

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: P324458

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21129 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

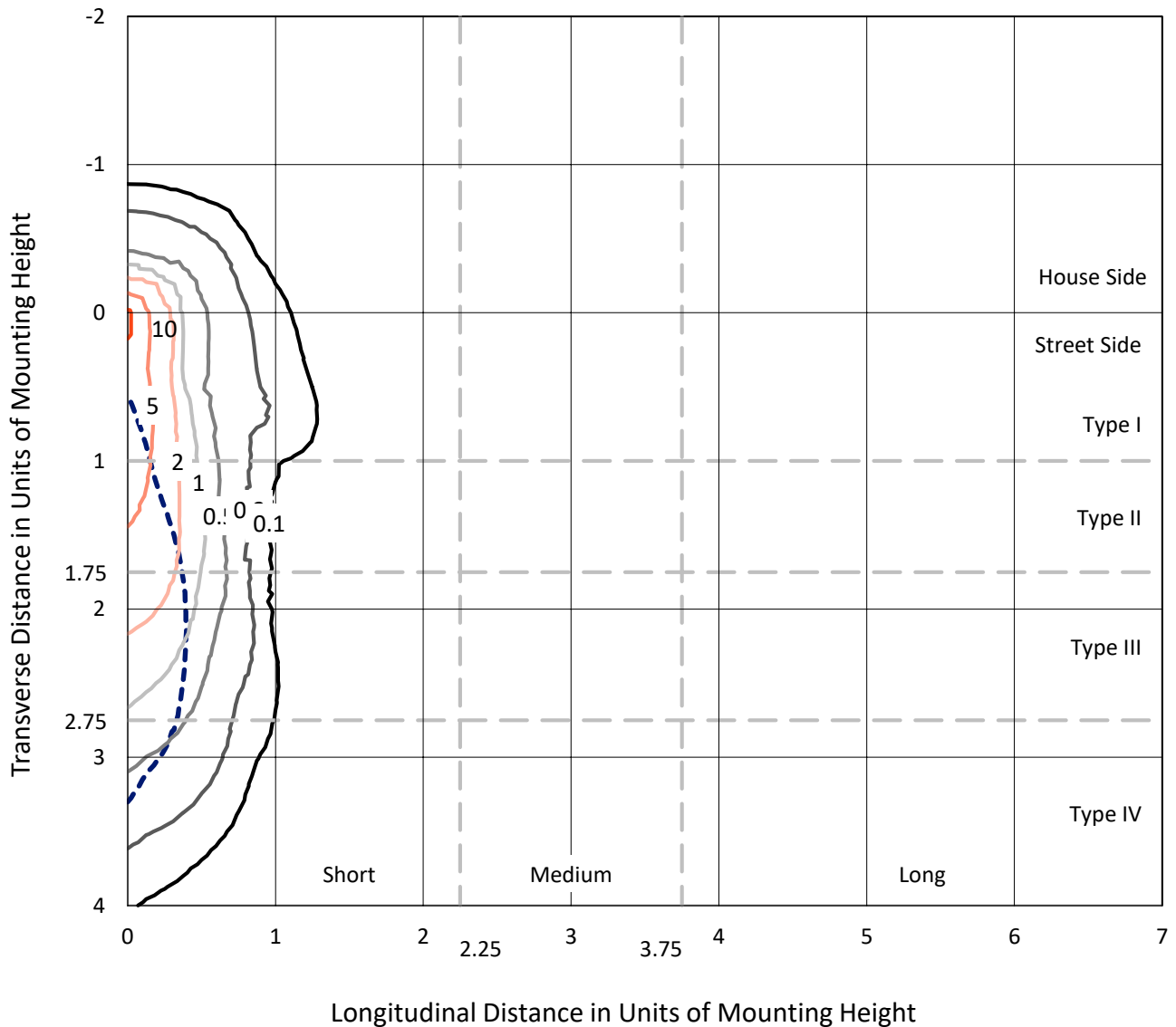
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

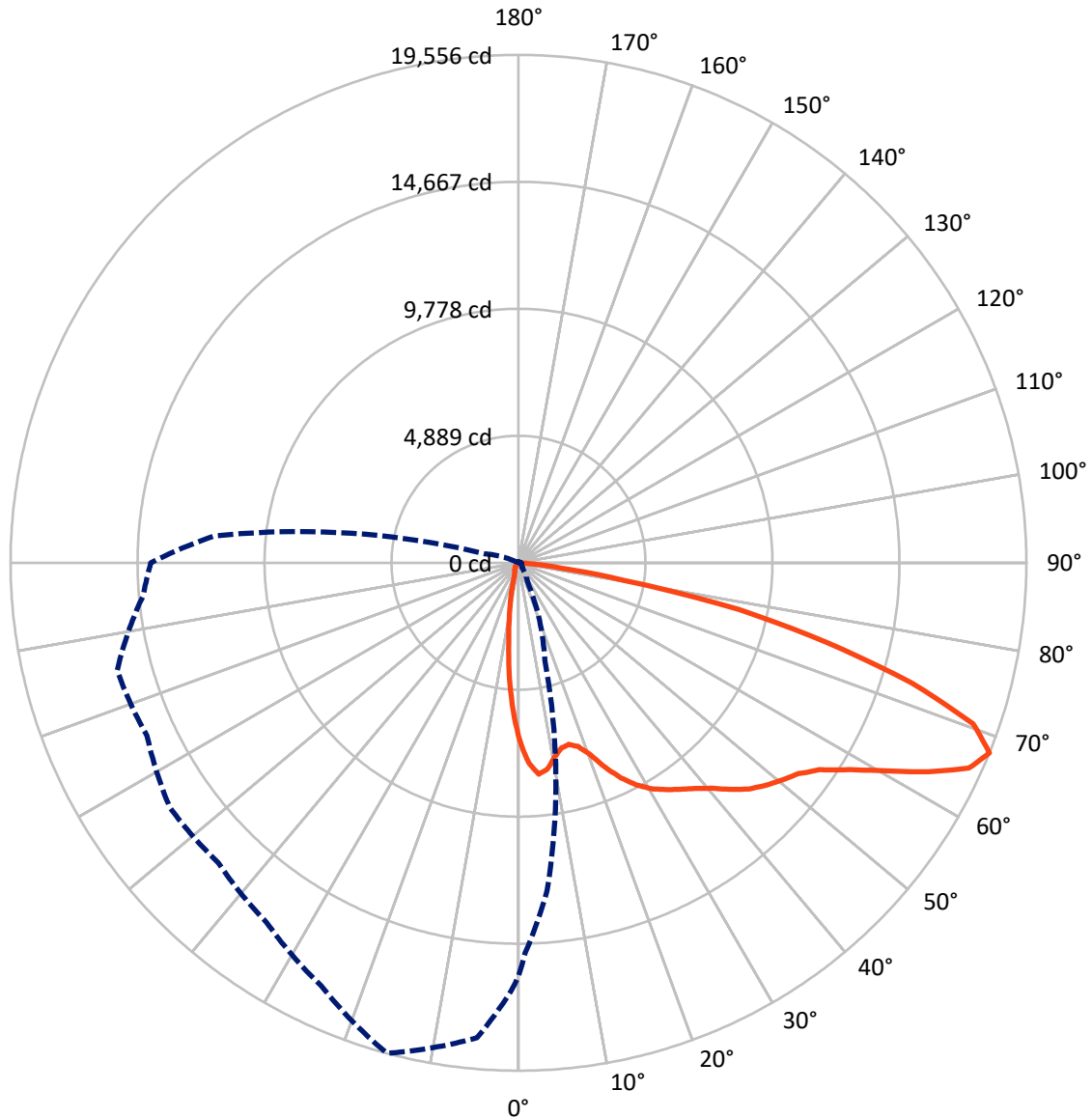
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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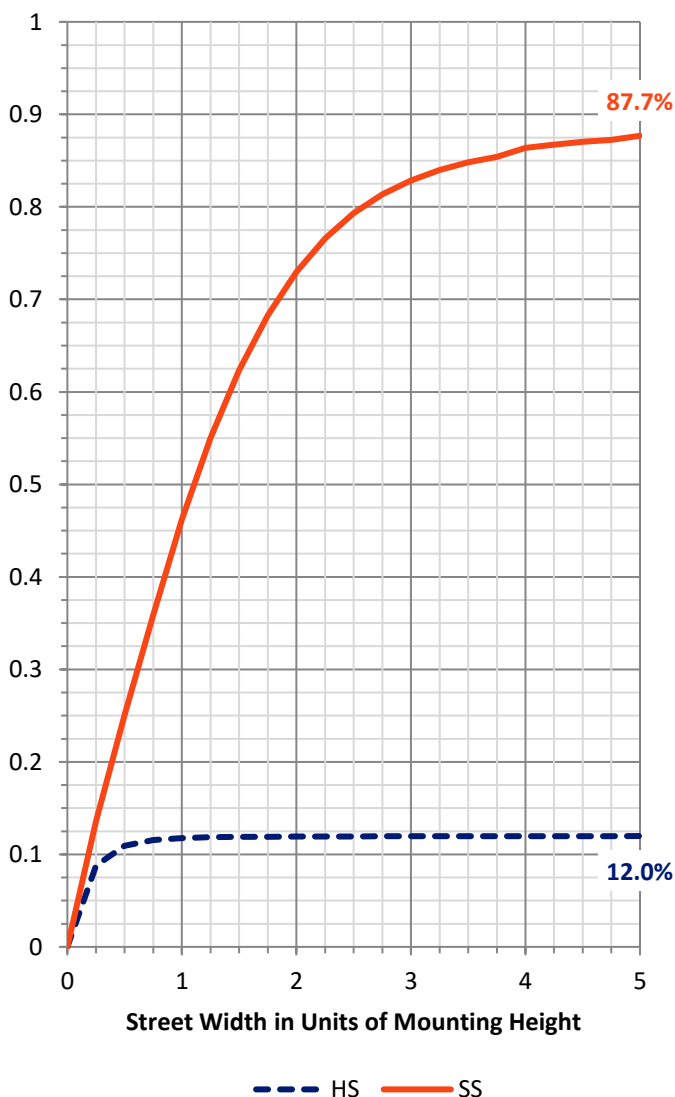
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.3	0.0	2557.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18571.7	0.0	18571.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	21129.0	0.0	21129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.2	2.5
10°-20°	1051.5	5.0
20°-30°	1493.1	7.1
30°-40°	2205.4	10.4
40°-50°	3180.6	15.1
50°-60°	4464.9	21.1
60°-70°	5204.8	24.6
70°-80°	2660.8	12.6
80°-90°	339.8	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°	21129.0	100.0
0°-180°	21129.0	100.0

Coefficient of Utilization

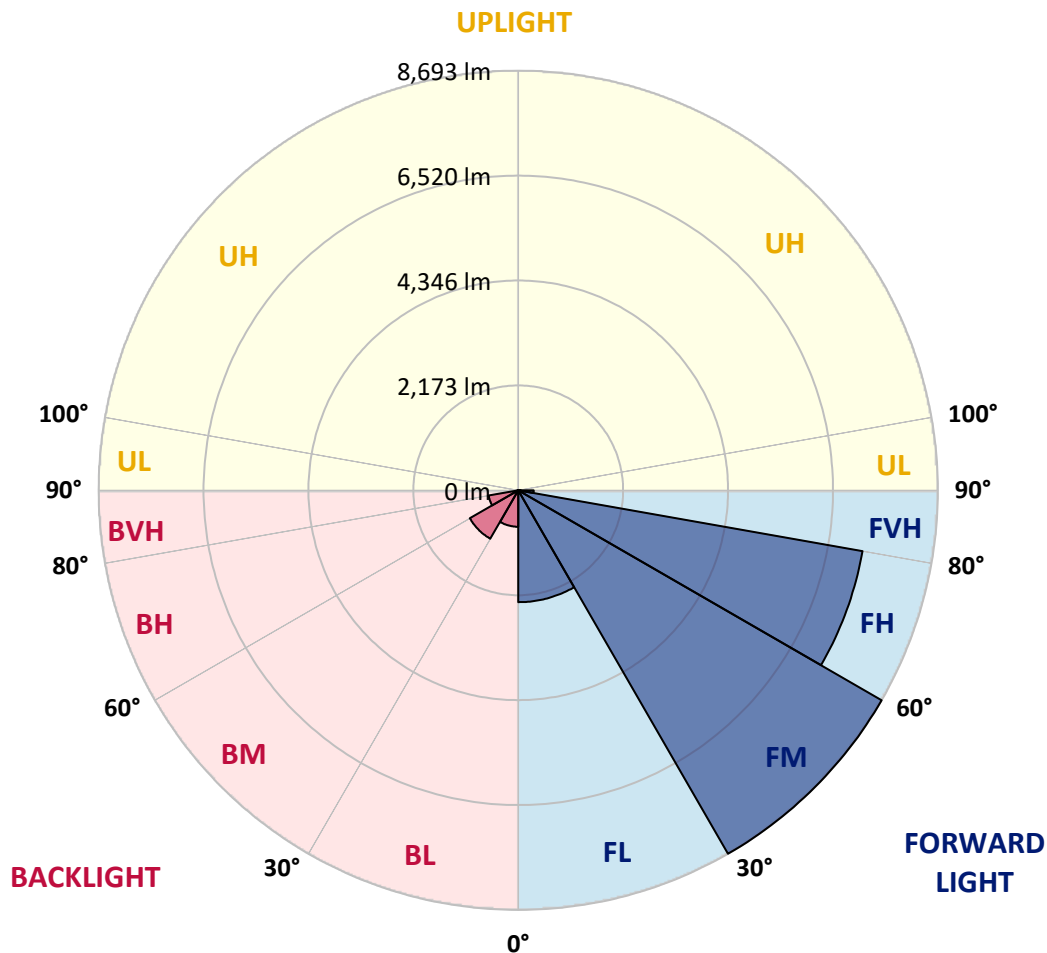


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.4	11.0			
FM (30°-60°)	8692.8	41.1			
FH (60°-80°)	7242.3	34.3			G3/7500
FVH (80°-90°)	319.2	1.5			G3/500
BL (0°-30°)	755.3	3.6	B2/1000		
BM (30°-60°)	1158.0	5.5	B2/2500		
BH (60°-80°)	623.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	20.6	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7
2.5°	7536.4	7478.3	7414.3	7205.0	7010.9	6788.6	6607.5	6481.3	6323.2	6118.0	6065.9
5°	7482.3	7420.3	7219.1	6753.6	6346.2	5949.8	5567.4	5343.2	5065.0	4782.7	4712.6
7.5°	6938.8	6873.7	6583.4	5945.8	5397.3	4824.7	4328.2	4020.9	3706.6	3448.4	3311.2
10°	6373.2	6302.2	5975.8	5202.1	4526.4	4008.9	3644.6	3351.3	3054.0	2777.7	2557.5
12.5°	5983.9	5890.8	5536.4	4659.6	4071.0	3719.6	3379.3	3028.0	2625.6	2329.3	2087.0
15°	5820.7	5714.6	5340.2	4450.4	3909.8	3497.4	3054.0	2622.6	2151.1	1811.8	1589.6
17.5°	5946.8	5808.7	5407.3	4436.3	3707.6	3146.1	2585.5	2079.0	1567.5	1224.2	1066.0
20°	6375.2	6194.1	5684.6	4432.3	3462.4	2728.7	2018.0	1445.4	1033.0	830.8	747.7
22.5°	7049.9	6810.7	6083.0	4464.4	3209.1	2290.2	1457.4	982.0	775.8	670.7	621.6
25°	7864.7	7587.4	6656.5	4577.5	2986.9	1863.8	1059.0	775.8	654.6	577.6	536.5
27.5°	8639.5	8414.2	7381.2	4740.6	2814.8	1519.5	859.8	657.6	559.5	508.5	475.5
30°	9413.2	9129.9	8124.9	4934.8	2607.6	1286.3	755.7	599.6	501.5	447.4	426.4
32.5°	9975.8	9740.5	8707.5	5075.0	2386.3	1134.1	675.7	548.5	468.5	413.4	382.4
35°	10637.4	10371.1	9207.0	5106.0	2244.2	1038.0	607.6	493.5	406.4	357.3	324.3
37.5°	11352.1	11020.8	9783.6	5037.9	2133.1	991.0	556.5	468.5	379.4	329.3	294.3
40°	12142.9	11768.5	10337.1	4939.8	2024.0	975.0	517.5	449.4	358.4	307.3	271.3
42.5°	12975.7	12534.3	10816.6	4836.7	1954.9	919.9	513.5	430.4	342.3	287.3	251.2
45°	13675.4	13227.9	11309.1	4802.7	1905.9	859.8	530.5	417.4	331.3	271.3	236.2
47.5°	14232.9	13809.5	11813.6	4878.8	1877.8	804.8	483.5	434.4	325.3	257.3	223.2
50°	14898.6	14419.1	12524.3	5106.0	1836.8	749.7	437.4	497.5	325.3	248.2	212.2
52.5°	15733.4	15258.9	13317.0	5458.3	1754.7	673.7	393.4	498.5	328.3	236.2	198.2
55°	16783.4	16439.1	14449.1	5844.7	1623.6	561.5	340.3	428.4	316.3	214.2	185.2
57.5°	17790.4	17509.1	15481.1	6109.0	1448.4	438.4	296.3	345.3	289.3	188.2	165.2
59°	18065.7	17758.4	15859.5	6121.0	1317.3	382.4	274.3	285.3	283.3	176.2	153.1
60°	18065.7	17739.4	15968.6	6056.9	1222.2	351.3	260.3	254.2	295.3	168.2	146.1
62.5°	17738.4	17279.9	15614.3	5623.5	997.0	299.3	227.2	210.2	265.3	151.1	129.1
65°	17057.7	16390.0	14407.1	4839.7	888.9	274.3	196.2	172.2	184.2	133.1	113.1
67.5°	15922.6	15017.7	12666.4	3909.8	845.8	267.3	169.2	146.1	139.1	114.1	99.1
70°	13923.6	12919.6	10553.3	3074.0	808.8	264.3	142.1	123.1	112.1	96.1	84.1
72.5°	10133.9	9086.9	7492.3	2403.4	786.8	270.3	114.1	103.1	92.1	75.1	65.1
75°	5796.7	5111.0	4211.1	1587.6	670.7	258.3	88.1	86.1	66.1	54.1	45.0
77.5°	2994.9	2903.8	2523.5	609.6	321.3	113.1	58.1	50.0	39.0	33.0	27.0
80°	1292.3	1278.3	1106.1	176.2	85.1	63.1	33.0	21.0	18.0	14.0	11.0
82.5°	446.4	446.4	393.4	59.1	38.0	31.0	4.0	0.0	0.0	0.0	0.0
85°	90.1	101.1	71.1	0.0	13.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7
2.5°	6002.9	5881.8	5873.7	5797.7	5702.6	5659.5	5634.5	5678.6	5732.6	5738.6	5819.7
5°	4659.6	4532.4	4585.5	4450.4	4477.4	4450.4	4406.3	4414.3	4438.3	4363.3	4456.4
7.5°	3272.2	3176.1	3237.2	3201.1	3249.2	3268.2	3241.2	3201.1	3083.0	3069.0	3150.1
10°	2466.4	2357.3	2292.2	2224.2	2239.2	2270.2	2260.2	2231.2	2156.1	2160.1	2238.2
12.5°	1981.9	1859.8	1730.7	1563.5	1522.5	1545.5	1522.5	1505.5	1433.4	1439.4	1508.5
15°	1503.5	1403.4	1268.2	1134.1	1061.0	1068.0	1004.0	958.9	913.9	859.8	901.9
17.5°	1015.0	953.9	913.9	873.9	786.8	766.8	685.7	598.6	564.6	539.5	557.5
20°	718.7	685.7	669.7	667.7	617.6	592.6	513.5	459.4	442.4	437.4	448.4
22.5°	600.6	576.6	553.5	540.5	515.5	486.5	426.4	399.4	387.4	381.4	389.4
25°	522.5	504.5	480.5	458.4	448.4	417.4	374.4	354.3	346.3	340.3	344.3
27.5°	464.5	448.4	420.4	406.4	398.4	371.4	334.3	318.3	311.3	309.3	308.3
30°	418.4	403.4	377.4	361.4	347.3	323.3	301.3	285.3	278.3	276.3	274.3
32.5°	372.4	360.4	343.3	327.3	312.3	290.3	271.3	258.3	247.2	245.2	244.2
35°	314.3	302.3	293.3	292.3	278.3	257.3	243.2	226.2	217.2	214.2	215.2
37.5°	279.3	263.3	243.2	250.2	246.2	231.2	212.2	195.2	186.2	184.2	184.2
40°	257.3	240.2	217.2	205.2	217.2	214.2	184.2	167.2	158.2	157.2	155.2
42.5°	236.2	219.2	193.2	173.2	179.2	188.2	159.2	143.1	134.1	132.1	129.1
45°	221.2	203.2	174.2	151.1	139.1	158.2	136.1	116.1	111.1	107.1	105.1
47.5°	207.2	190.2	157.2	131.1	111.1	114.1	109.1	95.1	89.1	85.1	84.1
50°	195.2	177.2	142.1	112.1	92.1	84.1	88.1	75.1	70.1	66.1	64.1
52.5°	181.2	164.2	126.1	97.1	77.1	66.1	67.1	59.1	54.1	51.0	50.0
55°	170.2	153.1	113.1	85.1	68.1	54.1	48.0	46.0	43.0	41.0	40.0
57.5°	155.2	139.1	100.1	72.1	58.1	44.0	37.0	37.0	36.0	34.0	33.0
59°	146.1	132.1	92.1	65.1	53.1	38.0	33.0	34.0	33.0	31.0	30.0
60°	139.1	126.1	86.1	60.1	50.0	35.0	30.0	32.0	31.0	29.0	28.0
62.5°	123.1	114.1	74.1	50.0	44.0	28.0	25.0	27.0	27.0	26.0	25.0
65°	108.1	98.1	63.1	42.0	41.0	24.0	20.0	24.0	25.0	23.0	21.0
67.5°	94.1	84.1	55.1	34.0	38.0	19.0	15.0	20.0	27.0	21.0	19.0
70°	80.1	70.1	43.0	27.0	40.0	13.0	12.0	18.0	32.0	23.0	18.0
72.5°	62.1	54.1	30.0	20.0	43.0	9.0	9.0	15.0	36.0	25.0	17.0
75°	43.0	35.0	18.0	12.0	35.0	6.0	6.0	14.0	34.0	23.0	16.0
77.5°	25.0	19.0	6.0	1.0	18.0	0.0	1.0	10.0	24.0	14.0	7.0
80°	9.0	4.0	0.0	0.0	11.0	0.0	0.0	0.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7
2.5°	5840.7	5975.8	6097.0	6280.1	6497.4	6747.6	6962.8	7194.0	7411.2	7501.3	7563.4
5°	4475.4	4642.5	4837.7	5107.0	5465.3	5906.8	6320.2	6787.6	7290.1	7541.4	7777.6
7.5°	3164.1	3334.3	3576.5	3862.8	4296.2	4821.7	5362.2	6007.9	6688.5	7085.9	7477.3
10°	2275.2	2484.4	2710.7	3102.0	3542.5	4041.0	4597.5	5318.2	6076.9	6517.4	6988.8
12.5°	1548.5	1786.7	2129.1	2567.5	3085.0	3573.5	4057.0	4744.6	5625.5	6061.9	6567.4
15°	928.9	1061.0	1423.4	1930.9	2565.5	3174.1	3703.6	4393.3	5332.2	5866.7	6392.3
17.5°	572.6	633.6	830.8	1247.2	1913.9	2683.6	3409.3	4274.2	5374.3	6024.9	6587.4
20°	456.4	480.5	543.5	736.7	1268.2	2143.1	3078.0	4250.2	5717.6	6518.4	7122.0
22.5°	396.4	419.4	461.5	535.5	797.8	1604.6	2763.7	4272.2	6210.1	7258.1	7962.8
25°	349.3	369.4	409.4	470.5	584.6	1130.1	2427.4	4370.3	6851.7	8176.0	8924.7
27.5°	312.3	329.3	366.4	422.4	501.5	788.8	2046.0	4489.4	7612.4	9114.9	9853.6
30°	278.3	293.3	326.3	378.4	435.4	606.6	1627.6	4570.5	8374.2	9853.6	10517.3
32.5°	249.2	260.3	290.3	334.3	378.4	483.5	1237.2	4557.5	8939.7	10468.2	10994.8
35°	219.2	230.2	256.3	294.3	329.3	399.4	973.0	4314.2	9432.2	11105.9	11541.3
37.5°	186.2	200.2	225.2	259.3	283.3	351.3	786.8	4020.9	9931.7	11834.6	12150.9
40°	158.2	172.2	194.2	231.2	246.2	333.3	604.6	3663.6	10493.3	12649.4	12819.5
42.5°	131.1	144.1	167.2	199.2	232.2	287.3	447.4	3255.2	11032.8	13346.1	13429.1
45°	106.1	119.1	143.1	175.2	248.2	238.2	346.3	2817.8	11468.2	13925.6	13952.6
47.5°	84.1	96.1	121.1	165.2	231.2	190.2	247.2	2474.4	11833.6	14378.1	14307.0
50°	65.1	75.1	101.1	189.2	202.2	157.2	187.2	2360.3	12160.9	14658.3	14474.2
52.5°	51.0	60.1	83.1	177.2	157.2	130.1	157.2	2467.4	12609.3	14890.6	14568.3
55°	41.0	50.0	65.1	101.1	107.1	110.1	134.1	2567.5	13383.1	15435.1	15123.8
57.5°	34.0	43.0	53.1	71.1	81.1	93.1	119.1	2578.5	14295.0	16340.0	16045.7
59°	31.0	39.0	48.0	63.1	71.1	85.1	112.1	2518.5	14616.3	16669.3	16522.2
60°	29.0	37.0	45.0	58.1	66.1	80.1	108.1	2461.4	14630.3	16657.3	16725.4
62.5°	25.0	33.0	40.0	49.0	56.1	68.1	97.1	2250.2	14037.7	16111.8	16603.2
65°	22.0	29.0	36.0	42.0	48.0	61.1	88.1	1864.8	13025.7	15231.9	15767.4
67.5°	20.0	25.0	33.0	37.0	43.0	54.1	78.1	1329.3	11761.5	14155.8	14503.2
70°	18.0	24.0	30.0	34.0	39.0	47.0	67.1	763.7	9931.7	12580.3	12827.5
72.5°	17.0	23.0	27.0	32.0	35.0	42.0	61.1	359.4	7272.1	10077.9	10723.5
75°	15.0	21.0	25.0	30.0	33.0	38.0	52.1	172.2	4836.7	7293.1	8026.9
77.5°	9.0	17.0	23.0	27.0	29.0	33.0	43.0	99.1	3087.0	5047.9	5945.8
80°	0.0	6.0	17.0	23.0	25.0	28.0	33.0	78.1	1651.6	2883.8	3461.4
82.5°	0.0	0.0	12.0	18.0	17.0	19.0	25.0	49.0	744.7	1884.8	2124.1
85°	0.0	0.0	4.0	14.0	12.0	9.0	17.0	17.0	163.2	953.9	1190.2
87.5°	0.0	0.0	0.0	1.0	6.0	4.0	7.0	2.0	1.0	71.1	288.3
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: P324458
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7	6882.7
2.5°	7780.6	7854.7	7979.8	8038.9	8009.8	7886.7	7739.6	7589.4	7501.3	7536.4
5°	8259.1	8640.5	8860.7	8933.7	8811.6	8535.3	8174.0	7697.5	7528.4	7482.3
7.5°	8259.1	8976.8	9431.2	9511.3	9239.0	8697.5	8019.8	7276.1	7028.9	6938.8
10°	7968.8	8945.8	9579.4	9706.5	9326.1	8516.3	7608.4	6759.6	6466.3	6373.2
12.5°	7641.5	8693.5	9361.2	9536.3	9224.0	8336.2	7323.2	6410.3	6064.9	5983.9
15°	7440.3	8383.2	8935.7	9062.9	8930.7	8231.1	7255.1	6305.2	5898.8	5820.7
17.5°	7512.3	8143.0	8342.2	8416.2	8505.3	8194.0	7440.3	6535.4	6020.9	5946.8
20°	7783.6	7889.7	7786.6	7879.7	8119.9	8230.1	7881.7	7091.9	6474.3	6375.2
22.5°	8244.1	7758.6	7469.3	7506.3	7798.6	8349.2	8556.4	7886.7	7174.0	7049.9
25°	8780.6	7864.7	7293.1	7260.1	7560.4	8506.3	9173.0	8751.6	8001.8	7864.7
27.5°	9455.2	8102.9	7257.1	7224.1	7477.3	8653.5	9685.5	9606.4	8873.7	8639.5
30°	9975.8	8337.2	7364.2	7288.1	7560.4	8755.6	10096.9	10332.1	9568.4	9413.2
32.5°	10349.1	8613.4	7538.4	7428.3	7794.6	8931.7	10414.2	10996.8	10211.0	9975.8
35°	10633.4	8913.7	7819.6	7638.5	8116.9	9199.0	10711.5	11704.4	10894.7	10637.4
37.5°	10899.7	9335.1	8259.1	8042.9	8622.4	9629.4	11025.8	12507.2	11659.4	11352.1
40°	11271.0	9812.6	8936.7	8744.6	9472.3	10216.0	11418.2	13344.1	12529.3	12142.9
42.5°	11642.4	10325.1	9630.4	9682.5	10532.3	10928.7	11924.7	14228.9	13388.1	12975.7
45°	11981.7	10853.6	10618.4	10858.6	11516.3	11710.5	12428.2	14740.4	14073.8	13675.4
47.5°	12284.0	11514.3	11600.3	12240.0	12635.4	12418.1	12804.5	15181.9	14584.3	14232.9
50°	12635.4	12369.1	12894.6	13799.5	13923.6	13058.8	13146.9	15704.4	15180.8	14898.6
52.5°	13019.7	13270.0	14328.0	15125.8	15085.8	13754.5	13491.2	16289.9	15998.6	15733.4
55°	13456.2	13997.7	15590.3	16367.0	16333.0	14531.2	14061.8	17013.6	17023.7	16783.4
57.5°	14103.8	14624.3	16447.1	17371.0	17428.0	15428.1	15028.7	17824.4	17950.6	17790.4
59°	14568.3	15030.7	16786.4	17790.4	18022.6	16121.8	15735.4	18294.9	18211.8	18065.7
60°	14912.6	15289.0	16954.6	18009.6	18368.0	16592.2	16256.9	18571.2	18242.8	18065.7
62.5°	15764.4	15851.5	17257.9	18257.9	18765.4	17637.3	17724.3	19041.6	18027.6	17738.4
65°	16161.8	16206.9	17253.9	17813.4	18381.0	18451.0	19055.6	19055.6	17502.1	17057.7
67.5°	15995.6	15778.4	16398.0	16340.0	16906.5	17967.6	19556.1	18357.0	16497.1	15922.6
70°	14644.3	13808.5	13533.2	13558.3	13991.7	15628.3	18565.2	16300.9	14595.3	13923.6
72.5°	12184.9	10180.0	9500.3	10276.1	10389.2	12010.7	15821.5	12276.0	10763.5	10133.9
75°	9800.6	7176.0	6070.9	6889.7	7081.9	8789.6	12239.0	7645.5	6287.1	5796.7
77.5°	7040.9	5151.0	4356.3	4299.2	4547.4	5574.5	8684.5	3847.8	3209.1	2994.9
80°	3999.9	3390.3	3650.6	3444.4	3569.5	3485.4	4126.0	1687.7	1382.4	1292.3
82.5°	2414.4	2004.0	2170.1	1806.8	2286.2	1990.9	1589.6	540.5	469.5	446.4
85°	1570.5	1095.1	570.6	382.4	787.8	1272.2	355.3	147.1	113.1	90.1
87.5°	541.5	279.3	28.0	12.0	84.1	237.2	13.0	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

(END OF REPORT)