

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: McGRAW-EDISON

Report Number: P529875

Luminaire Tested: **GALN-SA5A-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12661 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

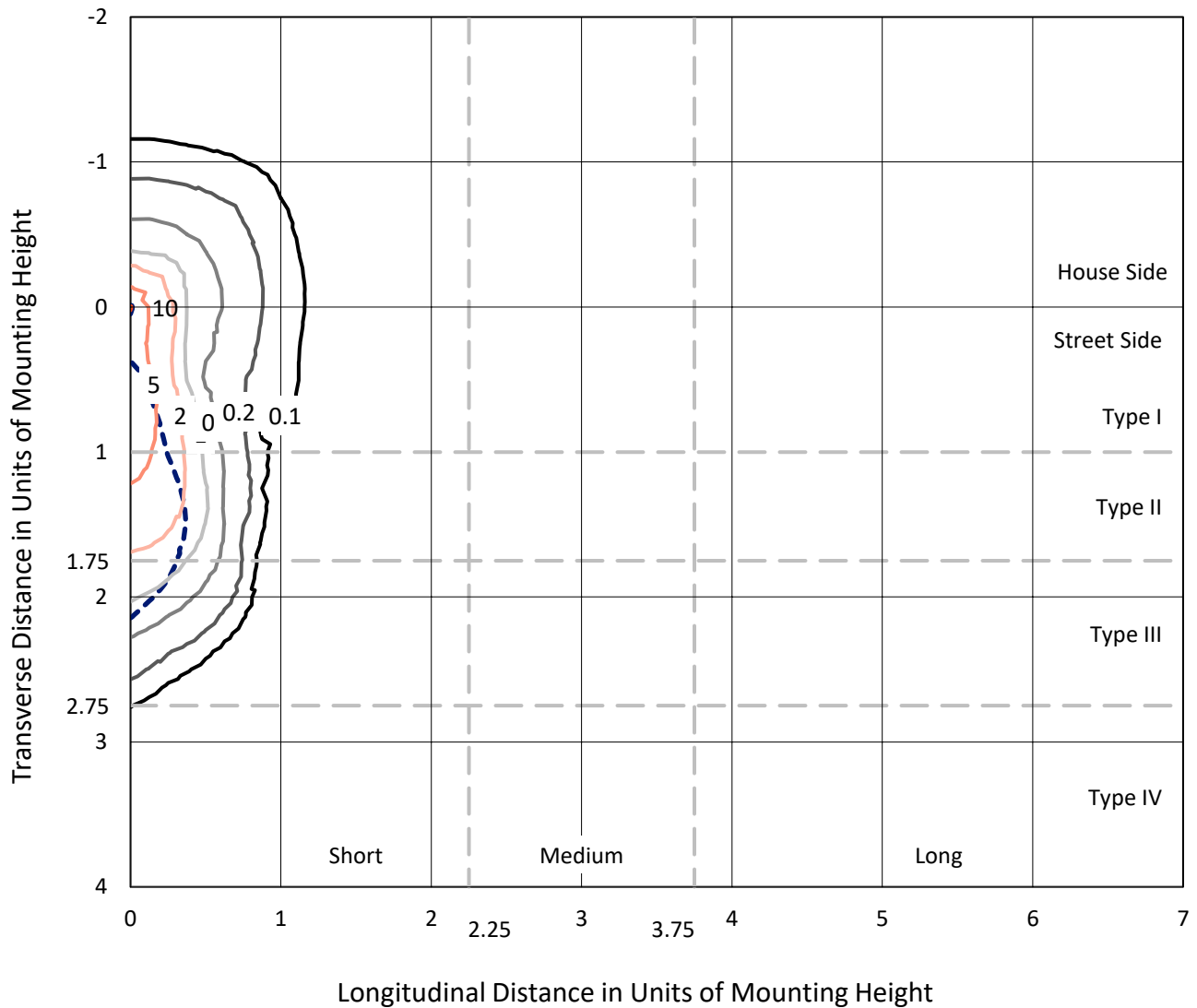
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

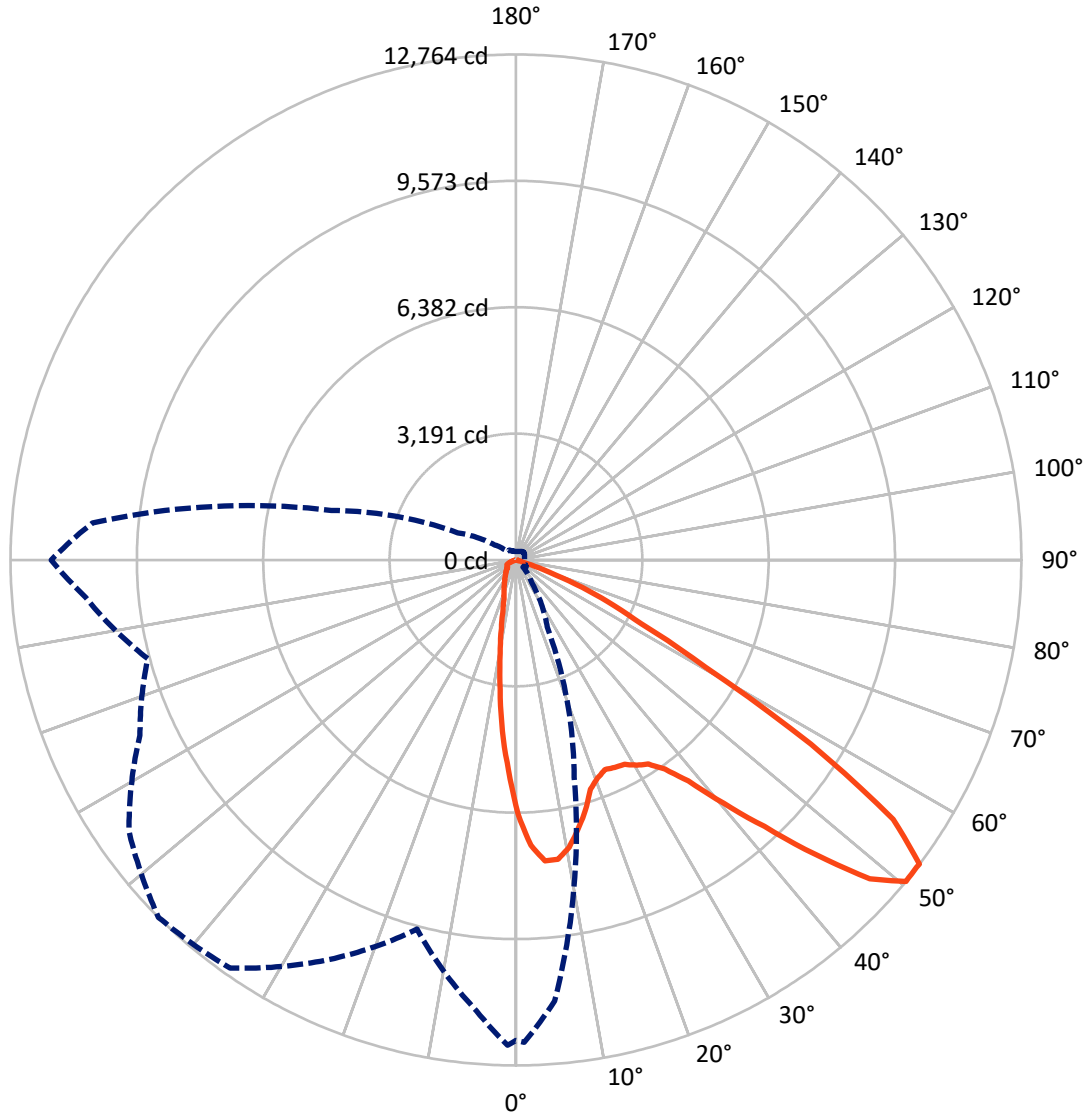
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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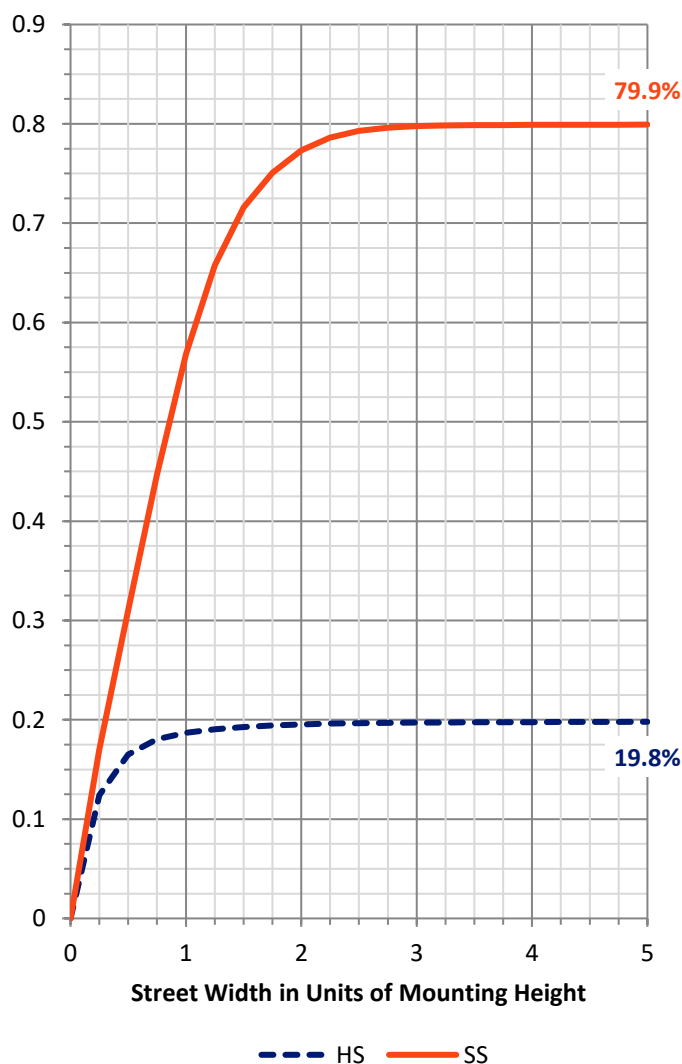
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.0	0.0	2536.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	10125.0	0.0	10125.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	12661.0	0.0	12661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.0	3.7
10°-20°	930.1	7.3
20°-30°	1397.3	11.0
30°-40°	2097.4	16.6
40°-50°	2947.7	23.3
50°-60°	3179.6	25.1
60°-70°	1476.3	11.7
70°-80°	138.9	1.1
80°-90°	25.6	0.2
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°	12661.0	100.0
0°-180°	12661.0	100.0

Coefficient of Utilization



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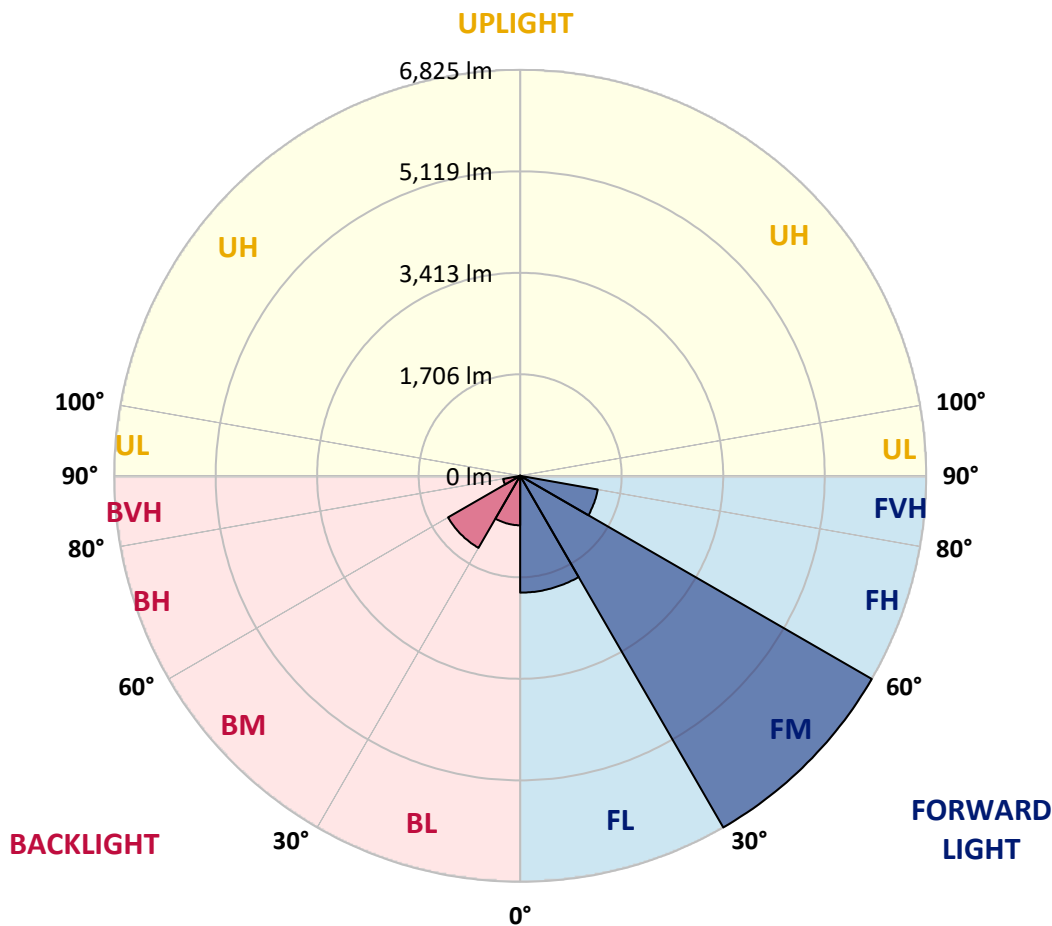
CATALOG NUMBER: GALN-SA5A-740-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.2	15.5			
FM (30°-60°)	6825.2	53.9			
FH (60°-80°)	1324.0	10.5			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	831.2	6.6	B2/1000		
BM (30°-60°)	1399.5	11.1	B2/2500		
BH (60°-80°)	291.2	2.3	B1/500		G1/500
BVH (80°-90°)	14.1	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7
2.5°	6674.4	6571.4	6440.8	6332.8	6172.0	5848.0	5760.1	5654.6	5566.6	5448.6	5282.8
5°	6069.0	6036.4	5976.1	5569.1	5275.2	4883.4	4561.8	4426.2	4247.8	4102.1	3996.6
7.5°	5606.8	5476.2	5285.3	4875.8	4406.1	3986.6	3629.9	3421.4	3185.2	3104.9	2961.7
10°	5112.0	5142.1	4860.8	4285.5	3717.8	3378.7	3157.6	2956.6	2743.1	2602.5	2399.0
12.5°	4953.7	4855.7	4639.7	3928.8	3444.0	3127.5	2858.7	2610.0	2383.9	2157.8	1961.9
15°	5056.7	4906.0	4604.5	3853.4	3233.0	2838.6	2502.0	2165.4	1956.9	1668.0	1464.5
17.5°	5426.0	5305.4	4901.0	3933.8	3125.0	2562.3	2062.4	1715.7	1396.7	1135.4	1032.4
20°	6041.4	5870.6	5363.2	4036.8	2964.2	2228.2	1673.0	1246.0	944.5	834.0	776.2
22.5°	6644.3	6551.3	5910.8	4235.3	2821.0	1931.7	1256.0	839.0	705.9	685.8	648.1
25°	7792.3	7513.5	6747.3	4594.5	2710.5	1652.9	947.0	675.7	597.9	582.8	587.8
27.5°	8475.6	8241.9	7521.0	4833.1	2587.4	1439.4	801.3	620.5	567.7	535.1	522.5
30°	9131.2	8859.9	7905.3	4973.8	2323.6	1213.3	710.9	595.3	582.8	535.1	520.0
32.5°	9636.1	9369.8	8460.5	5184.8	2215.6	1067.6	585.3	464.7	432.1	427.0	472.3
35°	10409.8	10126.0	8935.3	5300.4	2132.7	992.2	507.4	414.5	376.8	361.7	364.2
37.5°	11130.8	10937.3	9374.9	5345.6	2044.8	969.6	454.7	371.8	339.1	329.1	326.6
40°	11733.6	11301.6	9791.9	5393.3	2007.1	926.9	422.0	339.1	316.5	301.4	301.4
42.5°	12010.0	11570.4	10259.1	5365.7	1997.1	859.1	422.0	311.5	293.9	278.8	276.3
45°	11949.7	11771.3	10467.6	5353.1	1997.1	791.3	384.3	304.0	278.8	258.7	253.7
47.5°	12105.4	11871.8	10728.8	5405.9	1956.9	743.6	324.1	319.0	263.8	238.6	233.6
50°	12133.1	12178.3	11183.5	5679.7	1868.9	683.3	253.7	314.0	253.7	216.0	211.0
52°	12313.9	12032.6	11321.7	5825.4	1776.0	638.1	213.5	268.8	243.7	201.0	195.9
52.5°	12065.2	12248.6	11354.3	5878.1	1786.0	607.9	206.0	263.8	238.6	201.0	188.4
55°	11786.4	11962.2	11221.2	5991.2	1637.8	477.3	160.8	190.9	216.0	175.8	168.3
57.5°	10244.0	10422.4	9751.7	5486.3	1333.9	336.6	133.1	143.2	190.9	163.3	155.7
60°	9106.1	8978.0	8184.2	4576.9	947.0	188.4	105.5	110.5	208.5	150.7	148.2
62.5°	8322.3	8048.5	6840.2	3534.4	577.8	125.6	82.9	85.4	160.8	140.7	140.7
65°	6157.0	5850.5	4544.2	2137.7	283.9	87.9	62.8	67.8	100.5	120.6	120.6
67.5°	3514.3	3396.3	2195.5	964.6	118.1	55.3	47.7	52.8	77.9	98.0	92.9
70°	1615.2	1449.4	844.0	203.5	55.3	37.7	37.7	42.7	62.8	72.8	67.8
72.5°	472.3	447.1	206.0	32.7	22.6	22.6	25.1	32.7	47.7	55.3	50.2
75°	35.2	22.6	15.1	10.0	10.0	15.1	20.1	32.7	47.7	52.8	42.7
77.5°	2.5	5.0	2.5	2.5	7.5	15.1	22.6	40.2	62.8	65.3	47.7
80°	2.5	2.5	0.0	2.5	7.5	15.1	25.1	45.2	70.3	75.4	40.2
82.5°	0.0	0.0	0.0	2.5	10.0	20.1	30.1	47.7	65.3	80.4	42.7
85°	0.0	0.0	0.0	2.5	15.1	27.6	35.2	12.6	7.5	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°	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7
2.5°	5400.8	5335.5	5310.4	5333.0	5325.5	5317.9	5456.1	5426.0	5420.9	5466.2	5456.1
5°	4054.4	3938.8	4255.4	4127.2	4260.4	4340.8	4355.8	4363.4	4456.3	4358.4	4486.5
7.5°	2888.8	2919.0	2916.5	3001.9	3155.1	3290.7	3371.1	3308.3	3303.3	3290.7	3235.5
10°	2308.5	2255.8	2245.7	2225.6	2273.4	2388.9	2486.9	2409.0	2353.8	2429.1	2406.5
12.5°	1886.5	1813.7	1773.5	1693.1	1695.6	1773.5	1773.5	1773.5	1828.8	1871.5	1904.1
15°	1446.9	1386.6	1386.6	1306.3	1288.7	1291.2	1331.4	1336.4	1424.3	1449.4	1462.0
17.5°	1012.3	979.7	1017.4	1050.0	1029.9	1035.0	1050.0	1055.0	1067.6	1057.6	1082.7
20°	778.7	773.7	783.8	841.5	884.2	909.4	891.8	866.6	851.6	816.4	816.4
22.5°	660.7	670.7	688.3	736.0	791.3	806.4	786.3	728.5	683.3	678.2	680.8
25°	587.8	597.9	625.5	655.6	685.8	710.9	690.8	648.1	623.0	600.4	600.4
27.5°	542.6	547.6	562.7	585.3	610.4	630.5	623.0	600.4	572.7	562.7	540.1
30°	507.4	515.0	532.5	537.6	560.2	570.2	557.7	552.6	535.1	522.5	515.0
32.5°	489.8	487.3	499.9	504.9	507.4	515.0	499.9	507.4	504.9	484.8	477.3
35°	369.3	389.4	422.0	449.7	457.2	467.2	464.7	454.7	427.0	404.4	376.8
37.5°	331.6	344.1	361.7	384.3	414.5	427.0	422.0	396.9	364.2	349.2	344.1
40°	306.5	314.0	329.1	344.1	374.3	396.9	379.3	356.7	331.6	319.0	311.5
42.5°	283.9	286.4	293.9	309.0	331.6	366.8	336.6	306.5	296.4	288.9	283.9
45°	258.7	258.7	268.8	276.3	301.4	334.1	304.0	276.3	271.3	266.3	263.8
47.5°	238.6	241.2	246.2	256.2	276.3	298.9	278.8	256.2	243.7	241.2	236.1
50°	213.5	216.0	226.1	236.1	261.3	273.8	261.3	236.1	223.6	216.0	216.0
52°	193.4	201.0	211.0	231.1	248.7	268.8	253.7	226.1	211.0	203.5	198.4
52.5°	190.9	195.9	206.0	228.6	248.7	266.3	251.2	223.6	206.0	201.0	195.9
55°	170.8	178.4	195.9	223.6	246.2	266.3	246.2	221.1	195.9	183.4	178.4
57.5°	163.3	168.3	190.9	226.1	243.7	266.3	246.2	221.1	195.9	173.3	168.3
60°	155.7	165.8	190.9	218.5	241.2	268.8	248.7	218.5	190.9	163.3	163.3
62.5°	148.2	155.7	188.4	213.5	231.1	258.7	238.6	213.5	183.4	155.7	153.2
65°	128.1	140.7	165.8	178.4	198.4	223.6	203.5	185.9	160.8	138.2	135.6
67.5°	98.0	103.0	123.1	138.2	150.7	173.3	163.3	140.7	123.1	105.5	105.5
70°	67.8	72.8	87.9	95.5	108.0	120.6	113.0	95.5	82.9	72.8	70.3
72.5°	47.7	50.2	55.3	60.3	65.3	70.3	67.8	55.3	47.7	45.2	42.7
75°	37.7	42.7	45.2	42.7	40.2	37.7	37.7	32.7	27.6	25.1	25.1
77.5°	37.7	40.2	37.7	32.7	27.6	25.1	22.6	20.1	15.1	12.6	15.1
80°	32.7	32.7	32.7	27.6	25.1	22.6	20.1	17.6	15.1	12.6	12.6
82.5°	35.2	35.2	32.7	27.6	27.6	22.6	22.6	20.1	17.6	12.6	12.6
85°	0.0	0.0	0.0	5.0	12.6	22.6	22.6	20.1	17.6	15.1	15.1
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	10.0	12.6	15.1	15.1	15.1
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°	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7
2.5°	5546.5	5642.0	5822.9	6003.7	6114.3	6244.9	6481.0	6606.6	6769.9	6850.3	7008.5
5°	4468.9	4695.0	4775.3	4981.3	5202.4	5423.5	5775.1	6162.0	6483.5	6704.6	6991.0
7.5°	3260.6	3313.4	3624.8	3763.0	4124.7	4526.7	5006.5	5493.8	5900.7	6262.5	6481.0
10°	2444.2	2637.6	2833.6	3097.3	3388.7	3803.2	4262.9	4800.5	5328.0	5689.7	5966.0
12.5°	1964.4	2117.6	2378.9	2662.7	3022.0	3295.8	3758.0	4290.5	4973.8	5328.0	5692.2
15°	1487.1	1683.1	1979.5	2273.4	2652.7	2941.6	3408.8	4079.5	4958.7	5446.1	5760.1
17.5°	1102.8	1235.9	1502.2	1831.3	2218.1	2625.1	3255.6	4056.9	5127.0	5707.3	6031.4
20°	844.0	889.3	1057.6	1351.5	1771.0	2303.5	3006.9	4154.9	5624.4	6342.9	6671.9
22.5°	683.3	703.4	768.7	972.2	1379.1	2022.2	2888.8	4222.7	6184.6	7104.0	7543.6
25°	595.3	590.3	633.0	720.9	1077.7	1758.4	2738.1	4478.9	6870.4	7998.3	8392.7
27.5°	542.6	542.6	562.7	625.5	894.3	1587.6	2642.6	4662.3	7561.2	8784.5	8998.1
30°	515.0	520.0	577.8	597.9	743.6	1384.1	2484.4	4848.2	8221.8	9286.9	9580.8
32.5°	477.3	457.2	444.6	494.9	625.5	1200.7	2326.1	4926.1	8756.9	9902.4	10153.6
35°	366.8	356.7	371.8	409.5	537.6	1045.0	2150.3	5014.0	9372.3	10615.8	10666.0
37.5°	331.6	329.1	339.1	371.8	452.2	909.4	2024.7	4991.4	9842.1	11206.1	11070.5
40°	306.5	306.5	314.0	341.6	404.4	813.9	1894.1	4971.3	10296.8	11869.3	11472.4
42.5°	286.4	286.4	298.9	316.5	384.3	751.1	1796.1	4943.7	10678.6	12276.2	11708.5
45°	258.7	266.3	286.4	304.0	389.4	708.4	1723.2	4838.2	10809.2	12271.2	11595.5
47.5°	238.6	248.7	268.8	293.9	351.7	695.8	1673.0	4745.2	10764.0	11969.8	11241.3
50°	216.0	228.6	256.2	298.9	298.9	670.7	1620.3	4828.1	10731.3	11736.2	10902.2
52°	201.0	211.0	246.2	291.4	261.3	618.0	1587.6	4988.9	10864.5	11706.0	10751.4
52.5°	198.4	206.0	238.6	286.4	248.7	607.9	1565.0	5026.6	10907.2	11630.7	10854.4
55°	175.8	185.9	218.5	223.6	203.5	499.9	1492.1	5112.0	10696.2	11482.4	10756.5
57.5°	165.8	170.8	193.4	183.4	175.8	376.8	1283.6	4978.8	9500.5	10198.8	10007.9
60°	153.2	158.3	180.9	143.2	148.2	263.8	964.6	4323.2	7629.0	8498.2	8842.3
62.5°	148.2	145.7	170.8	115.6	125.6	190.9	680.8	3514.3	5878.1	6996.0	7591.3
65°	130.6	128.1	123.1	98.0	108.0	148.2	406.9	2293.5	4142.3	5292.8	5619.4
67.5°	100.5	105.5	90.4	77.9	90.4	115.6	226.1	1027.4	2172.9	3175.2	3439.0
70°	70.3	75.4	72.8	67.8	80.4	95.5	130.6	351.7	899.3	1668.0	1838.8
72.5°	42.7	52.8	55.3	57.8	70.3	82.9	92.9	113.0	238.6	590.3	733.5
75°	25.1	35.2	42.7	50.2	57.8	70.3	77.9	80.4	82.9	110.5	178.4
77.5°	17.6	25.1	37.7	47.7	57.8	70.3	82.9	87.9	82.9	77.9	82.9
80°	15.1	25.1	35.2	45.2	60.3	72.8	82.9	82.9	80.4	70.3	75.4
82.5°	15.1	25.1	37.7	47.7	57.8	70.3	80.4	82.9	75.4	70.3	72.8
85°	17.6	27.6	40.2	50.2	62.8	57.8	52.8	42.7	40.2	32.7	35.2
87.5°	17.6	25.1	25.1	27.6	30.1	30.1	30.1	27.6	22.6	20.1	20.1
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: P529875

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7	6420.7
2.5°	7016.1	7217.0	7209.5	7214.5	7184.4	6980.9	6882.9	6634.2	6704.6	6674.4
5°	7284.9	7483.3	7654.1	7634.0	7402.9	7126.6	6717.1	6330.3	6224.8	6069.0
7.5°	7016.1	7493.4	7651.6	7629.0	7287.4	6933.2	6280.0	5893.2	5709.8	5606.8
10°	6589.0	7141.7	7337.6	7377.8	7146.7	6609.1	6008.8	5388.3	5290.3	5112.0
12.5°	6345.4	6747.3	6867.9	6975.9	6895.5	6493.6	5802.8	5207.4	5071.8	4953.7
15°	6146.9	6385.6	6435.8	6558.9	6606.6	6390.6	5910.8	5403.4	5069.3	5056.7
17.5°	6330.3	6232.3	6048.9	6086.6	6237.3	6393.1	6189.6	5790.2	5466.2	5426.0
20°	6634.2	6202.2	5787.7	5880.6	6006.2	6483.5	6611.6	6330.3	6144.4	6041.4
22.5°	6983.4	6254.9	5704.8	5750.0	5988.7	6687.0	7294.9	7139.2	6792.5	6644.3
25°	7629.0	6400.6	5770.1	5800.3	6126.8	6970.9	7912.9	8028.4	7822.4	7792.3
27.5°	8259.5	6777.4	5913.3	5845.5	6197.2	7247.2	8287.2	8907.6	8545.9	8475.6
30°	8581.1	7083.9	6126.8	6011.3	6488.5	7415.5	8513.2	9480.4	9163.8	9131.2
32.5°	9073.4	7362.7	6292.6	6144.4	6651.8	7624.0	8935.3	10105.9	9799.4	9636.1
35°	9279.4	7666.7	6656.9	6483.5	7119.1	7915.4	9151.3	10663.5	10568.1	10409.8
37.5°	9676.3	7993.2	7086.4	7076.4	7684.3	8294.7	9540.7	11422.2	11404.6	11130.8
40°	9709.0	8350.0	7764.7	8081.2	8558.5	8955.4	9882.3	11633.2	11919.5	11733.6
42.5°	9759.2	8975.4	8937.8	9199.0	9608.5	9523.1	9894.8	11683.4	12120.5	12010.0
45°	9781.8	9600.9	10131.0	10613.3	10784.1	10266.6	9776.8	11587.9	12226.0	11949.7
47.5°	9600.9	10138.5	11095.6	12027.6	12077.8	10723.8	9726.5	11490.0	12288.8	12105.4
50°	9626.1	10475.1	11929.6	12763.6	12580.2	11128.2	9648.7	11429.7	12256.1	12133.1
52°	9565.8	10482.7	12047.6	12748.5	12620.4	10904.7	9515.5	11198.6	12226.0	12313.9
52.5°	9633.6	10437.4	11924.6	12758.5	12592.8	11015.2	9497.9	11326.7	12243.6	12065.2
55°	9400.0	9899.9	11203.6	11557.8	11532.7	9997.8	8957.9	10902.2	11783.9	11786.4
57.5°	8495.7	8581.1	8787.0	8779.5	8664.0	7860.1	7661.7	10025.5	10505.3	10244.0
60°	7485.8	6282.6	5727.4	5501.3	5373.2	5242.6	6777.4	9171.4	9216.6	9106.1
62.5°	6468.5	4355.8	3617.3	3554.5	3584.7	4061.9	6551.3	8832.3	8561.0	8322.3
65°	5220.0	3175.2	2627.6	2544.7	2838.6	3353.5	5302.9	6772.4	6355.4	6157.0
67.5°	3278.2	2316.1	1776.0	1620.3	1974.4	2308.5	3484.2	4255.4	3788.1	3514.3
70°	1944.3	1293.7	803.8	720.9	811.4	1230.9	1951.8	2122.7	1755.9	1615.2
72.5°	766.2	474.8	223.6	190.9	198.4	432.1	718.4	700.9	530.0	472.3
75°	206.0	143.2	77.9	62.8	52.8	80.4	115.6	75.4	27.6	35.2
77.5°	95.5	85.4	67.8	52.8	40.2	30.1	15.1	5.0	5.0	2.5
80°	82.9	72.8	62.8	52.8	40.2	25.1	12.6	2.5	2.5	2.5
82.5°	77.9	67.8	57.8	47.7	37.7	25.1	12.6	2.5	0.0	0.0
85°	32.7	42.7	47.7	45.2	40.2	25.1	12.6	2.5	0.0	0.0
87.5°	17.6	15.1	12.6	10.0	7.5	5.0	5.0	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)