81.5	80.7
50°	4816.7	2555.3	162.1	119.1	99.9	88.8	86.1	76.1	71.4	69.6	68.8
52.5°	4955.0	2455.5	145.7	108.0	89.8	78.7	72.3	65.0	61.4	59.5	59.5
55°	5065.8	2314.4	129.2	98.0	81.5	70.5	61.4	55.8	52.2	50.4	50.4
57.5°	5097.0	2123.0	112.6	89.8	73.3	62.3	52.2	48.5	43.9	43.0	43.0
60°	4870.8	1777.7	99.9	79.6	66.0	54.1	45.8	41.2	36.6	35.7	34.9
62.5°	4274.4	1375.7	88.0	70.5	57.7	46.8	39.4	33.9	30.3	30.3	30.3
65°	3260.7	922.2	76.9	61.4	50.4	39.4	33.9	27.5	25.6	25.6	26.6
67.5°	1951.8	501.9	66.0	52.2	43.0	33.0	28.4	23.8	23.0	23.8	23.8
69°	1144.0	294.9	59.5	46.8	37.5	29.3	24.7	21.1	23.0	23.8	23.8
70°	706.2	198.8	54.9	42.2	33.9	26.6	23.0	20.1	22.0	23.0	23.0
72.5°	196.8	102.6	43.9	33.0	27.5	22.0	18.3	18.3	21.1	22.0	22.0
75°	128.3	76.1	33.9	24.7	21.1	17.4	15.7	17.4	20.1	21.1	21.1
77.5°	106.2	62.3	27.5	20.1	17.4	16.5	14.6	15.7	18.3	19.2	19.2
80°	97.1	43.9	22.0	18.3	15.7	14.6	13.7	12.8	16.5	17.4	17.4
82.5°	92.6	34.9	19.2	16.5	14.6	12.8	11.9	12.8	14.6	15.7	16.5
85°	57.7	23.0	17.4	15.7	12.8	11.9	11.9	11.9	13.7	14.6	14.6
87.5°	21.1	18.3	15.7	12.8	11.0	11.0	11.0	11.0	11.9	13.7	13.7
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)