

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: P322964

Luminaire Tested: **GAN-SA0B-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40996 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

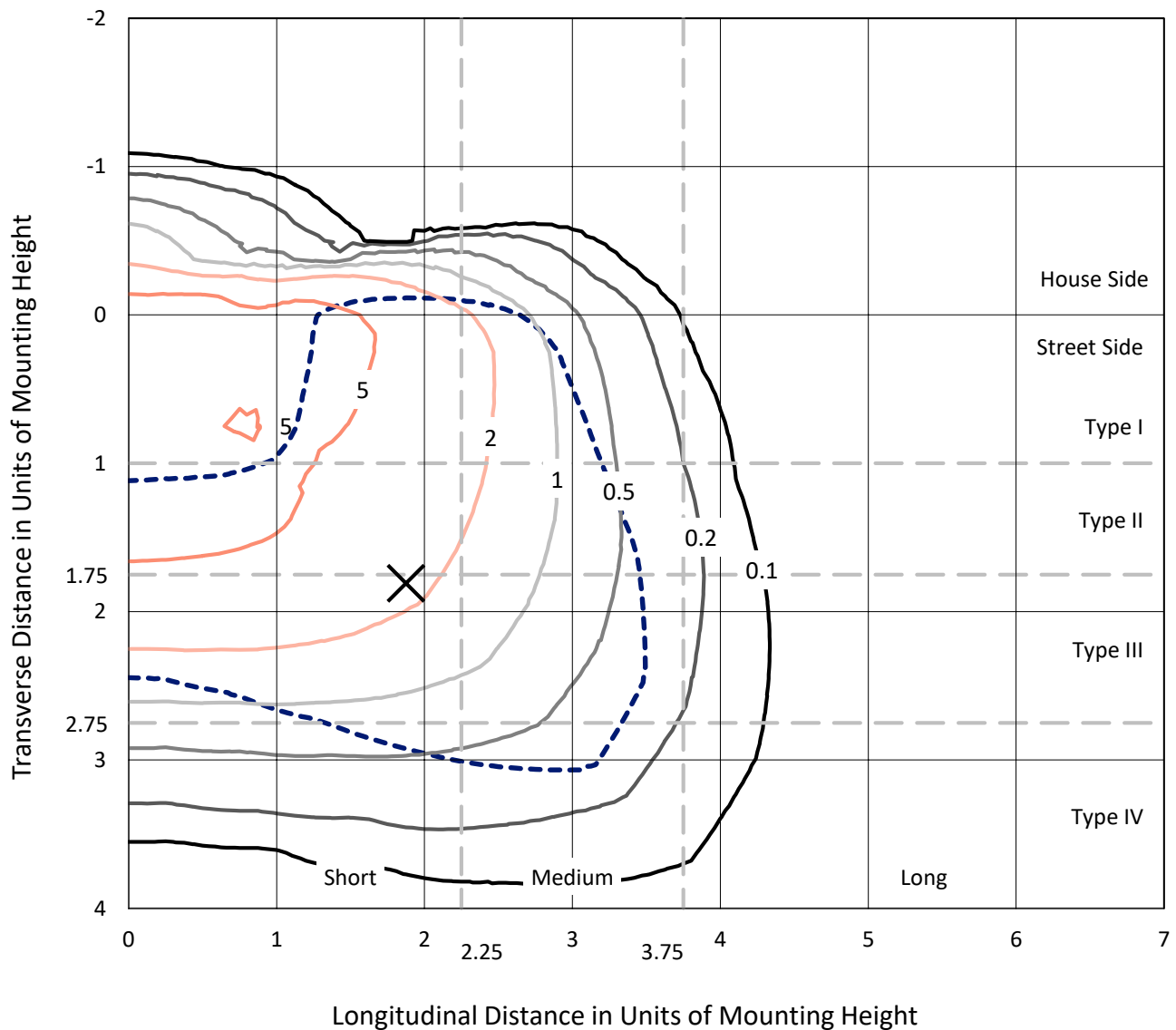
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322964
CATALOG NUMBER: GAN-SA0B-760-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

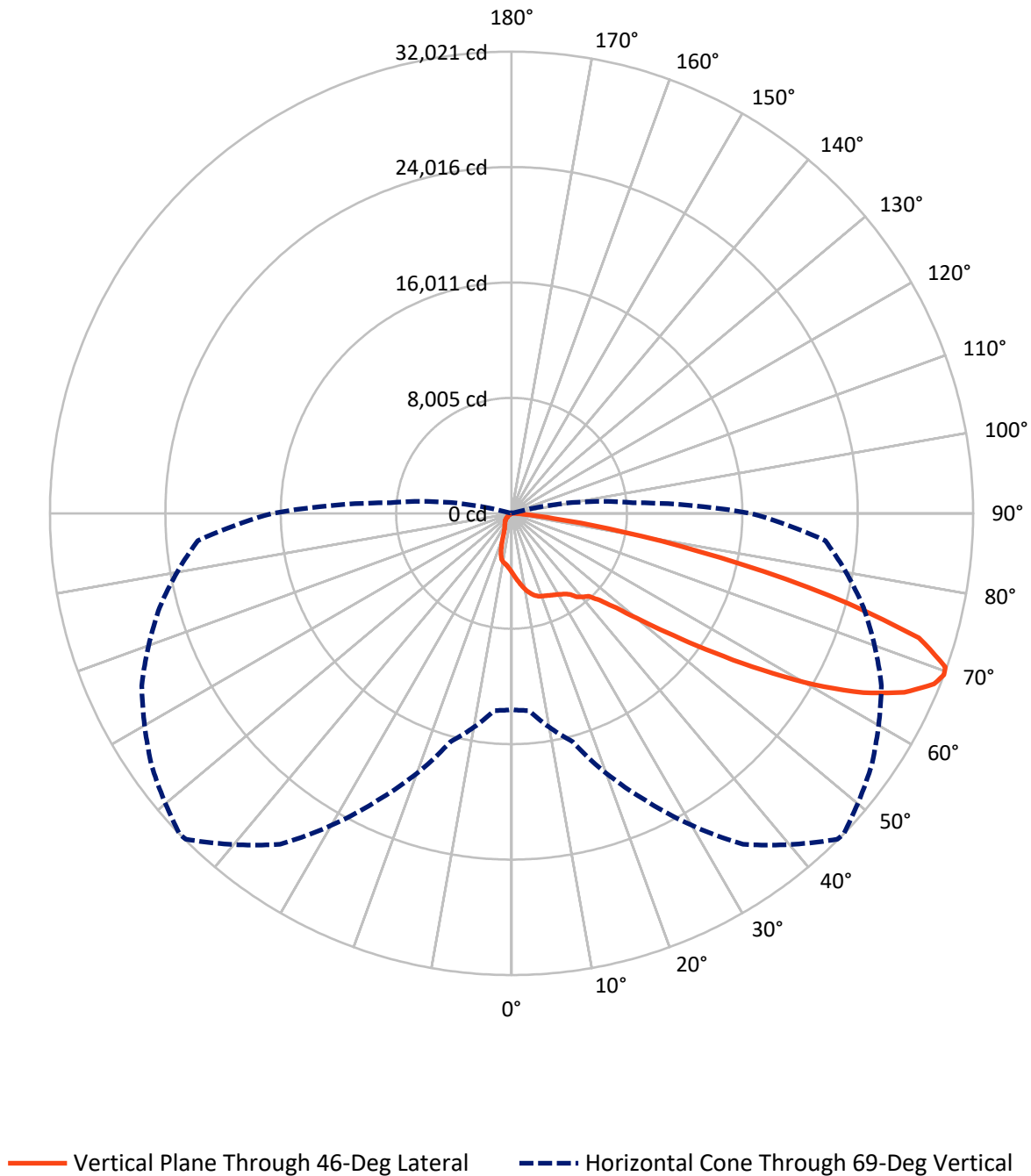
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

REPORT NUMBER: P322964
CATALOG NUMBER: GAN-SA0B-760-U-T4W-HSS

Luminous Intensity Polar Plot



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CATALOG NUMBER: GAN-SA0B-760-U-T4W-HSS

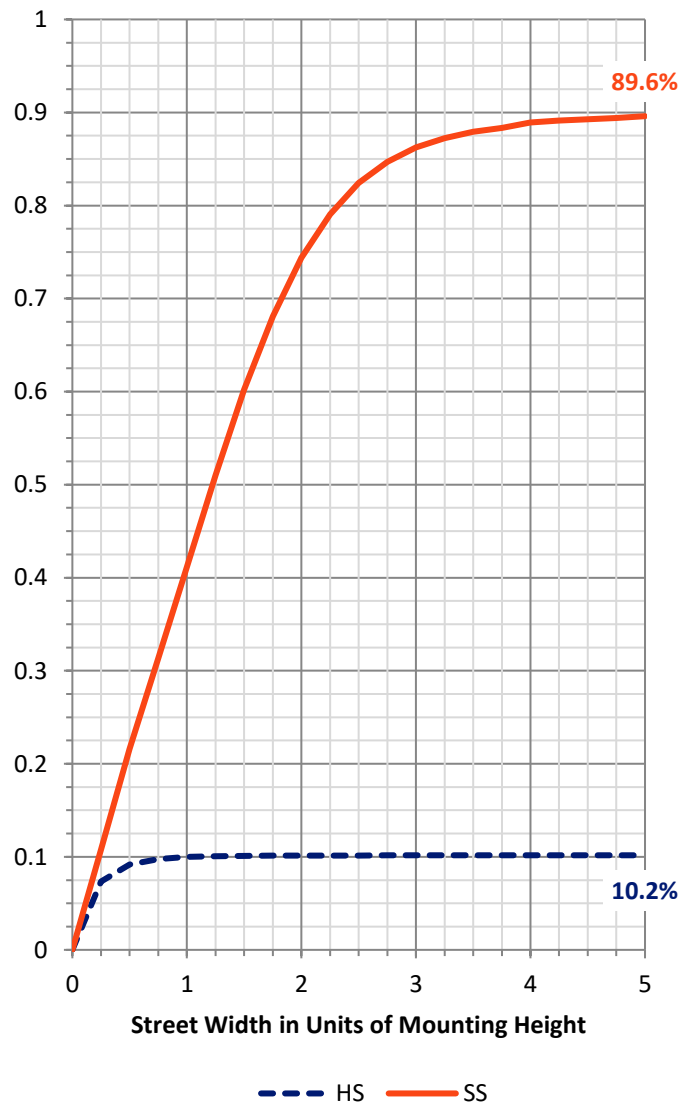
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4207.3	0.0	4207.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36788.7	0.0	36788.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	40996.0	0.0	40996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.9	1.0
10°-20°	1240.4	3.0
20°-30°	1950.7	4.8
30°-40°	2797.3	6.8
40°-50°	4834.8	11.8
50°-60°	9551.5	23.3
60°-70°	13349.1	32.6
70°-80°	6449.0	15.7
80°-90°	414.5	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°	40996.0	100.0
0°-180°	40996.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322964

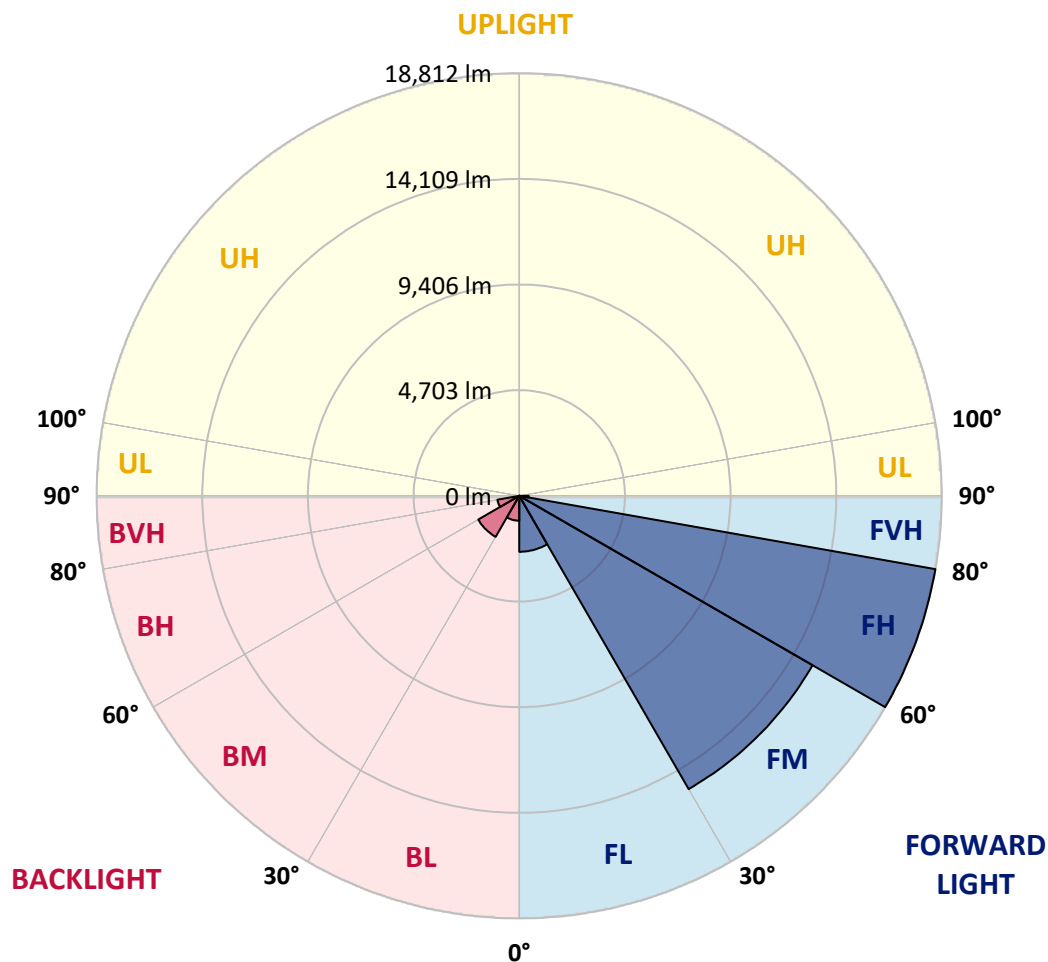
CATALOG NUMBER: GAN-SA0B-760-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2491.0	6.1			
FM	(30°-60°)	15075.1	36.8			
FH	(60°-80°)	18811.6	45.9			G5
FVH	(80°-90°)	411.0	1.0			G3/500
BL	(0°-30°)	1108.9	2.7	B3/2500		
BM	(30°-60°)	2108.4	5.1	B2/2500		
BH	(60°-80°)	986.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P322964

CATALOG NUMBER: GAN-SA0B-760-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6
2.5°	4563.2	4557.4	4530.5	4519.0	4453.6	4415.2	4399.8	4351.8	4282.6	4213.4	4136.5
5°	5082.2	5080.3	5030.3	4982.2	4859.2	4743.9	4722.7	4611.3	4455.6	4309.5	4163.4
7.5°	5612.7	5587.7	5537.7	5445.5	5266.7	5082.2	5064.9	4907.3	4686.2	4474.8	4265.3
10°	6062.5	6047.1	5981.7	5841.4	5631.9	5422.4	5401.3	5207.1	4957.2	4697.7	4430.6
12.5°	6412.3	6400.8	6314.3	6139.4	5916.4	5699.2	5670.4	5497.4	5230.2	4939.9	4624.7
15°	6625.7	6619.9	6514.2	6327.7	6108.6	5920.2	5895.3	5743.4	5495.4	5191.7	4836.1
17.5°	6675.6	6677.6	6568.0	6379.6	6199.0	6064.4	6045.2	5929.8	5722.3	5420.5	5047.6
20°	6564.2	6587.2	6489.2	6325.8	6214.3	6143.2	6127.8	6058.6	5883.7	5599.2	5216.7
22.5°	6406.5	6418.1	6350.8	6241.2	6195.1	6208.6	6200.9	6162.4	6014.4	5753.0	5384.0
25°	6310.4	6310.4	6270.1	6177.8	6208.6	6291.2	6293.1	6285.4	6168.2	5941.4	5587.7
27.5°	6306.6	6295.1	6248.9	6179.7	6264.3	6391.2	6398.9	6450.8	6377.7	6170.1	5841.4
30°	6460.4	6446.9	6348.9	6258.5	6366.2	6502.7	6521.9	6635.3	6598.8	6418.1	6124.0
32.5°	6819.8	6771.8	6554.5	6406.5	6487.3	6650.7	6675.6	6856.3	6914.0	6723.7	6396.9
35°	7311.9	7160.0	6846.7	6687.2	6694.9	6865.9	6889.0	7154.3	7325.3	7004.3	6608.4
37.5°	7990.4	7915.4	7406.1	6979.3	7013.9	7273.4	7340.7	7629.0	7581.0	7158.1	6848.6
40°	9478.1	9360.9	8818.8	7798.2	7319.6	7604.0	7625.2	7779.0	7782.8	7506.0	7348.4
42.5°	11504.1	11456.0	10885.2	9284.0	7921.2	7825.1	7863.5	8123.0	8413.3	8240.3	8232.6
45°	13747.3	13722.3	13116.8	11256.1	9137.9	8549.7	8597.8	8945.7	9501.2	9539.7	9783.8
47.5°	15552.2	15540.6	15192.7	13457.0	11000.5	9778.0	9793.4	10162.4	11138.9	11621.4	12011.5
50°	17197.5	17253.3	16978.4	15838.6	13537.7	11702.1	11665.6	11911.6	13480.1	14270.1	14754.5
52.5°	19484.9	19563.7	18792.9	18060.6	16199.9	14089.4	14060.6	14318.1	16294.1	16886.1	16972.6
55°	21505.1	21370.5	20761.2	20549.8	19446.4	17038.0	17030.3	17257.1	19015.9	19267.7	19427.2
57.5°	22397.0	22345.1	22639.1	23123.5	22846.7	20522.9	20505.6	20332.6	21451.3	21478.2	21968.3
60°	22960.1	23023.6	23925.1	25418.6	26108.6	24273.0	24161.5	23106.2	23777.1	23717.5	24242.2
62.5°	22537.3	22662.2	24284.5	26773.7	28549.8	27546.4	27388.8	25647.3	25764.6	25558.9	26047.1
65°	20292.2	20486.3	23144.7	26518.1	29760.7	30104.8	29945.3	27890.5	27342.7	27004.4	26733.3
67.5°	16476.7	16592.0	19367.6	24294.1	29214.8	31631.0	31598.3	29856.8	28534.4	26760.2	24657.4
69°	13616.5	13730.0	16401.8	21952.9	28013.5	31957.8	32021.2	30487.3	28307.6	25276.3	21847.2
70°	11532.9	11654.0	14143.2	19946.2	26619.9	31805.9	31919.3	30427.7	27657.9	23557.9	19381.1
72.5°	6049.0	6152.8	8707.4	13741.5	21701.1	29205.2	29549.3	27855.9	23444.5	17109.1	11459.9
75°	1901.0	1960.6	3400.3	7183.1	14858.3	22708.3	22787.2	21851.1	16647.8	9410.9	4772.7
77.5°	724.7	707.4	1132.1	2646.8	7511.8	14298.9	14781.4	13655.0	8736.2	3327.3	1101.4
80°	390.2	392.1	588.2	1095.6	3213.8	7348.4	7755.9	6618.0	3104.3	1038.0	253.7
82.5°	169.1	176.8	330.6	580.5	1476.2	2710.2	2914.0	2425.8	1186.0	697.7	94.2
85°	36.5	40.4	159.5	315.2	601.6	761.2	797.7	786.2	755.4	542.0	36.5
87.5°	0.0	0.0	71.1	113.4	151.9	173.0	151.9	198.0	417.1	365.2	19.2
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: P322964

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6	4107.6
2.5°	4111.5	4076.9	4017.3	3952.0	3905.8	3857.8	3819.3	3802.0	3782.8	3769.3	3786.6
5°	4103.8	4036.5	3921.2	3809.7	3729.0	3663.6	3609.8	3588.7	3567.5	3552.1	3550.2
7.5°	4171.1	4076.9	3900.1	3736.7	3611.7	3523.3	3450.3	3419.5	3394.5	3383.0	3373.4
10°	4299.9	4178.8	3942.3	3729.0	3567.5	3417.6	3260.0	3138.9	3060.1	3023.6	3010.1
12.5°	4467.1	4315.2	4023.1	3769.3	3534.8	3246.5	2912.1	2623.7	2437.3	2375.8	2339.3
15°	4663.1	4474.8	4128.8	3821.2	3415.7	2889.0	2322.0	1945.2	1772.2	1737.6	1699.2
17.5°	4851.5	4643.9	4255.7	3830.9	3154.3	2308.5	1701.1	1445.5	1378.2	1401.3	1407.0
20°	5016.8	4811.2	4380.6	3746.3	2679.5	1731.9	1316.7	1253.2	1278.2	1322.4	1330.1
22.5°	5184.1	4972.6	4495.9	3523.3	2072.1	1314.8	1186.0	1201.3	1226.3	1270.5	1278.2
25°	5387.8	5168.7	4603.6	3113.9	1555.0	1118.7	1126.4	1149.4	1174.4	1214.8	1218.6
27.5°	5622.3	5416.6	4674.7	2581.5	1153.3	1028.4	1053.3	1087.9	1112.9	1151.4	1159.1
30°	5933.7	5743.4	4697.7	2029.8	966.8	947.6	959.2	1001.4	1038.0	1072.6	1078.3
32.5°	6225.9	6066.3	4620.9	1532.0	895.7	872.7	872.7	897.6	939.9	972.6	980.3
35°	6495.0	6391.2	4374.8	1120.6	841.9	803.5	784.2	784.2	811.1	838.1	845.7
37.5°	6850.6	6846.7	3976.9	893.8	790.0	745.8	705.4	674.7	665.1	670.8	674.7
40°	7459.9	7465.7	3458.0	801.5	745.8	686.2	624.7	569.0	517.1	499.8	497.8
42.5°	8411.4	8324.9	2914.0	757.3	707.4	624.7	532.4	457.5	376.7	351.8	349.8
45°	9922.2	9409.0	2337.3	717.0	667.0	555.5	440.2	338.3	272.9	253.7	253.7
47.5°	12123.0	10833.3	1810.7	672.8	613.2	476.7	332.5	244.1	199.9	190.3	192.2
50°	14398.9	12228.8	1387.8	617.0	547.8	394.0	246.0	176.8	151.9	151.9	153.8
52.5°	16417.1	13251.3	1082.2	557.4	467.1	309.5	186.4	138.4	126.9	124.9	126.9
55°	18306.6	13910.6	828.4	488.2	371.0	230.7	142.2	113.4	105.7	101.9	100.0
57.5°	20128.8	14237.4	620.9	394.0	269.1	167.2	113.4	96.1	88.4	82.7	80.7
60°	21341.7	13972.1	426.7	290.2	186.4	121.1	94.2	82.7	73.0	67.3	65.4
62.5°	22026.0	13247.5	274.9	209.5	132.6	90.3	75.0	69.2	55.7	50.0	50.0
65°	21749.2	12051.9	192.2	149.9	96.1	67.3	55.7	55.7	40.4	32.7	30.8
67.5°	19273.5	10181.7	146.1	111.5	69.2	50.0	42.3	48.1	25.0	15.4	15.4
69°	16582.4	8438.3	124.9	92.3	57.7	40.4	36.5	44.2	17.3	11.5	9.6
70°	14412.3	7279.2	113.4	80.7	48.1	34.6	32.7	42.3	17.3	9.6	7.7
72.5°	8622.8	4059.6	86.5	57.7	30.8	26.9	26.9	48.1	17.3	9.6	7.7
75°	3484.9	1430.1	63.4	40.4	23.1	23.1	32.7	61.5	15.4	7.7	5.8
77.5°	790.0	313.3	36.5	25.0	15.4	23.1	38.4	48.1	9.6	3.8	0.0
80°	192.2	76.9	23.1	15.4	9.6	17.3	28.8	26.9	1.9	0.0	0.0
82.5°	63.4	26.9	9.6	7.7	1.9	5.8	13.5	7.7	0.0	0.0	0.0
85°	26.9	15.4	3.8	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)