

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: P324150

Luminaire Tested: **GAN-SA6A-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20663 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

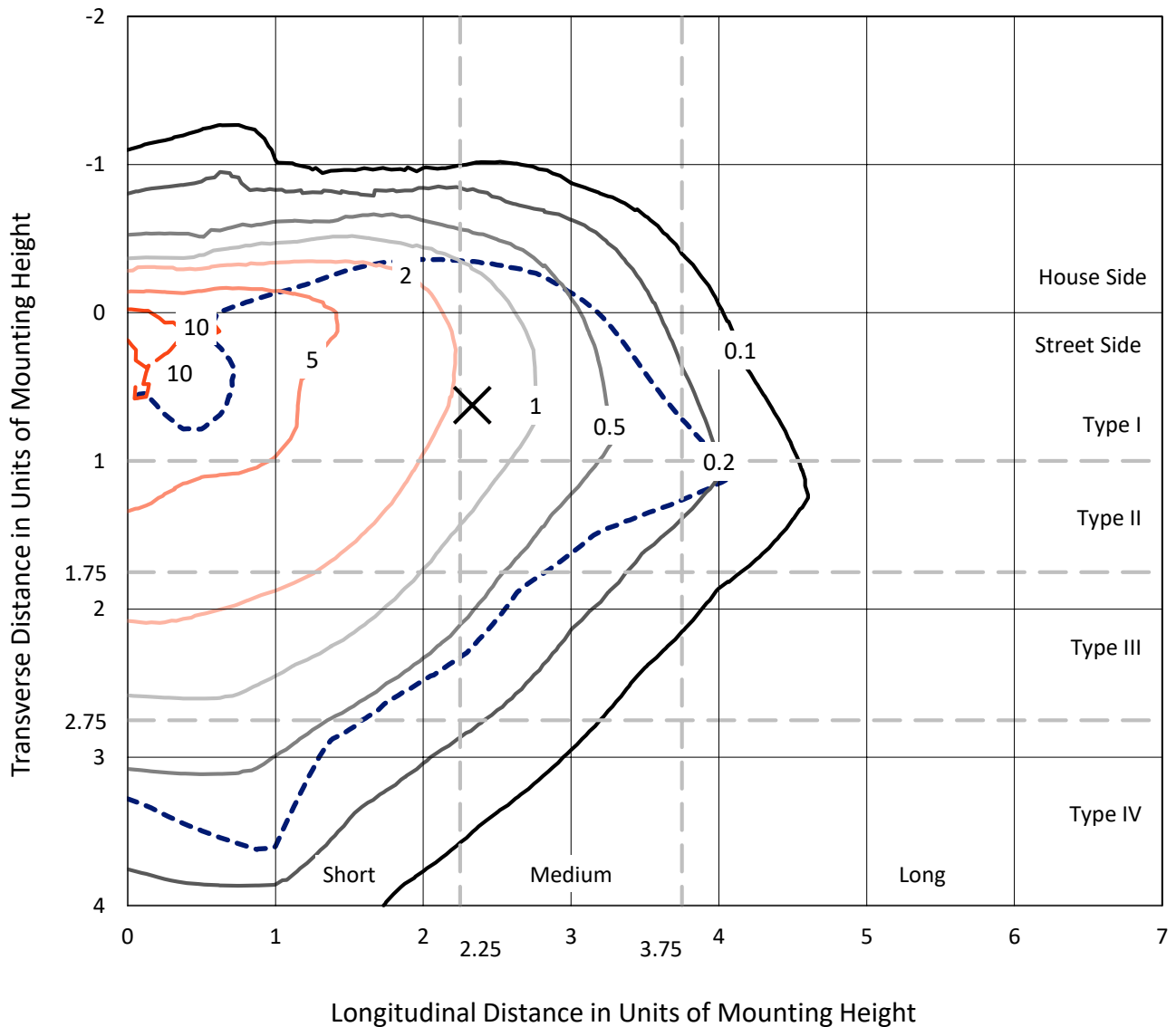
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

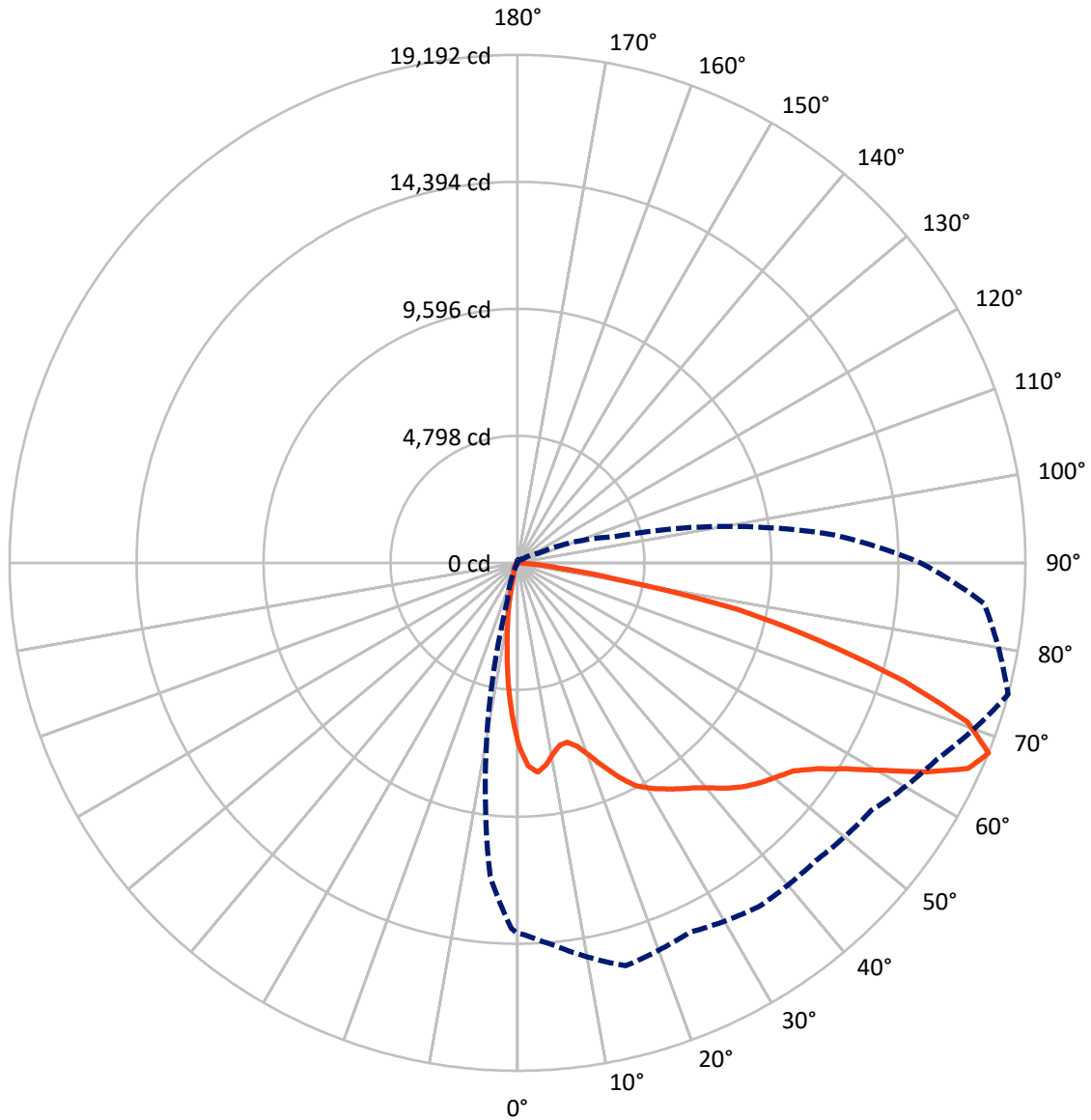
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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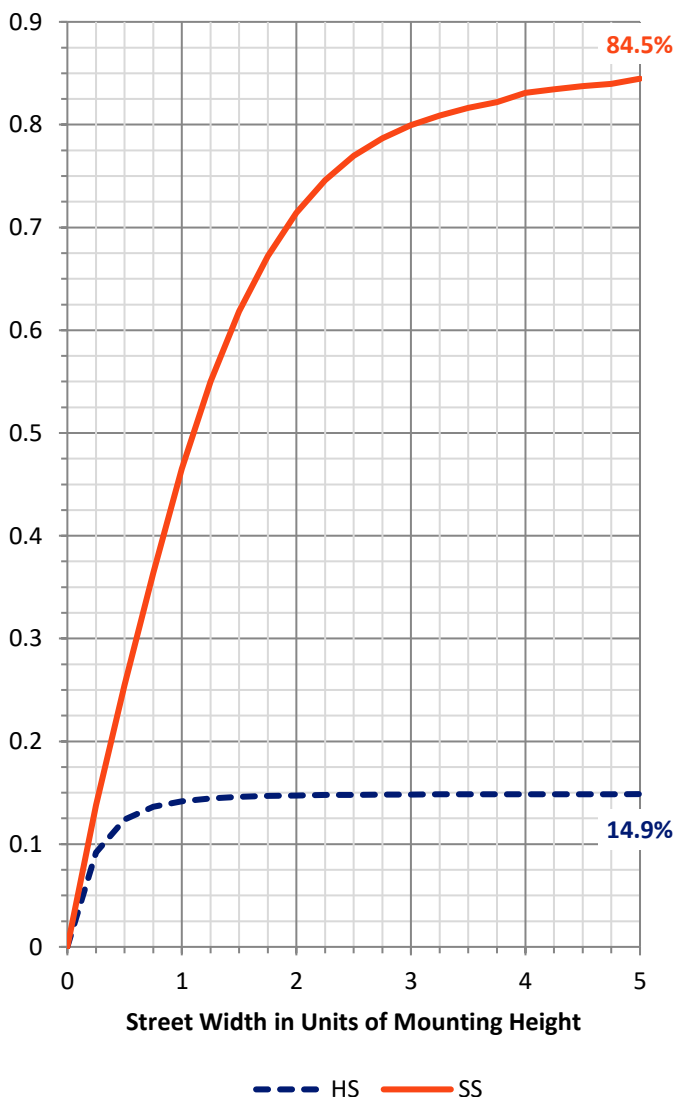
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3100.7	0.0	3100.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17562.3	0.0	17562.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	20663.0	0.0	20663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.8	2.5
10°-20°	1035.4	5.0
20°-30°	1464.8	7.1
30°-40°	2153.6	10.4
40°-50°	3095.4	15.0
50°-60°	4357.5	21.1
60°-70°	5089.2	24.6
70°-80°	2596.4	12.6
80°-90°	344.9	1.7
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°	20663.0	100.0
0°-180°	20663.0	100.0

Coefficient of Utilization

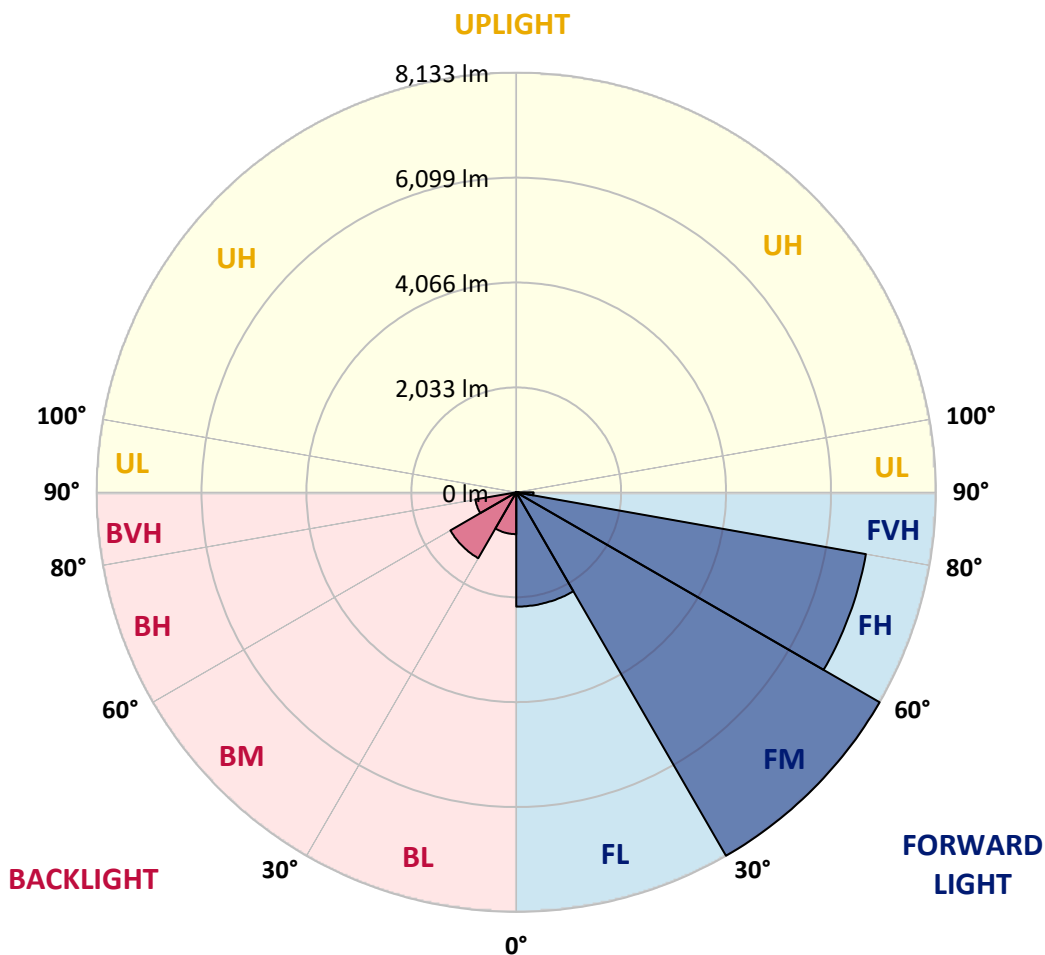


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.1	10.7			
FM (30°-60°)	8132.6	39.4			
FH (60°-80°)	6880.2	33.3			G3/7500
FVH (80°-90°)	334.4	1.6			G3/500
BL (0°-30°)	810.9	3.9	B2/1000		
BM (30°-60°)	1474.0	7.1	B2/2500		
BH (60°-80°)	805.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	7514.5	7526.2	7586.9	7727.9	7881.5	7893.3	7997.1	7890.4	7854.1	7681.9	7503.7
5°	7571.3	7616.3	7824.8	8238.8	8598.1	8713.6	8795.8	8586.3	8366.1	7945.2	7495.9
7.5°	7114.1	7189.5	7517.4	8294.6	8936.7	9220.6	9274.4	8946.5	8407.2	7714.2	7038.8
10°	6528.8	6614.9	7010.4	7965.7	8847.7	9334.1	9408.5	8978.8	8203.6	7340.3	6544.5
12.5°	6055.1	6155.9	6560.1	7595.7	8541.3	9079.6	9226.5	8870.2	8027.4	7075.0	6206.8
15°	5836.8	5952.3	6377.1	7356.9	8201.6	8625.5	8746.8	8593.2	7929.5	7032.9	6128.5
17.5°	5962.1	6087.4	6525.9	7377.5	7882.5	8063.6	8161.5	8224.1	7929.5	7286.4	6357.5
20°	6475.9	6611.0	7075.0	7585.9	7618.2	7550.7	7655.4	7875.7	8021.5	7768.0	6907.6
22.5°	7186.6	7345.1	7868.8	7943.2	7489.0	7233.6	7247.3	7592.8	8188.9	8378.8	7671.1
25°	8052.8	8246.7	8779.1	8475.7	7542.9	7044.6	7039.8	7359.8	8352.4	8990.6	8521.7
27.5°	8913.2	9126.6	9594.5	9125.6	7765.1	7010.4	7000.6	7289.4	8511.9	9534.8	9450.6
30°	9634.6	9842.1	10245.4	9596.5	8004.9	7090.7	7043.7	7364.7	8606.9	9888.2	10128.0
32.5°	10221.9	10388.3	10714.3	9920.5	8261.3	7246.3	7144.5	7566.4	8768.4	10186.7	10750.5
35°	10868.0	11043.2	11173.4	10228.8	8549.1	7470.4	7324.6	7886.4	9017.0	10490.1	11432.7
37.5°	11605.0	11779.3	11763.6	10510.7	8914.2	7841.4	7748.4	8393.5	9403.6	10790.6	12194.3
40°	12326.4	12504.6	12377.3	10819.0	9342.9	8453.2	8384.7	9155.0	9921.4	11175.3	13087.0
42.5°	13001.8	13194.6	12922.5	11110.7	9853.9	9224.5	9342.0	10135.8	10569.4	11649.1	13856.3
45°	13546.0	13742.8	13379.6	11394.6	10392.3	10160.3	10513.6	11222.3	11348.6	12049.4	14376.1
47.5°	13941.5	14127.5	13696.8	11678.4	11081.3	11304.5	11920.2	12361.7	12052.3	12396.9	14745.1
50°	14194.0	14338.9	13789.8	12033.8	11985.8	12639.6	13385.5	13600.9	12715.0	12710.1	15193.4
52.5°	14354.6	14420.1	13858.3	12404.7	12929.4	14093.2	14820.5	14888.0	13397.3	13054.7	15797.4
55°	14907.6	14960.5	14343.8	12854.0	13709.5	15366.7	16118.4	16055.8	14169.6	13729.1	16509.9
57.5°	15851.2	15907.0	15347.1	13500.0	14340.9	16153.7	17059.1	17171.6	15075.0	14676.6	17273.4
60°	16324.9	16428.7	16229.0	14318.3	14952.6	16656.8	17700.2	18059.4	16206.5	15925.6	18013.4
62.5°	15895.2	16046.0	16335.7	15225.7	15560.5	16933.8	17899.9	18377.6	17365.4	17381.1	18469.6
65°	15037.8	15158.2	15649.6	15723.0	15912.9	16899.5	17406.6	17933.2	18075.1	18718.2	18445.1
67.5°	14002.2	14047.2	14464.2	15762.1	15401.9	15869.8	15924.6	16314.2	17514.2	19191.9	17704.1
70°	12511.4	12535.9	12900.0	14451.5	13235.8	13338.5	13257.3	13336.6	15057.4	18037.9	15833.6
72.5°	10069.2	10130.9	10648.7	12001.5	9642.5	9345.9	9984.1	9948.8	11596.2	15239.4	11759.7
75°	7413.7	7520.4	8302.4	9666.9	6767.6	6121.6	6587.5	6711.8	8243.7	11788.1	7354.0
77.5°	5190.7	5270.0	6027.6	7106.3	4898.1	4377.3	4209.0	4356.8	5441.3	8527.6	3704.9
80°	2990.3	3019.7	3503.2	4103.3	3300.6	3776.3	3421.0	3522.8	3260.5	3794.0	1593.5
82.5°	1956.7	1961.6	2150.5	2442.2	2055.5	2388.3	1767.8	2260.1	2005.6	1524.0	518.8
85°	1057.1	1063.0	1247.0	1733.5	1163.8	657.8	386.6	793.8	1240.2	349.4	141.9
87.5°	116.5	106.7	375.9	630.4	323.0	59.7	20.6	89.1	198.7	22.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	7412.7	7331.4	7128.8	6914.5	6742.2	6580.7	6418.2	6219.5	6065.8	6034.5	5983.6
5°	7254.1	6996.7	6571.9	6145.1	5801.5	5367.9	5092.9	4878.5	4669.0	4656.3	4614.2
7.5°	6700.1	6361.4	5763.4	5173.1	4689.6	4276.5	3859.5	3580.6	3361.3	3284.0	3238.0
10°	6167.6	5786.9	5040.0	4366.6	3934.9	3569.8	3276.1	2984.5	2720.2	2538.1	2455.9
12.5°	5795.7	5374.8	4551.6	3971.1	3661.8	3315.3	2957.0	2592.9	2288.5	2069.2	1935.1
15°	5651.8	5202.5	4388.1	3814.5	3432.8	2994.2	2536.2	2120.1	1782.5	1583.7	1463.4
17.5°	5823.1	5300.4	4375.4	3623.6	3090.2	2545.0	2038.9	1547.5	1229.4	1078.7	1001.3
20°	6257.7	5611.6	4370.5	3389.7	2683.0	2012.5	1381.1	1018.0	825.2	741.0	704.8
22.5°	6872.4	6009.0	4409.6	3158.7	2259.1	1437.9	953.4	747.8	649.0	603.9	583.4
25°	7663.3	6567.0	4520.2	2949.2	1860.8	1072.8	742.9	626.5	557.0	521.7	507.0
27.5°	8506.0	7209.1	4692.5	2767.2	1536.8	855.5	636.2	536.4	486.5	462.0	448.3
30°	9201.0	7953.0	4866.7	2564.5	1301.8	745.9	582.4	489.4	431.7	416.0	403.3
32.5°	9808.9	8515.8	4990.1	2381.5	1148.2	662.7	526.6	437.5	398.4	368.0	354.3
35°	10438.3	8984.7	4986.2	2253.3	1042.5	600.0	479.6	391.5	344.5	309.3	298.5
37.5°	11119.5	9514.2	4901.0	2143.6	996.5	550.1	453.2	367.1	320.1	284.8	271.1
40°	11917.3	10070.2	4813.9	2040.9	983.7	510.0	434.6	347.5	297.6	263.3	249.6
42.5°	12694.5	10571.4	4737.5	1964.5	928.9	509.0	418.0	332.8	279.9	246.7	231.0
45°	13316.0	11038.3	4722.9	1918.5	871.2	526.6	409.2	323.0	266.2	233.0	218.3
47.5°	13832.8	11545.3	4816.8	1886.2	816.3	480.6	430.7	316.2	253.5	221.2	204.6
50°	14447.5	12167.9	5038.0	1833.4	758.6	432.6	493.3	318.1	242.8	209.5	191.9
52.5°	15305.0	13029.2	5363.0	1744.3	679.3	388.6	485.5	320.1	231.0	196.7	179.1
55°	16266.2	14105.0	5712.5	1596.5	568.7	330.8	416.0	306.4	208.5	183.0	166.4
57.5°	17276.4	15080.9	5920.0	1420.3	452.2	285.8	332.8	279.0	184.0	164.4	153.7
60°	17434.9	15451.8	5825.0	1204.0	359.2	248.6	246.7	283.9	164.4	144.9	137.0
62.5°	17040.5	14985.9	5366.0	1011.1	300.5	218.3	202.6	247.6	148.8	129.2	121.4
65°	16281.9	13726.2	4622.0	911.3	279.0	187.0	168.4	174.2	130.2	112.6	105.7
67.5°	15226.7	12044.5	3794.9	854.5	276.0	160.5	143.9	132.1	112.6	97.9	92.0
70°	13069.4	10034.0	3027.5	823.2	268.2	135.1	121.4	107.7	94.0	83.2	78.3
72.5°	9619.0	7110.2	2355.1	788.9	270.2	107.7	105.7	89.1	75.4	64.6	62.6
75°	5557.8	4062.1	1544.6	639.2	257.4	83.2	88.1	62.6	52.9	45.0	45.0
77.5°	2961.9	2477.4	588.3	266.2	94.0	52.9	49.9	37.2	33.3	27.4	26.4
80°	1291.1	1090.4	177.2	74.4	51.9	28.4	18.6	16.6	14.7	11.7	10.8
82.5°	457.1	394.5	57.8	36.2	22.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	103.8	74.4	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	5879.8	5858.3	5731.1	5736.0	5758.5	5790.8	5714.4	5749.7	5844.6	5935.6	5969.9
5°	4546.7	4551.6	4474.2	4522.2	4565.3	4594.6	4471.3	4473.3	4548.6	4651.4	4705.2
7.5°	3203.7	3195.9	3199.8	3314.3	3395.6	3336.8	3382.8	3223.3	3233.1	3306.5	3251.7
10°	2381.5	2273.8	2213.1	2299.3	2388.3	2356.0	2276.8	2224.9	2261.1	2342.3	2336.5
12.5°	1871.5	1716.9	1625.8	1564.2	1637.6	1576.9	1574.9	1529.9	1481.0	1489.8	1620.0
15°	1407.6	1295.0	1187.3	1088.5	1086.5	1065.9	961.2	843.8	834.0	839.8	907.4
17.5°	968.1	929.9	885.8	800.7	778.2	692.0	590.2	543.3	519.8	530.5	553.0
20°	680.3	665.6	670.5	624.5	592.2	510.0	450.3	431.7	427.7	438.5	449.3
22.5°	563.8	537.4	534.4	513.9	481.6	421.9	389.6	378.8	373.9	383.7	391.5
25°	493.3	466.9	456.1	443.4	409.2	368.0	348.5	338.7	333.8	339.7	344.5
27.5°	434.6	410.1	400.3	391.5	358.3	328.9	313.2	304.4	300.5	302.5	307.4
30°	390.6	369.0	356.3	345.5	317.1	296.6	282.9	274.1	270.2	270.2	275.1
32.5°	344.5	332.8	321.1	307.4	280.9	267.2	253.5	243.7	239.8	240.8	244.7
35°	286.8	282.9	285.8	273.1	250.6	238.8	225.1	214.4	211.4	212.4	216.3
37.5°	254.5	236.9	247.6	240.8	228.1	212.4	194.8	185.0	180.1	183.0	185.0
40°	233.9	212.4	204.6	211.4	209.5	184.0	168.4	158.6	154.7	155.6	157.6
42.5°	216.3	190.9	173.3	172.3	184.0	160.5	143.9	135.1	130.2	130.2	132.1
45°	199.7	172.3	150.7	134.1	154.7	136.1	120.4	112.6	106.7	106.7	107.7
47.5°	187.0	156.6	131.2	109.6	116.5	111.6	98.9	91.0	85.2	85.2	86.1
50°	175.2	141.0	113.5	92.0	87.1	92.0	80.3	71.5	67.5	66.6	68.5
52.5°	162.5	125.3	96.9	78.3	68.5	69.5	62.6	56.8	51.9	51.9	53.8
55°	149.8	112.6	84.2	66.6	56.8	51.9	49.9	46.0	42.1	42.1	44.0
57.5°	137.0	98.9	71.5	54.8	45.0	41.1	41.1	38.2	35.2	35.2	37.2
60°	125.3	85.2	58.7	45.0	35.2	34.3	35.2	32.3	30.3	30.3	32.3
62.5°	111.6	72.4	48.0	37.2	28.4	27.4	30.3	28.4	26.4	26.4	28.4
65°	94.9	61.7	38.2	28.4	21.5	21.5	25.4	23.5	21.5	21.5	23.5
67.5°	80.3	51.9	29.4	20.6	15.7	16.6	21.5	19.6	18.6	18.6	20.6
70°	66.6	40.1	20.6	12.7	8.8	12.7	16.6	16.6	16.6	16.6	18.6
72.5°	49.9	27.4	11.7	4.9	3.9	8.8	13.7	15.7	14.7	14.7	17.6
75°	32.3	15.7	3.9	0.0	0.0	4.9	10.8	12.7	12.7	11.7	14.7
77.5°	18.6	4.9	0.0	0.0	0.0	0.0	6.9	5.9	4.9	3.9	6.9
80°	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P324150
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1	6932.1
2.5°	6107.9	6223.4	6385.9	6558.2	6823.4	7033.9	7240.4	7417.6	7486.1	7514.5
5°	4834.4	5003.8	5241.6	5547.0	6025.7	6456.4	6892.9	7332.4	7523.3	7571.3
7.5°	3469.0	3685.3	3987.8	4370.5	4931.4	5489.3	6099.1	6744.1	7039.8	7114.1
10°	2567.5	2831.8	3178.3	3581.5	4117.0	4690.6	5355.2	6092.2	6429.9	6528.8
12.5°	1821.6	2178.9	2642.8	3133.2	3597.2	4109.1	4781.6	5594.0	5948.4	6055.1
15°	1069.9	1415.4	1964.5	2621.3	3215.5	3734.2	4417.5	5338.5	5729.1	5836.8
17.5°	613.7	786.0	1201.0	1933.2	2739.7	3458.2	4302.9	5402.2	5862.2	5962.1
20°	468.9	523.7	692.0	1245.1	2183.8	3187.1	4302.9	5762.4	6329.1	6475.9
22.5°	410.1	450.3	518.8	742.9	1607.2	2896.4	4352.9	6283.1	7024.1	7186.6
25°	364.1	400.3	459.1	558.9	1096.3	2550.8	4471.3	6922.3	7842.4	8052.8
27.5°	326.0	360.2	413.1	489.4	749.8	2133.9	4630.9	7672.1	8744.9	8913.2
30°	291.7	324.0	372.0	425.8	578.5	1661.1	4766.9	8378.8	9453.6	9634.6
32.5°	259.4	288.8	331.8	372.0	473.8	1228.4	4781.6	8938.7	10041.8	10221.9
35°	229.0	255.5	294.6	326.0	392.5	970.0	4553.5	9424.2	10630.1	10868.0
37.5°	199.7	225.1	259.4	282.9	345.5	790.9	4205.1	9965.5	11384.8	11605.0
40°	172.3	194.8	230.0	245.7	326.9	607.9	3826.3	10533.2	12124.8	12326.4
42.5°	146.8	168.4	202.6	233.0	286.8	454.2	3417.1	11065.7	12790.4	13001.8
45°	122.4	144.9	179.1	246.7	237.9	339.7	2979.6	11419.0	13316.0	13546.0
47.5°	98.9	124.3	171.3	234.9	189.9	249.6	2633.1	11753.8	13714.4	13941.5
50°	79.3	104.7	192.8	209.5	155.6	190.9	2488.2	12053.3	13975.8	14194.0
52.5°	64.6	88.1	182.1	160.5	130.2	157.6	2566.5	12538.8	14217.5	14354.6
55°	53.8	69.5	109.6	111.6	110.6	134.1	2663.4	13235.8	14843.0	14907.6
57.5°	47.0	55.8	76.3	86.1	93.0	119.4	2665.4	14236.1	15811.1	15851.2
60°	40.1	48.9	63.6	69.5	80.3	106.7	2568.5	14585.6	16191.8	16324.9
62.5°	35.2	43.1	52.9	57.8	67.5	95.9	2341.4	14079.5	15669.1	15895.2
65°	31.3	39.2	44.0	48.9	59.7	86.1	1967.5	13067.4	14801.9	15037.8
67.5°	27.4	34.3	39.2	44.0	53.8	76.3	1448.7	11891.8	13806.4	14002.2
70°	24.5	30.3	35.2	39.2	47.0	64.6	879.0	10090.8	12430.2	12511.4
72.5°	23.5	27.4	32.3	35.2	41.1	56.8	445.4	7415.6	9937.1	10069.2
75°	20.6	24.5	29.4	31.3	36.2	48.9	181.1	4870.7	7201.3	7413.7
77.5°	16.6	22.5	26.4	28.4	31.3	40.1	92.0	3112.7	5053.7	5190.7
80°	5.9	16.6	22.5	23.5	26.4	29.4	60.7	1704.1	2931.6	2990.3
82.5°	0.0	10.8	17.6	16.6	18.6	22.5	39.2	810.5	1935.1	1956.7
85°	0.0	4.9	13.7	10.8	7.8	15.7	13.7	177.2	1015.0	1057.1
87.5°	0.0	0.0	1.0	4.9	3.9	5.9	2.0	1.0	92.0	116.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)