

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: P529381

Luminaire Tested: **GALN-SA4C-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529381
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-SA4C-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 14323 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

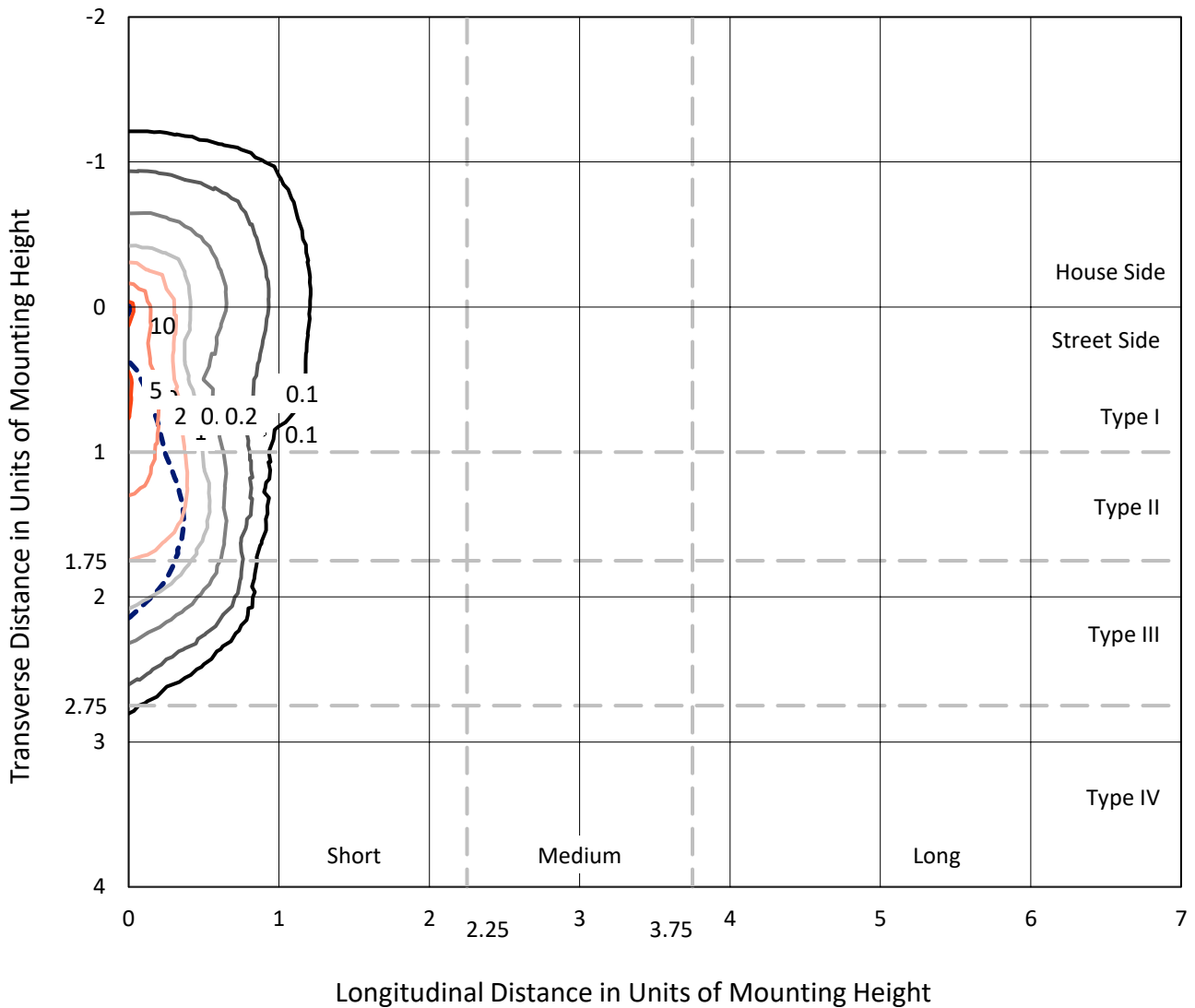
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

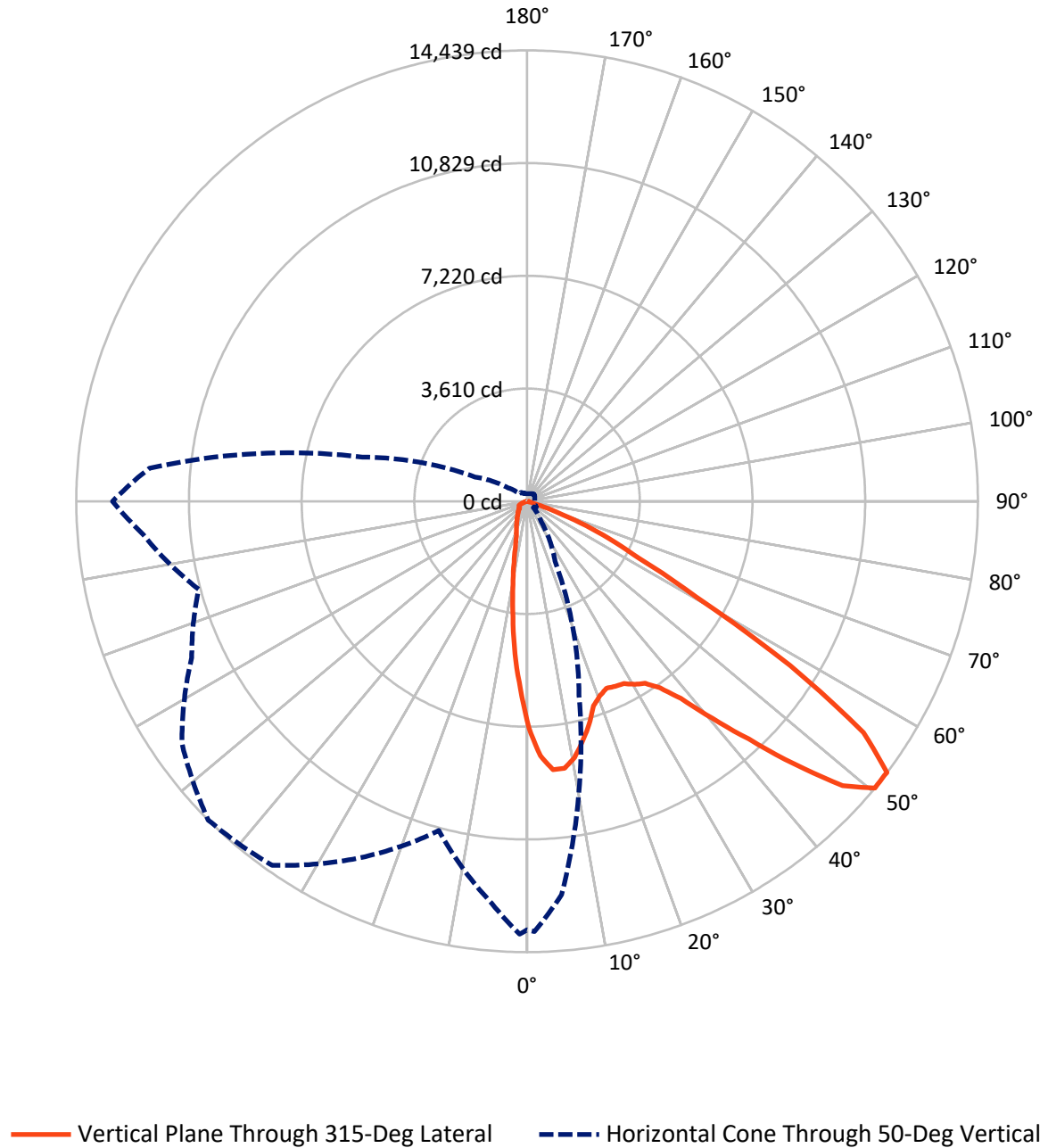
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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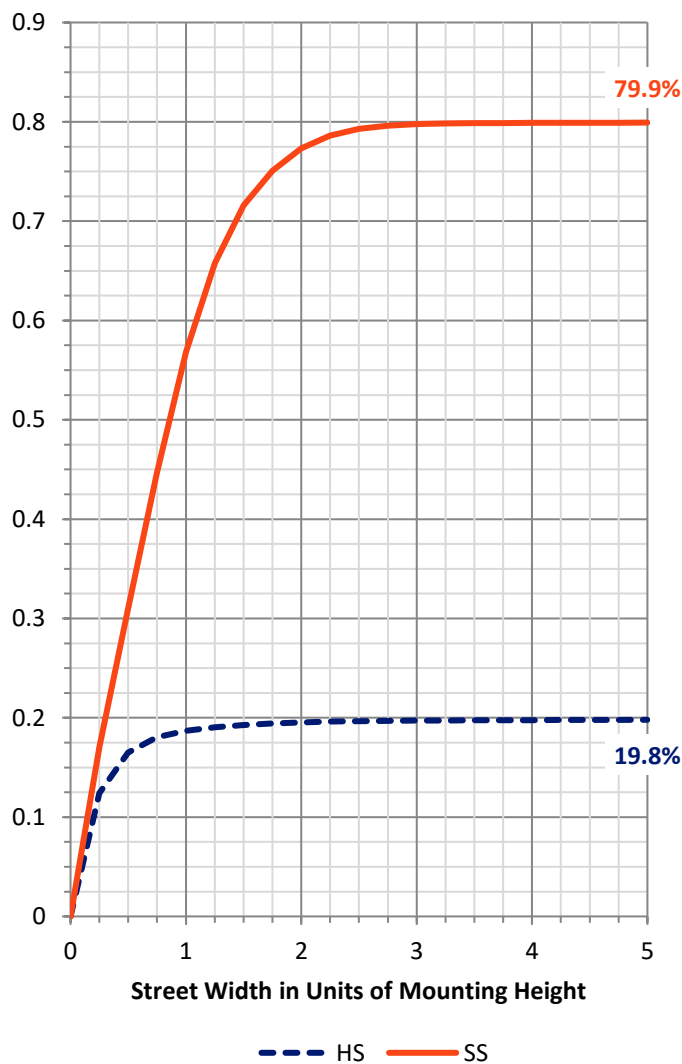
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2868.9	0.0	2868.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	11454.1	0.0	11454.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	14323.0	0.0	14323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	3.7
10°-20°	1052.2	7.3
20°-30°	1580.8	11.0
30°-40°	2372.7	16.6
40°-50°	3334.7	23.3
50°-60°	3597.0	25.1
60°-70°	1670.1	11.7
70°-80°	157.1	1.1
80°-90°	29.0	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°	14323.0	100.0
0°-180°	14323.0	100.0

Coefficient of Utilization



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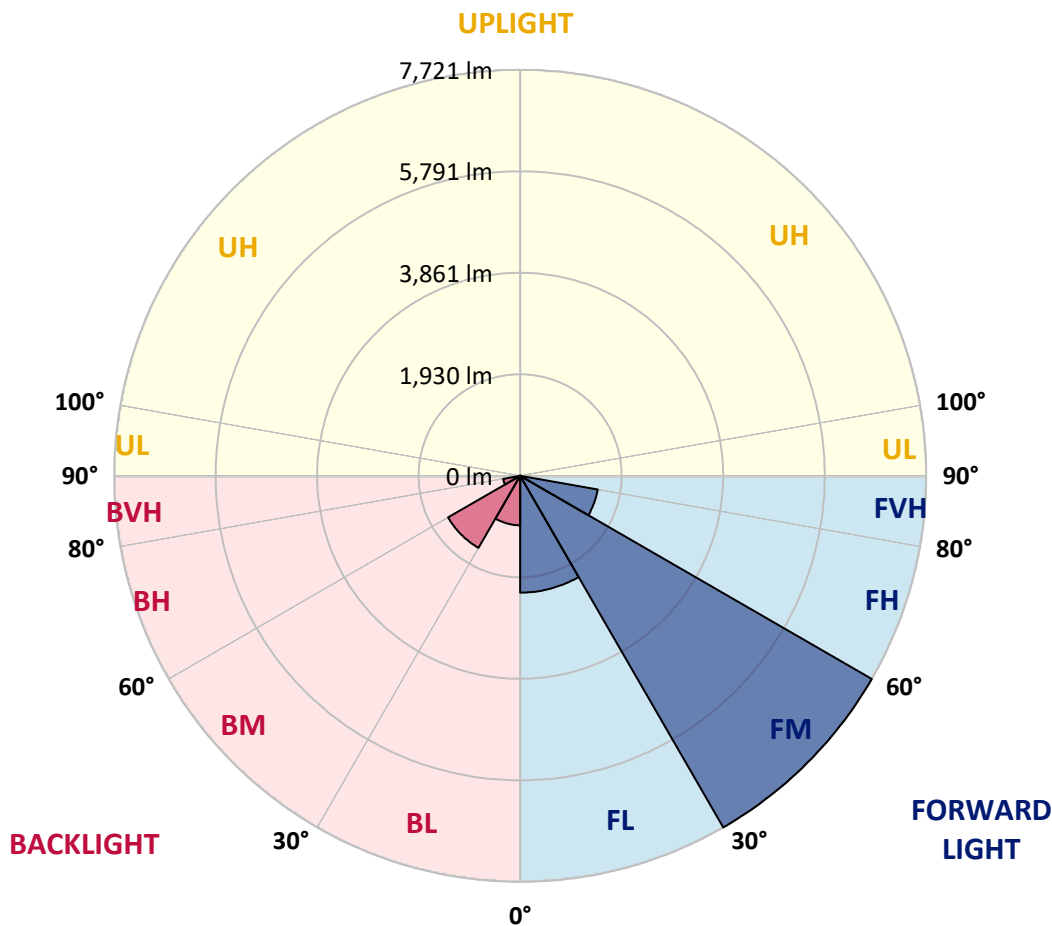
CATALOG NUMBER: GALN-SA4C-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.1	15.5			
FM (30°-60°)	7721.2	53.9			
FH (60°-80°)	1497.8	10.5			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	940.4	6.6	B2/1000		
BM (30°-60°)	1583.2	11.1	B2/2500		
BH (60°-80°)	329.4	2.3	B1/500		G1/500
BVH (80°-90°)	15.9	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°	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6
2.5°	7550.6	7434.1	7286.3	7164.1	6982.2	6615.6	6516.2	6396.8	6297.4	6163.8	5976.2
5°	6865.7	6828.8	6760.6	6300.2	5967.7	5524.4	5160.7	5007.2	4805.4	4640.6	4521.3
7.5°	6342.8	6195.1	5979.1	5515.9	4984.5	4509.9	4106.4	3870.5	3603.4	3512.4	3350.4
10°	5783.0	5817.1	5498.8	4848.1	4205.8	3822.2	3572.1	3344.8	3103.2	2944.1	2713.9
12.5°	5604.0	5493.1	5248.8	4444.5	3896.1	3538.0	3233.9	2952.6	2696.8	2441.1	2219.4
15°	5720.5	5550.0	5209.0	4359.3	3657.4	3211.2	2830.4	2449.6	2213.7	1886.9	1656.8
17.5°	6138.2	6001.8	5544.3	4450.2	3535.2	2898.6	2333.1	1940.9	1580.0	1284.5	1168.0
20°	6834.5	6641.2	6067.2	4566.7	3353.3	2520.7	1892.6	1409.5	1068.5	943.5	878.1
22.5°	7516.5	7411.3	6686.7	4791.2	3191.3	2185.3	1420.9	949.2	798.5	775.8	733.2
25°	8815.2	8499.7	7633.0	5197.6	3066.3	1869.9	1071.3	764.4	676.3	659.3	665.0
27.5°	9588.1	9323.9	8508.3	5467.6	2927.0	1628.3	906.5	701.9	642.2	605.3	591.1
30°	10329.8	10022.9	8943.1	5626.7	2628.6	1372.6	804.2	673.5	659.3	605.3	588.2
32.5°	10901.0	10599.8	9571.1	5865.4	2506.4	1207.8	662.1	525.7	488.8	483.1	534.3
35°	11776.3	11455.2	10108.2	5996.1	2412.7	1122.5	574.0	468.9	426.3	409.2	412.1
37.5°	12591.9	12373.1	10605.5	6047.3	2313.2	1096.9	514.4	420.6	383.6	372.3	369.4
40°	13273.9	12785.1	11077.2	6101.3	2270.6	1048.6	477.4	383.6	358.1	341.0	341.0
42.5°	13586.5	13089.2	11605.8	6070.0	2259.2	971.9	477.4	352.4	332.5	315.4	312.6
45°	13518.3	13316.5	11841.7	6055.8	2259.2	895.2	434.8	343.9	315.4	292.7	287.0
47.5°	13694.5	13430.2	12137.2	6115.5	2213.7	841.2	366.6	360.9	298.4	270.0	264.3
50°	13725.8	13776.9	12651.6	6425.2	2114.3	773.0	287.0	355.2	287.0	244.4	238.7
52°	13930.4	13612.1	12807.9	6590.1	2009.1	721.8	241.6	304.1	275.7	227.3	221.7
52.5°	13649.0	13856.5	12844.8	6649.7	2020.5	687.7	233.0	298.4	270.0	227.3	213.1
55°	13333.6	13532.5	12694.2	6777.6	1852.8	539.9	181.9	216.0	244.4	198.9	190.4
57.5°	11588.7	11790.5	11031.8	6206.4	1509.0	380.8	150.6	162.0	216.0	184.7	176.2
60°	10301.4	10156.5	9258.5	5177.7	1071.3	213.1	119.4	125.0	235.9	170.5	167.7
62.5°	9414.8	9105.0	7738.1	3998.4	653.6	142.1	93.8	96.6	181.9	159.1	159.1
65°	6965.2	6618.5	5140.8	2418.3	321.1	99.5	71.0	76.7	113.7	136.4	136.4
67.5°	3975.6	3842.1	2483.7	1091.2	133.6	62.5	54.0	59.7	88.1	110.8	105.1
70°	1827.3	1639.7	954.8	230.2	62.5	42.6	42.6	48.3	71.0	82.4	76.7
72.5°	534.3	505.8	233.0	36.9	25.6	25.6	28.4	36.9	54.0	62.5	56.8
75°	39.8	25.6	17.1	11.4	11.4	17.1	22.7	36.9	54.0	59.7	48.3
77.5°	2.8	5.7	2.8	2.8	8.5	17.1	25.6	45.5	71.0	73.9	54.0
80°	2.8	2.8	0.0	2.8	8.5	17.1	28.4	51.2	79.6	85.3	45.5
82.5°	0.0	0.0	0.0	2.8	11.4	22.7	34.1	54.0	73.9	90.9	48.3
85°	0.0	0.0	0.0	2.8	17.1	31.3	39.8	14.2	8.5	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°	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6
2.5°	6109.8	6035.9	6007.5	6033.1	6024.6	6016.0	6172.3	6138.2	6132.5	6183.7	6172.3
5°	4586.6	4455.9	4814.0	4669.0	4819.6	4910.6	4927.6	4936.2	5041.3	4930.5	5075.4
7.5°	3268.0	3302.1	3299.3	3395.9	3569.3	3722.7	3813.7	3742.6	3736.9	3722.7	3660.2
10°	2611.6	2551.9	2540.5	2517.8	2571.8	2702.5	2813.4	2725.3	2662.7	2748.0	2722.4
12.5°	2134.2	2051.8	2006.3	1915.4	1918.2	2006.3	2006.3	2006.3	2068.8	2117.1	2154.1
15°	1636.9	1568.7	1568.7	1477.7	1457.8	1460.7	1506.1	1511.8	1611.3	1639.7	1653.9
17.5°	1145.2	1108.3	1150.9	1187.9	1165.1	1170.8	1187.9	1193.5	1207.8	1196.4	1224.8
20°	880.9	875.3	886.6	952.0	1000.3	1028.7	1008.8	980.4	963.4	923.6	923.6
22.5°	747.4	758.8	778.6	832.6	895.2	912.2	889.5	824.1	773.0	767.3	770.1
25°	665.0	676.3	707.6	741.7	775.8	804.2	781.5	733.2	704.8	679.2	679.2
27.5°	613.8	619.5	636.6	662.1	690.6	713.3	704.8	679.2	647.9	636.6	611.0
30°	574.0	582.6	602.5	608.1	633.7	645.1	630.9	625.2	605.3	591.1	582.6
32.5°	554.1	551.3	565.5	571.2	574.0	582.6	565.5	574.0	571.2	548.5	539.9
35°	417.7	440.5	477.4	508.7	517.2	528.6	525.7	514.4	483.1	457.5	426.3
37.5°	375.1	389.3	409.2	434.8	468.9	483.1	477.4	449.0	412.1	395.0	389.3
40°	346.7	355.2	372.3	389.3	423.4	449.0	429.1	403.5	375.1	360.9	352.4
42.5°	321.1	324.0	332.5	349.5	375.1	414.9	380.8	346.7	335.3	326.8	321.1
45°	292.7	292.7	304.1	312.6	341.0	378.0	343.9	312.6	306.9	301.2	298.4
47.5°	270.0	272.8	278.5	289.9	312.6	338.2	315.4	289.9	275.7	272.8	267.1
50°	241.6	244.4	255.8	267.1	295.5	309.8	295.5	267.1	252.9	244.4	244.4
52°	218.8	227.3	238.7	261.4	281.3	304.1	287.0	255.8	238.7	230.2	224.5
52.5°	216.0	221.7	233.0	258.6	281.3	301.2	284.2	252.9	233.0	227.3	221.7
55°	193.2	201.8	221.7	252.9	278.5	301.2	278.5	250.1	221.7	207.4	201.8
57.5°	184.7	190.4	216.0	255.8	275.7	301.2	278.5	250.1	221.7	196.1	190.4
60°	176.2	187.6	216.0	247.2	272.8	304.1	281.3	247.2	216.0	184.7	184.7
62.5°	167.7	176.2	213.1	241.6	261.4	292.7	270.0	241.6	207.4	176.2	173.3
65°	144.9	159.1	187.6	201.8	224.5	252.9	230.2	210.3	181.9	156.3	153.5
67.5°	110.8	116.5	139.2	156.3	170.5	196.1	184.7	159.1	139.2	119.4	119.4
70°	76.7	82.4	99.5	108.0	122.2	136.4	127.9	108.0	93.8	82.4	79.6
72.5°	54.0	56.8	62.5	68.2	73.9	79.6	76.7	62.5	54.0	51.2	48.3
75°	42.6	48.3	51.2	48.3	45.5	42.6	42.6	36.9	31.3	28.4	28.4
77.5°	42.6	45.5	42.6	36.9	31.3	28.4	25.6	22.7	17.1	14.2	17.1
80°	36.9	36.9	36.9	31.3	28.4	25.6	22.7	19.9	17.1	14.2	14.2
82.5°	39.8	39.8	36.9	31.3	31.3	25.6	25.6	22.7	19.9	14.2	14.2
85°	0.0	0.0	0.0	5.7	14.2	25.6	25.6	22.7	19.9	17.1	17.1
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	11.4	14.2	17.1	17.1	17.1
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°	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6
2.5°	6274.6	6382.6	6587.2	6791.8	6916.9	7064.6	7331.8	7473.9	7658.6	7749.5	7928.5
5°	5055.5	5311.3	5402.2	5635.2	5885.3	6135.4	6533.2	6970.9	7334.6	7584.7	7908.6
7.5°	3688.6	3748.3	4100.7	4257.0	4666.2	5120.9	5663.6	6215.0	6675.3	7084.5	7331.8
10°	2765.0	2983.9	3205.5	3503.9	3833.5	4302.4	4822.5	5430.6	6027.4	6436.6	6749.2
12.5°	2222.3	2395.6	2691.2	3012.3	3418.7	3728.4	4251.3	4853.7	5626.7	6027.4	6439.5
15°	1682.3	1904.0	2239.3	2571.8	3000.9	3327.7	3856.3	4615.0	5609.7	6161.0	6516.2
17.5°	1247.5	1398.2	1699.4	2071.7	2509.3	2969.7	3682.9	4589.5	5800.1	6456.5	6823.1
20°	954.8	1006.0	1196.4	1528.9	2003.4	2605.9	3401.6	4700.3	6362.7	7175.5	7547.7
22.5°	773.0	795.7	869.6	1099.8	1560.1	2287.6	3268.0	4777.0	6996.4	8036.5	8533.8
25°	673.5	667.8	716.1	815.6	1219.1	1989.2	3097.5	5066.9	7772.2	9048.2	9494.4
27.5°	613.8	613.8	636.6	707.6	1011.7	1796.0	2989.5	5274.3	8553.7	9937.7	10179.2
30°	582.6	588.2	653.6	676.3	841.2	1565.8	2810.5	5484.6	9301.1	10506.0	10838.5
32.5°	539.9	517.2	503.0	559.8	707.6	1358.4	2631.5	5572.7	9906.4	11202.3	11486.4
35°	414.9	403.5	420.6	463.2	608.1	1182.2	2432.6	5672.2	10602.6	12009.3	12066.2
37.5°	375.1	372.3	383.6	420.6	511.5	1028.7	2290.5	5646.6	11134.1	12677.1	12523.7
40°	346.7	346.7	355.2	386.5	457.5	920.7	2142.7	5623.9	11648.4	13427.4	12978.4
42.5°	324.0	324.0	338.2	358.1	434.8	849.7	2031.9	5592.6	12080.4	13887.7	13245.5
45°	292.7	301.2	324.0	343.9	440.5	801.4	1949.5	5473.3	12228.1	13882.1	13117.6
47.5°	270.0	281.3	304.1	332.5	397.8	787.2	1892.6	5368.1	12177.0	13541.0	12716.9
50°	244.4	258.6	289.9	338.2	338.2	758.8	1832.9	5461.9	12140.0	13276.8	12333.3
52°	227.3	238.7	278.5	329.6	295.5	699.1	1796.0	5643.8	12290.7	13242.7	12162.8
52.5°	224.5	233.0	270.0	324.0	281.3	687.7	1770.4	5686.4	12339.0	13157.4	12279.3
55°	198.9	210.3	247.2	252.9	230.2	565.5	1688.0	5783.0	12100.3	12989.7	12168.5
57.5°	187.6	193.2	218.8	207.4	198.9	426.3	1452.1	5632.4	10747.6	11537.6	11321.6
60°	173.3	179.0	204.6	162.0	167.7	298.4	1091.2	4890.7	8630.5	9613.7	10003.0
62.5°	167.7	164.8	193.2	130.7	142.1	216.0	770.1	3975.6	6649.7	7914.3	8587.8
65°	147.8	144.9	139.2	110.8	122.2	167.7	460.4	2594.5	4686.1	5987.6	6357.0
67.5°	113.7	119.4	102.3	88.1	102.3	130.7	255.8	1162.3	2458.1	3592.0	3890.4
70°	79.6	85.3	82.4	76.7	90.9	108.0	147.8	397.8	1017.4	1886.9	2080.2
72.5°	48.3	59.7	62.5	65.4	79.6	93.8	105.1	127.9	270.0	667.8	829.8
75°	28.4	39.8	48.3	56.8	65.4	79.6	88.1	90.9	93.8	125.0	201.8
77.5°	19.9	28.4	42.6	54.0	65.4	79.6	93.8	99.5	93.8	88.1	93.8
80°	17.1	28.4	39.8	51.2	68.2	82.4	93.8	93.8	90.9	79.6	85.3
82.5°	17.1	28.4	42.6	54.0	65.4	79.6	90.9	93.8	85.3	79.6	82.4
85°	19.9	31.3	45.5	56.8	71.0	65.4	59.7	48.3	45.5	36.9	39.8
87.5°	19.9	28.4	28.4	31.3	34.1	34.1	34.1	31.3	25.6	22.7	22.7
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: P529381

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6	7263.6
2.5°	7937.1	8164.4	8155.9	8161.6	8127.5	7897.3	7786.5	7505.1	7584.7	7550.6
5°	8241.1	8465.6	8658.9	8636.1	8374.7	8062.1	7598.9	7161.3	7041.9	6865.7
7.5°	7937.1	8477.0	8656.0	8630.5	8244.0	7843.3	7104.4	6666.8	6459.3	6342.8
10°	7454.0	8079.2	8300.8	8346.3	8084.8	7476.7	6797.5	6095.6	5984.8	5783.0
12.5°	7178.3	7633.0	7769.4	7891.6	7800.7	7346.0	6564.5	5891.0	5737.5	5604.0
15°	6953.8	7223.8	7280.6	7419.9	7473.9	7229.5	6686.7	6112.6	5734.7	5720.5
17.5°	7161.3	7050.4	6843.0	6885.6	7056.1	7232.3	7002.1	6550.3	6183.7	6138.2
20°	7505.1	7016.3	6547.4	6652.6	6794.7	7334.6	7479.5	7161.3	6951.0	6834.5
22.5°	7900.1	7076.0	6453.7	6504.8	6774.8	7564.8	8252.5	8076.3	7684.1	7516.5
25°	8630.5	7240.8	6527.5	6561.6	6931.1	7885.9	8951.6	9082.3	8849.3	8815.2
27.5°	9343.7	7667.1	6689.5	6612.8	7010.6	8198.5	9375.0	10076.9	9667.7	9588.1
30°	9707.5	8013.8	6931.1	6800.4	7340.3	8388.9	9630.8	10724.8	10366.8	10329.8
32.5°	10264.5	8329.2	7118.6	6951.0	7525.0	8624.8	10108.2	11432.4	11085.7	10901.0
35°	10497.5	8673.1	7530.7	7334.6	8053.6	8954.4	10352.6	12063.3	11955.3	11776.3
37.5°	10946.5	9042.5	8016.6	8005.3	8693.0	9383.5	10793.0	12921.5	12901.6	12591.9
40°	10983.4	9446.0	8783.9	9142.0	9681.9	10130.9	11179.5	13160.2	13484.2	13273.9
42.5°	11040.3	10153.6	10111.0	10406.6	10869.8	10773.2	11193.7	13217.1	13711.5	13586.5
45°	11065.9	10861.2	11460.9	12006.5	12199.7	11614.3	11060.2	13109.1	13830.9	13518.3
47.5°	10861.2	11469.4	12552.1	13606.4	13663.2	12131.5	11003.3	12998.3	13901.9	13694.5
50°	10889.7	11850.2	13495.6	14439.0	14231.6	12589.0	10915.2	12930.1	13865.0	13725.8
52°	10821.5	11858.7	13629.1	14422.0	14277.1	12336.1	10764.6	12668.6	13830.9	13930.4
52.5°	10898.2	11807.6	13489.9	14433.4	14245.8	12461.2	10744.7	12813.5	13850.8	13649.0
55°	10633.9	11199.4	12674.3	13075.0	13046.6	11310.2	10133.8	12333.3	13330.7	13333.6
57.5°	9610.9	9707.5	9940.5	9932.0	9801.3	8891.9	8667.4	11341.5	11884.3	11588.7
60°	8468.5	7107.3	6479.2	6223.5	6078.5	5930.8	7667.1	10375.3	10426.5	10301.4
62.5°	7317.6	4927.6	4092.2	4021.1	4055.2	4595.1	7411.3	9991.7	9684.8	9414.8
65°	5905.2	3592.0	2972.5	2878.7	3211.2	3793.8	5999.0	7661.4	7189.7	6965.2
67.5°	3708.5	2620.1	2009.1	1832.9	2233.6	2611.6	3941.5	4814.0	4285.4	3975.6
70°	2199.5	1463.5	909.4	815.6	917.9	1392.5	2208.1	2401.3	1986.4	1827.3
72.5°	866.7	537.1	252.9	216.0	224.5	488.8	812.7	792.9	599.6	534.3
75°	233.0	162.0	88.1	71.0	59.7	90.9	130.7	85.3	31.3	39.8
77.5°	108.0	96.6	76.7	59.7	45.5	34.1	17.1	5.7	5.7	2.8
80°	93.8	82.4	71.0	59.7	45.5	28.4	14.2	2.8	2.8	2.8
82.5°	88.1	76.7	65.4	54.0	42.6	28.4	14.2	2.8	0.0	0.0
85°	36.9	48.3	54.0	51.2	45.5	28.4	14.2	2.8	0.0	0.0
87.5°	19.9	17.1	14.2	11.4	8.5	5.7	5.7	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)