

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: P324213

Luminaire Tested: **GAN-SA9C-750-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324213
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-SA9C-750-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA 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: 46877 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

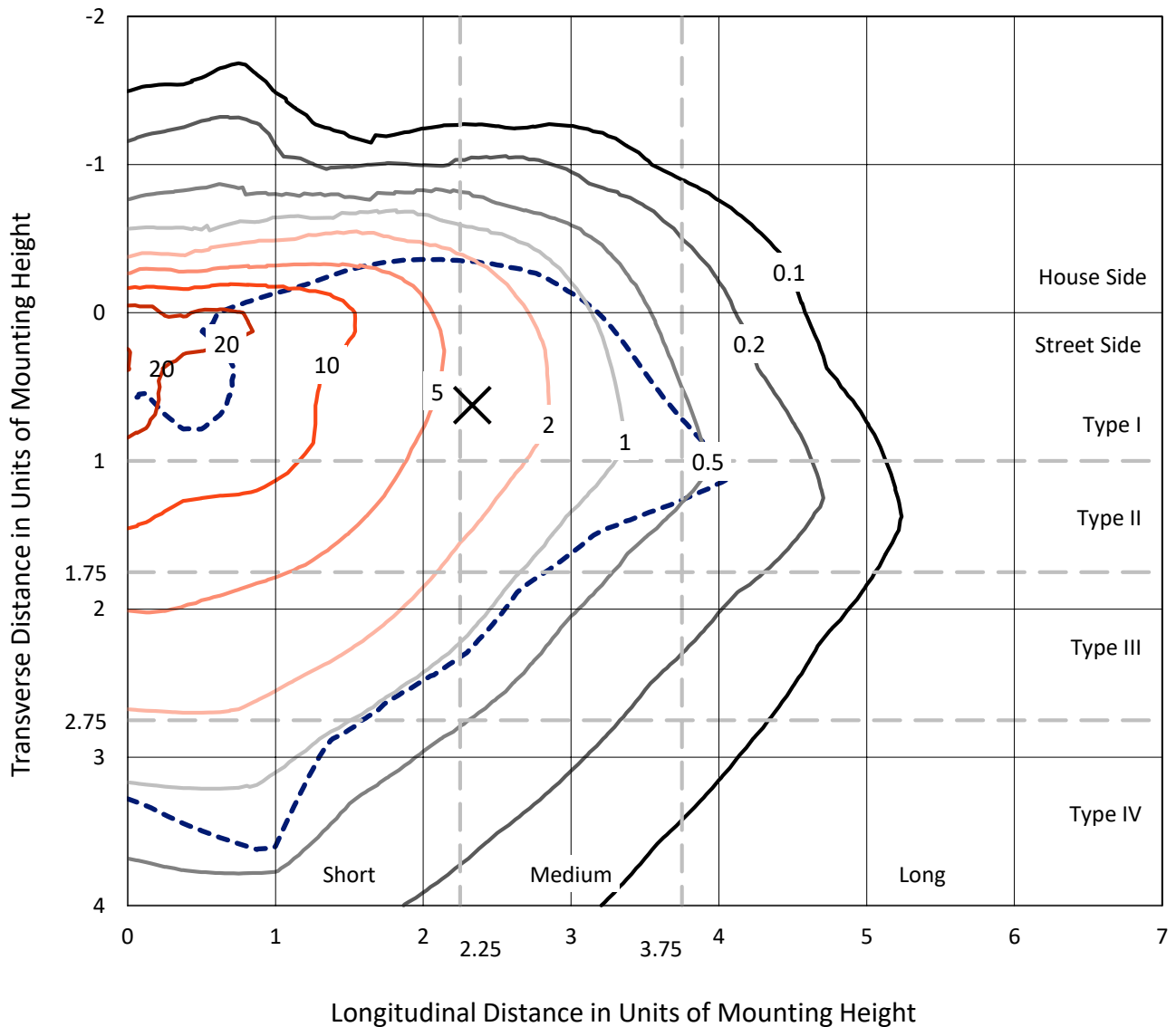
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

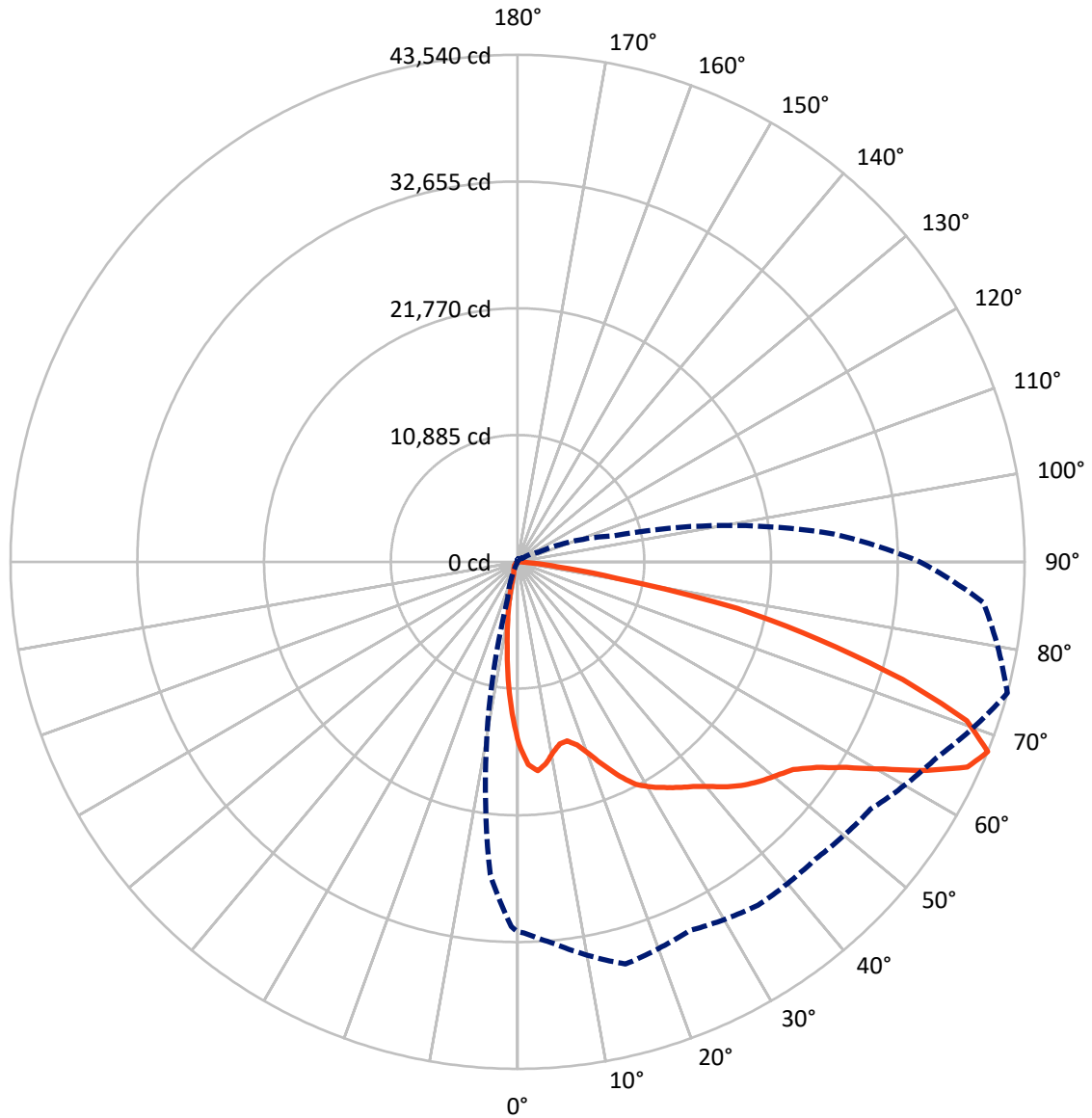
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.6 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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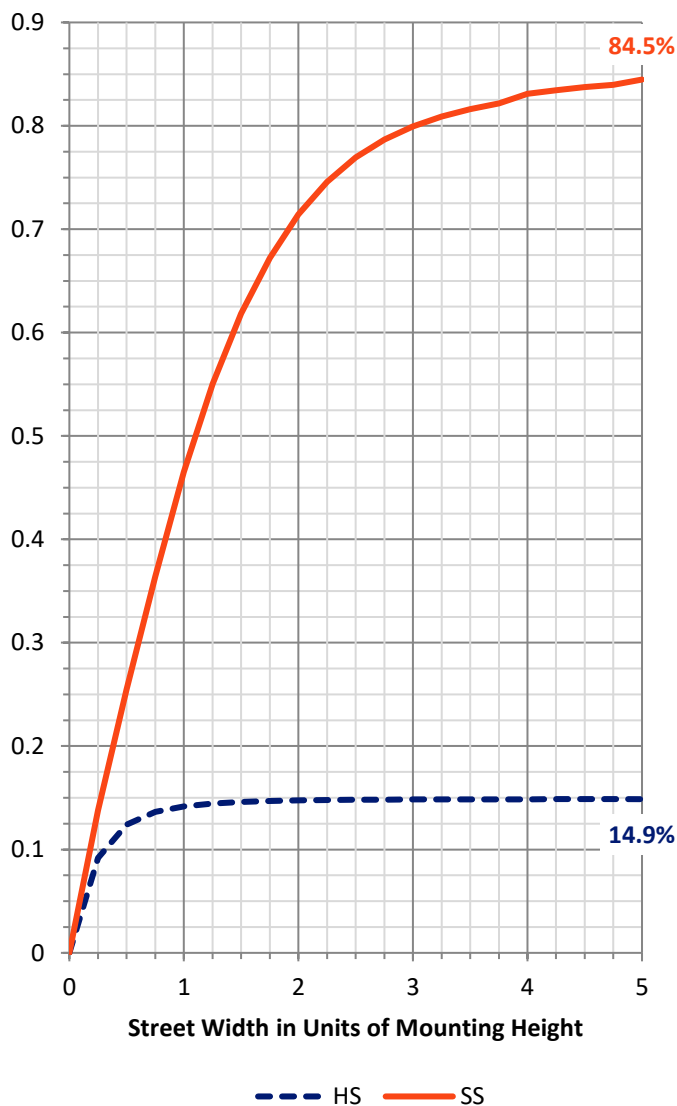
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7034.4	0.0	7034.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39842.6	0.0	39842.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	46877.0	0.0	46877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1192.9	2.5
10°-20°	2348.9	5.0
20°-30°	3323.0	7.1
30°-40°	4885.7	10.4
40°-50°	7022.4	15.0
50°-60°	9885.7	21.1
60°-70°	11545.6	24.6
70°-80°	5890.2	12.6
80°-90°	782.5	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°	46877.0	100.0
0°-180°	46877.0	100.0

Coefficient of Utilization

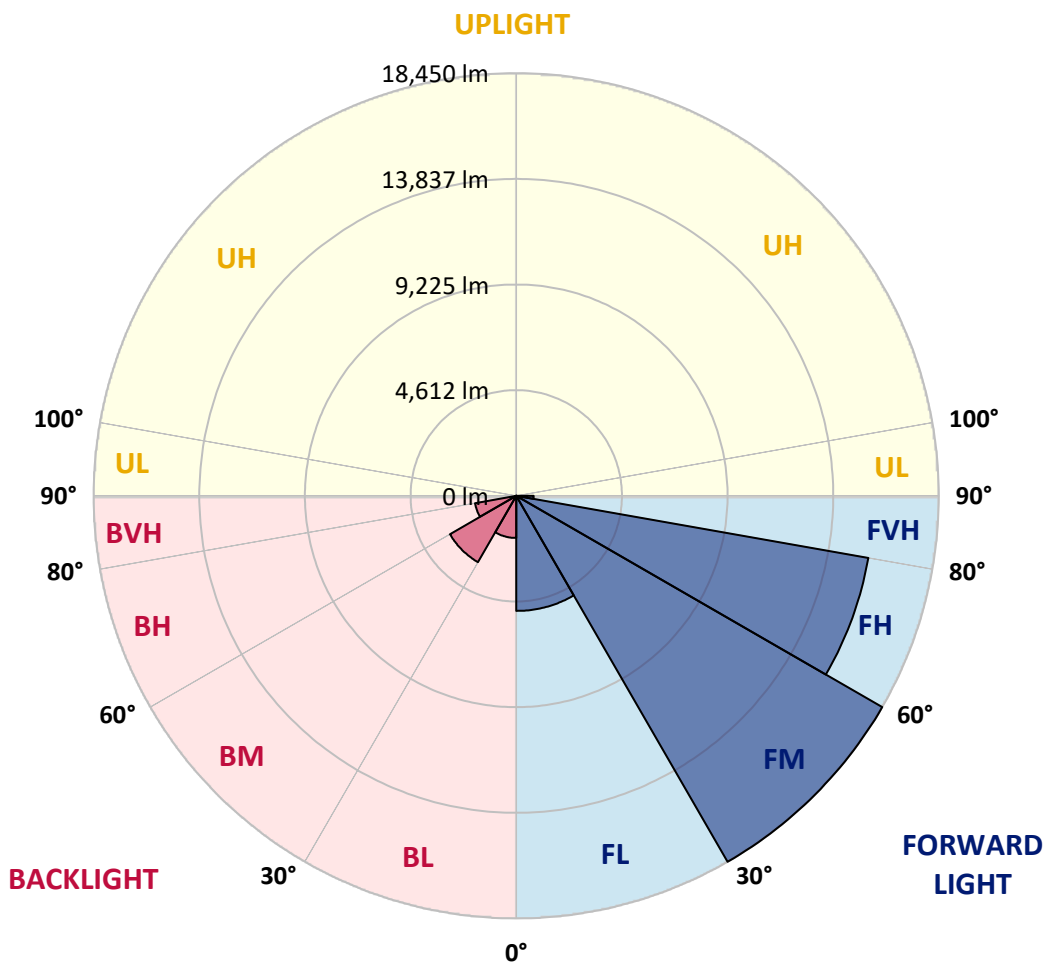


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5025.2	10.7			
FM (30°-60°)	18450.0	39.4			
FH (60°-80°)	15608.7	33.3			G5
FVH (80°-90°)	758.7	1.6			G5
BL (0°-30°)	1839.6	3.9	B3/2500		
BM (30°-60°)	3343.9	7.1	B3/5000		
BH (60°-80°)	1827.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	23.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4
2.5°	17047.7	17074.3	17212.0	17531.8	17880.4	17907.1	18142.5	17900.4	17818.3	17427.4	17023.3
5°	17176.5	17278.6	17751.6	18691.0	19505.9	19768.0	19954.5	19479.3	18979.6	18024.8	17005.5
7.5°	16139.5	16310.5	17054.4	18817.5	20274.3	20918.2	21040.4	20296.5	19072.9	17500.7	15968.5
10°	14811.5	15007.0	15904.1	18071.4	20072.2	21175.8	21344.6	20369.7	18611.0	16652.4	14847.1
12.5°	13736.8	13965.5	14882.6	17232.0	19377.1	20598.5	20931.6	20123.3	18211.3	16050.6	14081.0
15°	13241.6	13503.6	14467.3	16690.2	18606.6	19568.1	19843.5	19494.8	17989.2	15955.2	13903.3
17.5°	13525.8	13810.0	14804.9	16736.8	17882.7	18293.5	18515.5	18657.7	17989.2	16530.3	14422.9
20°	14691.6	14998.1	16050.6	17209.8	17283.1	17129.9	17367.5	17867.1	18198.0	17622.8	15670.9
22.5°	16303.8	16663.5	17851.6	18020.3	16990.0	16410.4	16441.5	17225.4	18577.7	19008.5	17403.0
25°	18269.0	18708.7	19916.7	19228.3	17112.1	15981.8	15970.7	16696.8	18948.6	20396.4	19332.7
27.5°	20221.0	20705.1	21766.5	20702.8	17616.2	15904.1	15881.9	16537.0	19310.5	21631.1	21440.1
30°	21857.6	22328.3	23243.2	21771.0	18160.2	16086.2	15979.6	16707.9	19525.9	22432.7	22976.8
32.5°	23189.9	23567.4	24306.9	22506.0	18742.0	16439.3	16208.3	17165.4	19892.3	23110.0	24389.1
35°	24655.5	25053.0	25348.4	23205.5	19394.9	16947.8	16616.9	17891.5	20456.4	23798.4	25936.8
37.5°	26327.7	26722.9	26687.4	23845.0	20223.2	17789.4	17578.4	19041.8	21333.5	24480.1	27664.5
40°	27964.3	28368.4	28079.7	24544.5	21195.8	19177.3	19021.8	20769.5	22508.2	25352.8	29689.7
42.5°	29496.5	29934.0	29316.6	25206.3	22355.0	20927.1	21193.6	22994.5	23978.3	26427.6	31435.1
45°	30731.2	31177.5	30353.7	25850.2	23576.3	23050.0	23851.7	25459.4	25745.9	27335.8	32614.2
47.5°	31628.3	32050.2	31073.1	26494.2	25139.6	25645.9	27042.7	28044.2	27342.5	28124.2	33451.4
50°	32201.2	32529.9	31284.1	27300.3	27191.5	28674.9	30367.0	30855.5	28845.9	28834.8	34468.5
52.5°	32565.4	32714.2	31439.5	28141.9	29332.2	31972.5	33622.4	33775.6	30393.6	29616.4	35838.6
55°	33820.0	33940.0	32541.0	29161.2	31102.0	34861.5	36567.0	36424.8	32145.7	31146.4	37455.2
57.5°	35960.7	36087.3	34817.1	30626.8	32534.3	36646.9	38701.0	38956.3	34199.8	33296.0	39187.3
60°	37035.5	37270.9	36817.9	32483.2	33922.2	37788.3	40155.5	40970.4	36766.8	36129.5	40866.1
62.5°	36060.7	36402.6	37059.9	34541.7	35301.2	38416.7	40608.5	41692.1	39396.0	39431.6	41900.9
65°	34115.4	34388.5	35503.3	35669.8	36100.6	38339.0	39489.3	40684.0	41006.0	42464.9	41845.4
67.5°	31766.0	31868.1	32814.1	35758.6	34941.5	36002.9	36127.3	37011.1	39733.6	43539.7	40164.4
70°	28384.0	28439.5	29265.6	32785.2	30027.2	30260.4	30076.1	30255.9	34159.8	40921.6	35920.8
72.5°	22843.5	22983.4	24158.1	27227.0	21875.3	21202.5	22650.3	22570.4	26307.7	34572.8	26678.5
75°	16819.0	17061.0	18835.3	21930.8	15353.4	13887.8	14944.8	15226.8	18702.1	26742.9	16683.5
77.5°	11775.9	11955.8	13674.6	16121.7	11112.0	9930.6	9548.7	9884.0	12344.4	19346.0	8405.0
80°	6784.0	6850.6	7947.6	9308.8	7487.9	8567.2	7761.1	7992.0	7396.9	8607.1	3615.2
82.5°	4439.0	4450.1	4878.7	5540.4	4663.3	5418.3	4010.4	5127.4	4550.1	3457.5	1176.9
85°	2398.3	2411.6	2829.1	3932.7	2640.3	1492.3	877.1	1800.9	2813.5	792.8	322.0
87.5°	264.3	242.0	852.7	1430.1	732.8	135.5	46.6	202.1	450.8	51.1	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°	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4
2.5°	16816.8	16632.4	16172.8	15686.5	15295.6	14929.2	14560.6	14109.8	13761.2	13690.1	13574.7
5°	16457.0	15873.0	14909.2	13941.1	13161.6	12177.9	11553.9	11067.6	10592.4	10563.5	10468.0
7.5°	15200.1	14431.8	13075.0	11736.0	10639.0	9701.9	8755.9	8123.0	7625.6	7450.2	7345.8
10°	13992.1	13128.3	11434.0	9906.2	8926.9	8098.6	7432.4	6770.7	6171.1	5758.1	5571.5
12.5°	13148.3	12193.4	10325.9	9009.1	8307.3	7521.2	6708.5	5882.4	5191.8	4694.4	4390.2
15°	12821.9	11802.6	9955.0	8653.8	7787.7	6792.9	5753.6	4809.9	4043.7	3593.0	3319.8
17.5°	13210.5	12024.7	9926.2	8220.7	7010.5	5773.6	4625.6	3510.8	2789.1	2447.1	2271.7
20°	14196.4	12730.8	9915.1	7690.0	6086.7	4565.6	3133.3	2309.4	1872.0	1681.0	1598.8
22.5°	15591.0	13632.4	10003.9	7165.9	5125.2	3262.1	2162.9	1696.6	1472.3	1370.1	1323.5
25°	17385.2	14898.1	10254.8	6690.7	4221.4	2433.8	1685.5	1421.2	1263.5	1183.6	1150.3
27.5°	19297.2	16354.9	10645.7	6277.7	3486.4	1940.8	1443.4	1216.9	1103.6	1048.1	1017.0
30°	20873.8	18042.5	11040.9	5818.0	2953.4	1692.1	1321.3	1110.3	979.3	943.8	914.9
32.5°	22252.8	19319.4	11320.7	5402.8	2604.8	1503.4	1194.7	992.6	903.8	835.0	803.9
35°	23680.7	20383.1	11311.8	5111.9	2365.0	1361.2	1088.1	888.2	781.7	701.7	677.3
37.5°	25226.2	21584.4	11118.6	4863.2	2260.6	1248.0	1028.1	832.7	726.1	646.2	615.1
40°	27036.1	22845.7	10921.0	4630.0	2231.7	1156.9	986.0	788.3	675.1	597.3	566.3
42.5°	28799.2	23982.7	10747.8	4456.8	2107.4	1154.7	948.2	755.0	635.1	559.6	524.1
45°	30209.3	25041.9	10714.5	4352.4	1976.4	1194.7	928.2	732.8	604.0	528.5	495.2
47.5°	31381.8	26192.2	10927.7	4279.1	1852.0	1090.3	977.1	717.3	575.1	501.9	464.1
50°	32776.4	27604.5	11429.5	4159.2	1721.0	981.5	1119.2	721.7	550.7	475.2	435.2
52.5°	34721.6	29558.7	12166.8	3957.1	1541.1	881.6	1101.4	726.1	524.1	446.3	406.4
55°	36902.3	31999.1	12959.5	3621.8	1290.2	750.6	943.8	695.1	473.0	415.3	377.5
57.5°	39193.9	34213.1	13430.3	3222.1	1025.9	648.4	755.0	632.9	417.5	373.1	348.6
60°	39553.7	35054.7	13214.9	2731.4	815.0	564.0	559.6	644.0	373.1	328.7	310.9
62.5°	38658.8	33997.7	12173.4	2293.9	681.7	495.2	459.7	561.8	337.5	293.1	275.4
65°	36937.8	31139.8	10485.8	2067.4	632.9	424.1	381.9	395.3	295.3	255.4	239.8
67.5°	34544.0	27324.7	8609.3	1938.6	626.2	364.2	326.4	299.8	255.4	222.1	208.7
70°	29649.7	22763.6	6868.4	1867.5	608.4	306.4	275.4	244.3	213.2	188.8	177.6
72.5°	21822.0	16130.6	5342.8	1789.8	612.9	244.3	239.8	202.1	171.0	146.6	142.1
75°	12608.7	9215.6	3504.1	1450.1	584.0	188.8	199.9	142.1	119.9	102.1	102.1
77.5°	6719.6	5620.4	1334.6	604.0	213.2	119.9	113.3	84.4	75.5	62.2	60.0
80°	2929.0	2473.8	401.9	168.8	117.7	64.4	42.2	37.8	33.3	26.6	24.4
82.5°	1037.0	894.9	131.0	82.2	51.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	235.4	168.8	0.0	20.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4
2.5°	13339.3	13290.4	13001.7	13012.8	13063.9	13137.2	12964.0	13043.9	13259.3	13465.8	13543.6
5°	10314.8	10325.9	10150.5	10259.3	10357.0	10423.6	10143.8	10148.2	10319.2	10552.4	10674.5
7.5°	7268.1	7250.3	7259.2	7519.0	7703.3	7570.1	7674.5	7312.5	7334.7	7501.3	7376.9
10°	5402.8	5158.5	5020.8	5216.2	5418.3	5345.0	5165.2	5047.5	5129.6	5313.9	5300.6
12.5°	4245.8	3895.0	3688.5	3548.6	3715.1	3577.4	3573.0	3470.8	3359.8	3379.8	3675.1
15°	3193.3	2937.9	2693.6	2469.3	2464.9	2418.3	2180.6	1914.2	1892.0	1905.3	2058.5
17.5°	2196.2	2109.6	2009.7	1816.5	1765.4	1570.0	1339.0	1232.4	1179.1	1203.6	1254.7
20°	1543.3	1510.0	1521.1	1416.8	1343.5	1156.9	1021.5	979.3	970.4	994.8	1019.3
22.5°	1279.1	1219.1	1212.5	1165.8	1092.5	957.1	883.8	859.4	848.3	870.5	888.2
25°	1119.2	1059.2	1034.8	1005.9	928.2	835.0	790.5	768.3	757.2	770.6	781.7
27.5°	986.0	930.4	908.2	888.2	812.7	746.1	710.6	690.6	681.7	686.2	697.3
30°	886.0	837.2	808.3	783.9	719.5	672.8	641.8	621.8	612.9	612.9	624.0
32.5°	781.7	755.0	728.4	697.3	637.3	606.2	575.1	552.9	544.1	546.3	555.2
35°	650.6	641.8	648.4	619.6	568.5	541.8	510.7	486.3	479.7	481.9	490.8
37.5°	577.4	537.4	561.8	546.3	517.4	481.9	441.9	419.7	408.6	415.3	419.7
40°	530.7	481.9	464.1	479.7	475.2	417.5	381.9	359.7	350.9	353.1	357.5
42.5°	490.8	433.0	393.0	390.8	417.5	364.2	326.4	306.4	295.3	295.3	299.8
45°	453.0	390.8	342.0	304.2	350.9	308.7	273.1	255.4	242.0	242.0	244.3
47.5°	424.1	355.3	297.6	248.7	264.3	253.2	224.3	206.5	193.2	193.2	195.4
50°	397.5	319.8	257.6	208.7	197.6	208.7	182.1	162.1	153.2	151.0	155.4
52.5°	368.6	284.2	219.8	177.6	155.4	157.7	142.1	128.8	117.7	117.7	122.1
55°	339.8	255.4	191.0	151.0	128.8	117.7	113.3	104.4	95.5	95.5	99.9
57.5°	310.9	224.3	162.1	124.4	102.1	93.3	93.3	86.6	79.9	79.9	84.4
60°	284.2	193.2	133.2	102.1	79.9	77.7	79.9	73.3	68.8	68.8	73.3
62.5°	253.2	164.3	108.8	84.4	64.4	62.2	68.8	64.4	60.0	60.0	64.4
65°	215.4	139.9	86.6	64.4	48.9	48.9	57.7	53.3	48.9	48.9	53.3
67.5°	182.1	117.7	66.6	46.6	35.5	37.8	48.9	44.4	42.2	42.2	46.6
70°	151.0	91.0	46.6	28.9	20.0	28.9	37.8	37.8	37.8	37.8	42.2
72.5°	113.3	62.2	26.6	11.1	8.9	20.0	31.1	35.5	33.3	33.3	40.0
75°	73.3	35.5	8.9	0.0	0.0	11.1	24.4	28.9	28.9	26.6	33.3
77.5°	42.2	11.1	0.0	0.0	0.0	0.0	15.5	13.3	11.1	8.9	15.5
80°	11.1	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: P324213
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4	15726.4
2.5°	13856.7	14118.7	14487.3	14878.2	15479.9	15957.4	16425.9	16827.9	16983.3	17047.7
5°	10967.6	11351.8	11891.4	12584.3	13670.1	14647.2	15637.6	16634.7	17067.7	17176.5
7.5°	7869.9	8360.6	9046.8	9915.1	11187.5	12453.2	13836.7	15300.1	15970.7	16139.5
10°	5824.7	6424.3	7210.4	8125.2	9339.9	10641.2	12149.0	13821.1	14587.3	14811.5
12.5°	4132.6	4943.1	5995.7	7108.2	8160.8	9322.2	10847.7	12690.8	13494.7	13736.8
15°	2427.1	3211.0	4456.8	5946.8	7294.7	8471.7	10021.7	12111.3	12997.3	13241.6
17.5°	1392.3	1783.2	2724.7	4385.7	6215.5	7845.5	9761.8	12255.6	13299.3	13525.8
20°	1063.7	1188.0	1570.0	2824.6	4954.2	7230.3	9761.8	13072.8	14358.5	14691.6
22.5°	930.4	1021.5	1176.9	1685.5	3646.3	6570.8	9875.1	14254.2	15935.2	16303.8
25°	826.1	908.2	1041.5	1268.0	2487.1	5786.9	10143.8	15704.2	17791.6	18269.0
27.5°	739.5	817.2	937.1	1110.3	1701.0	4841.0	10505.8	17405.2	19839.0	20221.0
30°	661.7	735.0	843.8	966.0	1312.4	3768.4	10814.4	19008.5	21446.7	21857.6
32.5°	588.5	655.1	752.8	843.8	1074.8	2786.9	10847.7	20278.7	22781.3	23189.9
35°	519.6	579.6	668.4	739.5	890.5	2200.6	10330.3	21380.1	24115.9	24655.5
37.5°	453.0	510.7	588.5	641.8	783.9	1794.3	9539.8	22608.1	25828.0	26327.7
40°	390.8	441.9	521.8	557.4	741.7	1379.0	8680.4	23896.1	27506.8	27964.3
42.5°	333.1	381.9	459.7	528.5	650.6	1030.4	7752.2	25104.1	29016.8	29496.5
45°	277.6	328.7	406.4	559.6	539.6	770.6	6759.6	25905.8	30209.3	30731.2
47.5°	224.3	282.0	388.6	532.9	430.8	566.3	5973.5	26665.2	31113.1	31628.3
50°	179.9	237.6	437.5	475.2	353.1	433.0	5644.8	27344.7	31706.0	32201.2
52.5°	146.6	199.9	413.0	364.2	295.3	357.5	5822.5	28446.1	32254.5	32565.4
55°	122.1	157.7	248.7	253.2	250.9	304.2	6042.3	30027.2	33673.5	33820.0
57.5°	106.6	126.6	173.2	195.4	211.0	270.9	6046.7	32296.7	35869.7	35960.7
60°	91.0	111.0	144.3	157.7	182.1	242.0	5826.9	33089.5	36733.5	37035.5
62.5°	79.9	97.7	119.9	131.0	153.2	217.6	5311.7	31941.4	35547.7	36060.7
65°	71.1	88.8	99.9	111.0	135.5	195.4	4463.4	29645.3	33580.2	34115.4
67.5°	62.2	77.7	88.8	99.9	122.1	173.2	3286.5	26978.3	31321.8	31766.0
70°	55.5	68.8	79.9	88.8	106.6	146.6	1994.1	22892.4	28199.7	28384.0
72.5°	53.3	62.2	73.3	79.9	93.3	128.8	1010.4	16823.4	22543.7	22843.5
75°	46.6	55.5	66.6	71.1	82.2	111.0	410.8	11049.8	16337.1	16819.0
77.5°	37.8	51.1	60.0	64.4	71.1	91.0	208.7	7061.6	11465.1	11775.9
80°	13.3	37.8	51.1	53.3	60.0	66.6	137.7	3866.1	6650.8	6784.0
82.5°	0.0	24.4	40.0	37.8	42.2	51.1	88.8	1838.7	4390.2	4439.0
85°	0.0	11.1	31.1	24.4	17.8	35.5	31.1	401.9	2302.8	2398.3
87.5°	0.0	0.0	2.2	11.1	8.9	13.3	4.4	2.2	208.7	264.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)