

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: P324138

Luminaire Tested: **GAN-SA4D-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324138
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-SA4D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 21132 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

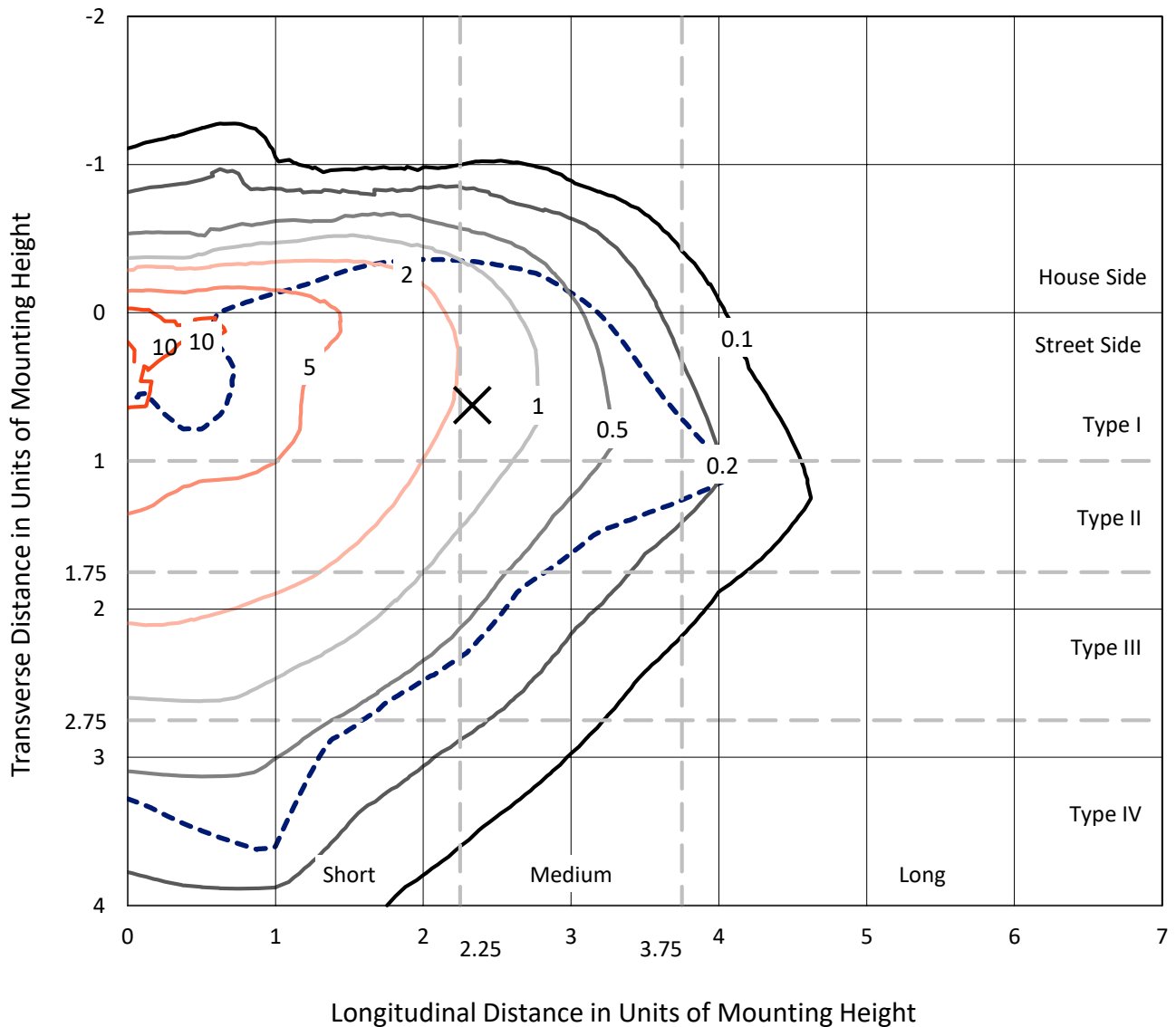
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

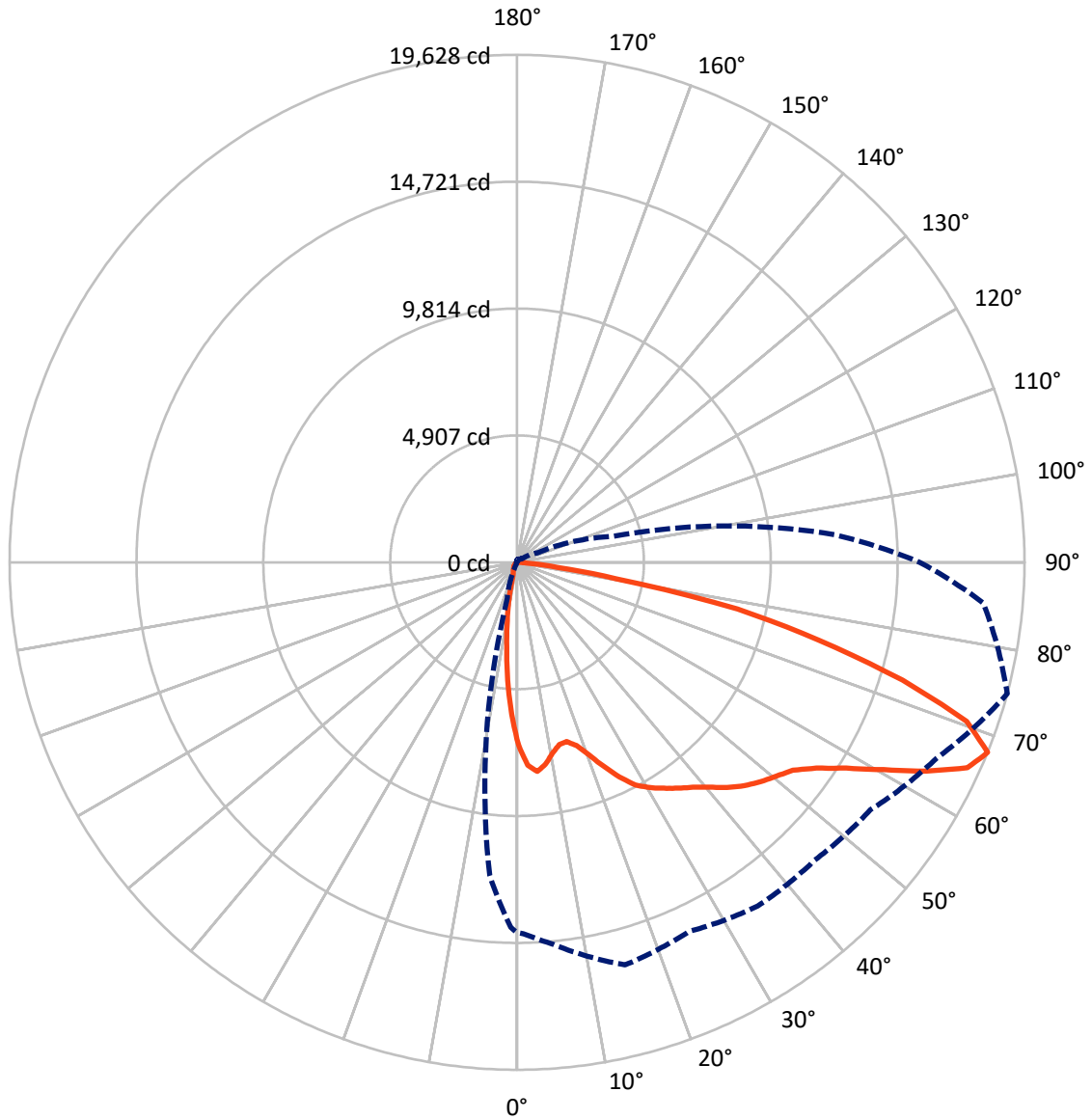
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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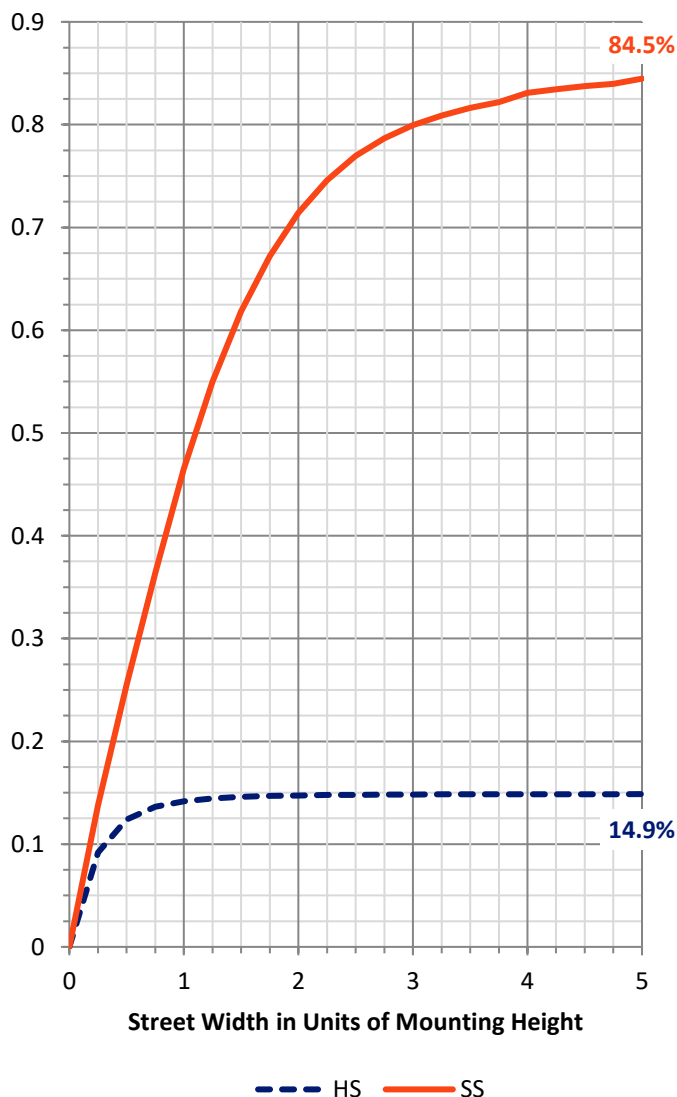
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3171.1	0.0	3171.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17960.9	0.0	17960.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	21132.0	0.0	21132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.8	2.5
10°-20°	1058.9	5.0
20°-30°	1498.0	7.1
30°-40°	2202.5	10.4
40°-50°	3165.7	15.0
50°-60°	4456.5	21.1
60°-70°	5204.7	24.6
70°-80°	2655.3	12.6
80°-90°	352.7	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°	21132.0	100.0
0°-180°	21132.0	100.0

Coefficient of Utilization

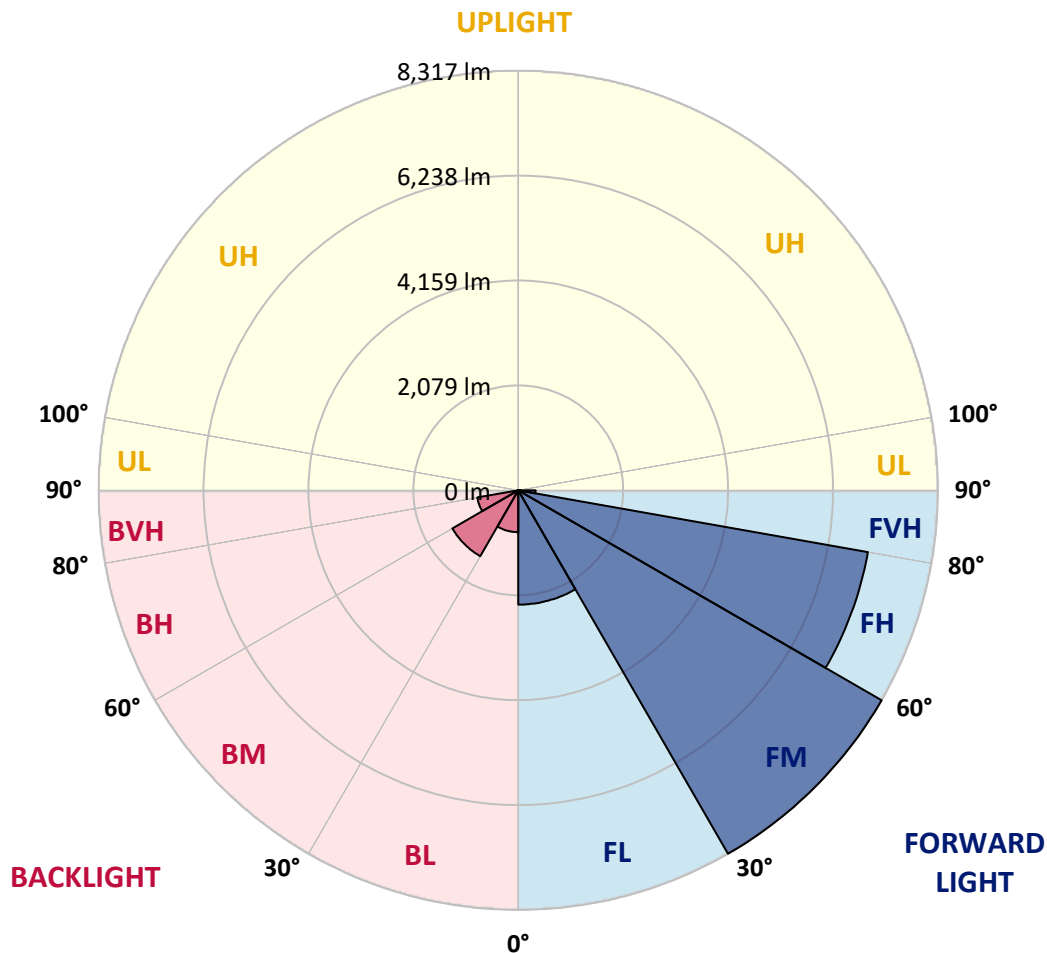


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2265.4	10.7			
FM (30°-60°)	8317.2	39.4			
FH (60°-80°)	7036.3	33.3			G3/7500
FVH (80°-90°)	342.0	1.6			G3/500
BL (0°-30°)	829.3	3.9	B2/1000		
BM (30°-60°)	1507.4	7.1	B2/2500		
BH (60°-80°)	823.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4
2.5°	7685.0	7697.1	7759.1	7903.3	8060.4	8072.5	8178.6	8069.5	8032.4	7856.2	7674.0
5°	7743.1	7789.2	8002.4	8425.8	8793.2	8911.3	8995.4	8781.2	8556.0	8125.5	7666.0
7.5°	7275.6	7352.7	7688.1	8482.9	9139.6	9429.9	9484.9	9149.6	8598.0	7889.3	7198.5
10°	6677.0	6765.1	7169.5	8146.5	9048.5	9546.0	9622.1	9182.6	8389.8	7506.9	6693.0
12.5°	6192.5	6295.6	6709.0	7768.1	8735.1	9285.7	9435.9	9071.5	8209.6	7235.6	6347.6
15°	5969.3	6087.4	6521.8	7523.9	8387.8	8821.2	8945.4	8788.2	8109.5	7192.5	6267.6
17.5°	6097.4	6225.5	6674.0	7544.9	8061.4	8246.6	8346.7	8410.8	8109.5	7451.8	6501.8
20°	6622.9	6761.1	7235.6	7758.1	7791.2	7722.1	7829.2	8054.4	8203.6	7944.3	7064.4
22.5°	7349.7	7511.9	8047.4	8123.5	7659.0	7397.7	7411.8	7765.1	8374.8	8569.0	7845.2
25°	8235.6	8433.8	8978.4	8668.1	7714.1	7204.5	7199.5	7526.9	8541.9	9194.6	8715.1
27.5°	9115.5	9333.8	9812.3	9332.8	7941.3	7169.5	7159.5	7454.8	8705.1	9751.2	9665.1
30°	9853.3	10065.5	10478.0	9814.3	8186.6	7251.6	7203.5	7531.9	8802.2	10112.6	10357.8
32.5°	10453.9	10624.1	10957.5	10145.6	8448.8	7410.8	7306.7	7738.1	8967.4	10417.9	10994.5
35°	11114.6	11293.8	11427.0	10461.0	8743.2	7640.0	7490.8	8065.4	9221.7	10728.2	11692.2
37.5°	11868.4	12046.6	12030.6	10749.3	9116.5	8019.4	7924.3	8584.0	9617.1	11035.6	12471.1
40°	12606.2	12788.4	12658.3	11064.6	9555.0	8645.1	8575.0	9362.8	10146.6	11429.0	13384.0
42.5°	13296.9	13494.1	13215.8	11362.9	10077.6	9433.9	9554.0	10365.9	10809.3	11913.5	14170.8
45°	13853.5	14054.7	13683.3	11653.2	10628.1	10390.9	10752.3	11477.0	11606.2	12322.9	14702.4
47.5°	14257.9	14448.1	14007.7	11943.5	11332.9	11561.1	12190.8	12642.2	12325.9	12678.3	15079.8
50°	14516.2	14664.4	14102.8	12306.9	12257.8	12926.5	13689.3	13909.6	13003.6	12998.6	15538.3
52.5°	14680.4	14747.4	14172.8	12686.3	13222.8	14413.1	15156.9	15225.9	13701.3	13351.0	16155.9
55°	15246.0	15300.0	14669.4	13145.8	14020.7	15715.5	16484.3	16420.2	14491.2	14040.7	16884.7
57.5°	16211.0	16268.0	15695.4	13806.5	14666.4	16520.3	17446.3	17561.4	15417.1	15009.7	17665.5
60°	16695.5	16801.6	16597.4	14643.3	15292.0	17034.8	18102.0	18469.3	16574.4	16287.1	18422.3
62.5°	16256.0	16410.2	16706.5	15571.3	15913.7	17318.1	18306.2	18794.7	17759.6	17775.6	18888.8
65°	15379.1	15502.2	16004.8	16079.8	16274.0	17283.1	17801.6	18340.2	18485.4	19143.0	18863.8
67.5°	14320.0	14366.0	14792.5	16119.9	15751.5	16230.0	16286.1	16684.5	17911.8	19627.6	18106.0
70°	12795.4	12820.4	13192.8	14779.5	13536.2	13641.3	13558.2	13639.3	15399.1	18447.3	16193.0
72.5°	10297.8	10360.9	10890.4	12273.9	9861.3	9558.0	10210.7	10174.7	11859.4	15585.3	12026.6
75°	7581.9	7691.1	8490.9	9886.4	6921.2	6260.6	6737.1	6864.2	8430.8	12055.6	7520.9
77.5°	5308.6	5389.6	6164.5	7267.6	5009.2	4476.7	4304.5	4455.7	5564.8	8721.1	3789.0
80°	3058.2	3088.2	3582.8	4196.4	3375.5	3862.0	3498.7	3602.8	3334.5	3880.1	1629.7
82.5°	2001.1	2006.1	2199.3	2497.6	2102.2	2442.6	1807.9	2311.4	2051.1	1558.6	530.6
85°	1081.1	1087.1	1275.3	1772.9	1190.2	672.7	395.4	811.9	1268.3	357.4	145.2
87.5°	119.1	109.1	384.4	644.7	330.3	61.1	21.0	91.1	203.2	23.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4
2.5°	7580.9	7497.9	7290.6	7071.4	6895.2	6730.0	6563.9	6360.7	6203.5	6171.5	6119.4
5°	7418.8	7155.5	6721.0	6284.6	5933.2	5489.7	5208.5	4989.2	4775.0	4762.0	4718.9
7.5°	6852.2	6505.8	5894.2	5290.5	4796.0	4373.6	3947.1	3661.8	3437.6	3358.5	3311.5
10°	6307.6	5918.2	5154.4	4465.7	4024.2	3650.8	3350.5	3052.2	2781.9	2595.7	2511.6
12.5°	5927.2	5496.8	4654.9	4061.3	3744.9	3390.6	3024.2	2651.8	2340.5	2116.2	1979.1
15°	5780.1	5320.6	4487.7	3901.1	3510.7	3062.2	2593.7	2168.3	1822.9	1619.7	1496.6
17.5°	5955.2	5420.7	4474.7	3705.9	3160.3	2602.7	2085.2	1582.7	1257.3	1103.2	1024.1
20°	6399.7	5739.0	4469.7	3466.6	2743.9	2058.2	1412.5	1041.1	843.9	757.8	720.8
22.5°	7028.4	6145.4	4509.7	3230.4	2310.4	1470.5	975.0	764.8	663.7	617.6	596.6
25°	7837.2	6716.0	4622.8	3016.2	1903.0	1097.1	759.8	640.7	569.6	533.6	518.5
27.5°	8699.1	7372.7	4799.0	2830.0	1571.6	874.9	650.7	548.6	497.5	472.5	458.5
30°	9409.9	8133.5	4977.2	2622.7	1331.4	762.8	595.6	500.5	441.5	425.4	412.4
32.5°	10031.5	8709.1	5103.3	2435.6	1174.2	677.7	538.6	447.5	407.4	376.4	362.4
35°	10675.2	9188.6	5099.3	2304.4	1066.1	613.6	490.5	400.4	352.4	316.3	305.3
37.5°	11371.9	9730.2	5012.2	2192.3	1019.1	562.6	463.5	375.4	327.3	291.3	277.3
40°	12187.8	10298.8	4923.2	2087.2	1006.1	521.5	444.5	355.4	304.3	269.3	255.3
42.5°	12982.6	10811.3	4845.1	2009.1	950.0	520.5	427.4	340.4	286.3	252.3	236.2
45°	13618.3	11288.8	4830.1	1962.1	890.9	538.6	418.4	330.3	272.3	238.2	223.2
47.5°	14146.8	11807.4	4926.2	1929.0	834.9	491.5	440.5	323.3	259.3	226.2	209.2
50°	14775.5	12444.0	5152.4	1875.0	775.8	442.5	504.5	325.3	248.3	214.2	196.2
52.5°	15652.4	13325.0	5484.7	1783.9	694.7	397.4	496.5	327.3	236.2	201.2	183.2
55°	16635.4	14425.1	5842.1	1632.7	581.6	338.4	425.4	313.3	213.2	187.2	170.2
57.5°	17668.5	15423.2	6054.3	1452.5	462.5	292.3	340.4	285.3	188.2	168.2	157.2
60°	17830.7	15802.5	5957.2	1231.3	367.4	254.3	252.3	290.3	168.2	148.2	140.1
62.5°	17427.3	15326.1	5487.7	1034.1	307.3	223.2	207.2	253.3	152.2	132.1	124.1
65°	16651.4	14037.7	4727.0	932.0	285.3	191.2	172.2	178.2	133.1	115.1	108.1
67.5°	15572.3	12317.9	3881.1	873.9	282.3	164.2	147.2	135.1	115.1	100.1	94.1
70°	13366.0	10261.7	3096.2	841.9	274.3	138.1	124.1	110.1	96.1	85.1	80.1
72.5°	9837.3	7271.6	2408.5	806.8	276.3	110.1	108.1	91.1	77.1	66.1	64.1
75°	5684.0	4154.4	1579.7	653.7	263.3	85.1	90.1	64.1	54.1	46.0	46.0
77.5°	3029.2	2533.7	601.6	272.3	96.1	54.1	51.1	38.0	34.0	28.0	27.0
80°	1320.4	1115.2	181.2	76.1	53.1	29.0	19.0	17.0	15.0	12.0	11.0
82.5°	467.5	403.4	59.1	37.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	106.1	76.1	0.0	9.0	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°	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4
2.5°	6013.3	5991.3	5861.1	5866.1	5889.2	5922.2	5844.1	5880.2	5977.3	6070.4	6105.4
5°	4649.9	4654.9	4575.8	4624.8	4668.9	4698.9	4572.8	4574.8	4651.9	4757.0	4812.0
7.5°	3276.4	3268.4	3272.4	3389.5	3472.6	3412.6	3459.6	3296.5	3306.5	3381.5	3325.5
10°	2435.6	2325.4	2263.4	2351.5	2442.6	2409.5	2328.4	2275.4	2312.4	2395.5	2389.5
12.5°	1914.0	1755.8	1662.7	1599.7	1674.8	1612.7	1610.7	1564.6	1514.6	1523.6	1656.7
15°	1439.5	1324.4	1214.3	1113.2	1111.2	1090.1	983.0	862.9	852.9	858.9	928.0
17.5°	990.0	951.0	905.9	818.9	795.8	707.7	603.6	555.6	531.6	542.6	565.6
20°	695.7	680.7	685.7	638.7	605.6	521.5	460.5	441.5	437.5	448.5	459.5
22.5°	576.6	549.6	546.6	525.6	492.5	431.5	398.4	387.4	382.4	392.4	400.4
25°	504.5	477.5	466.5	453.5	418.4	376.4	356.4	346.4	341.4	347.4	352.4
27.5°	444.5	419.4	409.4	400.4	366.4	336.4	320.3	311.3	307.3	309.3	314.3
30°	399.4	377.4	364.4	353.4	324.3	303.3	289.3	280.3	276.3	276.3	281.3
32.5°	352.4	340.4	328.3	314.3	287.3	273.3	259.3	249.3	245.3	246.3	250.3
35°	293.3	289.3	292.3	279.3	256.3	244.3	230.2	219.2	216.2	217.2	221.2
37.5°	260.3	242.3	253.3	246.3	233.2	217.2	199.2	189.2	184.2	187.2	189.2
40°	239.3	217.2	209.2	216.2	214.2	188.2	172.2	162.2	158.2	159.2	161.2
42.5°	221.2	195.2	177.2	176.2	188.2	164.2	147.2	138.1	133.1	133.1	135.1
45°	204.2	176.2	154.2	137.1	158.2	139.1	123.1	115.1	109.1	109.1	110.1
47.5°	191.2	160.2	134.1	112.1	119.1	114.1	101.1	93.1	87.1	87.1	88.1
50°	179.2	144.2	116.1	94.1	89.1	94.1	82.1	73.1	69.1	68.1	70.1
52.5°	166.2	128.1	99.1	80.1	70.1	71.1	64.1	58.1	53.1	53.1	55.1
55°	153.2	115.1	86.1	68.1	58.1	53.1	51.1	47.0	43.0	43.0	45.0
57.5°	140.1	101.1	73.1	56.1	46.0	42.0	42.0	39.0	36.0	36.0	38.0
60°	128.1	87.1	60.1	46.0	36.0	35.0	36.0	33.0	31.0	31.0	33.0
62.5°	114.1	74.1	49.1	38.0	29.0	28.0	31.0	29.0	27.0	27.0	29.0
65°	97.1	63.1	39.0	29.0	22.0	22.0	26.0	24.0	22.0	22.0	24.0
67.5°	82.1	53.1	30.0	21.0	16.0	17.0	22.0	20.0	19.0	19.0	21.0
70°	68.1	41.0	21.0	13.0	9.0	13.0	17.0	17.0	17.0	17.0	19.0
72.5°	51.1	28.0	12.0	5.0	4.0	9.0	14.0	16.0	15.0	15.0	18.0
75°	33.0	16.0	4.0	0.0	0.0	5.0	11.0	13.0	13.0	12.0	15.0
77.5°	19.0	5.0	0.0	0.0	0.0	0.0	7.0	6.0	5.0	4.0	7.0
80°	5.0	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: P324138
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4	7089.4
2.5°	6246.5	6364.7	6530.8	6707.0	6978.3	7193.5	7404.8	7585.9	7656.0	7685.0
5°	4944.2	5117.4	5360.6	5672.9	6162.5	6602.9	7049.4	7498.9	7694.1	7743.1
7.5°	3547.7	3768.9	4078.3	4469.7	5043.3	5613.9	6237.5	6897.2	7199.5	7275.6
10°	2625.7	2896.0	3250.4	3662.8	4210.4	4797.0	5476.7	6230.5	6575.9	6677.0
12.5°	1863.0	2228.3	2702.8	3204.4	3678.9	4202.4	4890.1	5721.0	6083.4	6192.5
15°	1094.1	1447.5	2009.1	2680.8	3288.4	3819.0	4517.7	5459.7	5859.1	5969.3
17.5°	627.7	803.8	1228.3	1977.1	2801.9	3536.7	4400.6	5524.8	5995.3	6097.4
20°	479.5	535.6	707.7	1273.3	2233.3	3259.4	4400.6	5893.2	6472.8	6622.9
22.5°	419.4	460.5	530.6	759.8	1643.7	2962.1	4451.7	6425.7	7183.5	7349.7
25°	372.4	409.4	469.5	571.6	1121.2	2608.7	4572.8	7079.4	8020.4	8235.6
27.5°	333.3	368.4	422.4	500.5	766.8	2182.3	4736.0	7846.2	8943.4	9115.5
30°	298.3	331.3	380.4	435.5	591.6	1698.8	4875.1	8569.0	9668.1	9853.3
32.5°	265.3	295.3	339.4	380.4	484.5	1256.3	4890.1	9141.6	10269.8	10453.9
35°	234.2	261.3	301.3	333.3	401.4	992.0	4656.9	9638.1	10871.4	11114.6
37.5°	204.2	230.2	265.3	289.3	353.4	808.8	4300.5	10191.7	11643.2	11868.4
40°	176.2	199.2	235.2	251.3	334.4	621.7	3913.1	10772.3	12400.0	12606.2
42.5°	150.2	172.2	207.2	238.2	293.3	464.5	3494.7	11316.9	13080.7	13296.9
45°	125.1	148.2	183.2	252.3	243.3	347.4	3047.2	11678.2	13618.3	13853.5
47.5°	101.1	127.1	175.2	240.3	194.2	255.3	2692.8	12020.6	14025.7	14257.9
50°	81.1	107.1	197.2	214.2	159.2	195.2	2544.7	12326.9	14293.0	14516.2
52.5°	66.1	90.1	186.2	164.2	133.1	161.2	2624.7	12823.4	14540.2	14680.4
55°	55.1	71.1	112.1	114.1	113.1	137.1	2723.9	13536.2	15179.9	15246.0
57.5°	48.1	57.1	78.1	88.1	95.1	122.1	2725.9	14559.2	16169.9	16211.0
60°	41.0	50.1	65.1	71.1	82.1	109.1	2626.8	14916.6	16559.3	16695.5
62.5°	36.0	44.0	54.1	59.1	69.1	98.1	2394.5	14399.1	16024.8	16256.0
65°	32.0	40.0	45.0	50.1	61.1	88.1	2012.1	13364.0	15137.9	15379.1
67.5°	28.0	35.0	40.0	45.0	55.1	78.1	1481.6	12161.7	14119.8	14320.0
70°	25.0	31.0	36.0	40.0	48.1	66.1	898.9	10319.8	12712.3	12795.4
72.5°	24.0	28.0	33.0	36.0	42.0	58.1	455.5	7583.9	10162.6	10297.8
75°	21.0	25.0	30.0	32.0	37.0	50.1	185.2	4981.2	7364.7	7581.9
77.5°	17.0	23.0	27.0	29.0	32.0	41.0	94.1	3183.3	5168.4	5308.6
80°	6.0	17.0	23.0	24.0	27.0	30.0	62.1	1742.8	2998.1	3058.2
82.5°	0.0	11.0	18.0	17.0	19.0	23.0	40.0	828.9	1979.1	2001.1
85°	0.0	5.0	14.0	11.0	8.0	16.0	14.0	181.2	1038.1	1081.1
87.5°	0.0	0.0	1.0	5.0	4.0	6.0	2.0	1.0	94.1	119.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)