

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: P651575

Luminaire Tested: **GALN-SA8D-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 37728.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

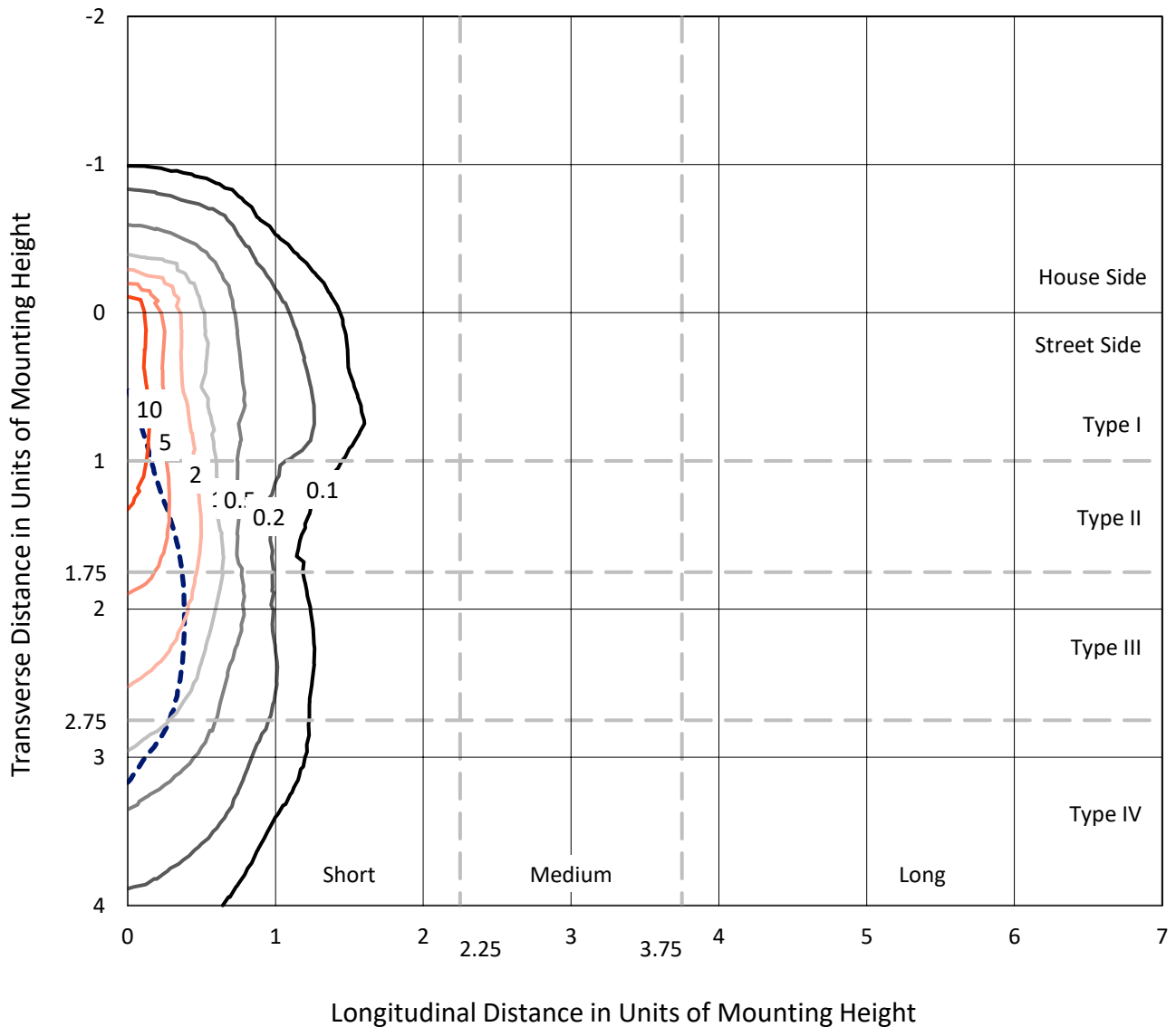
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

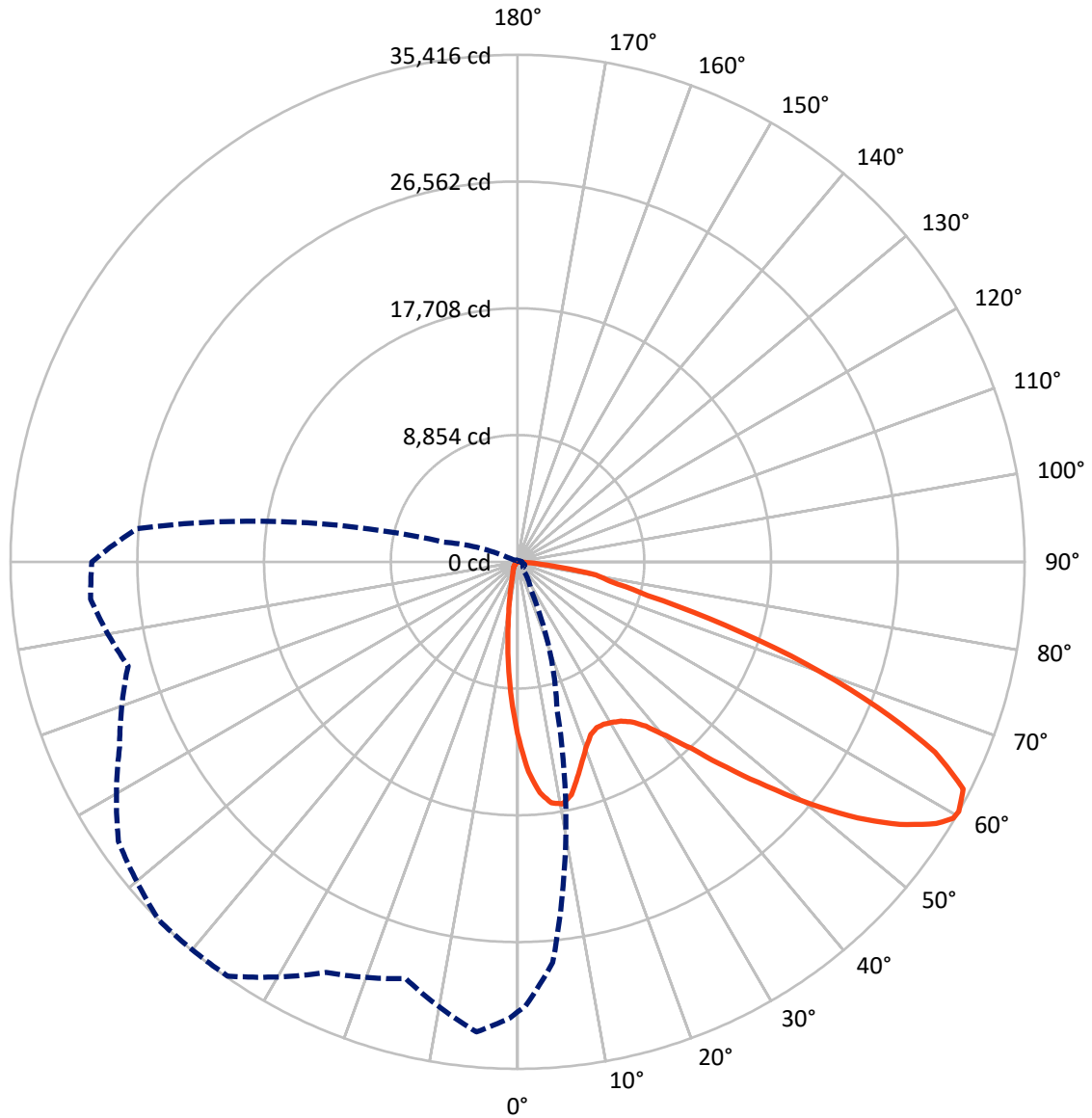
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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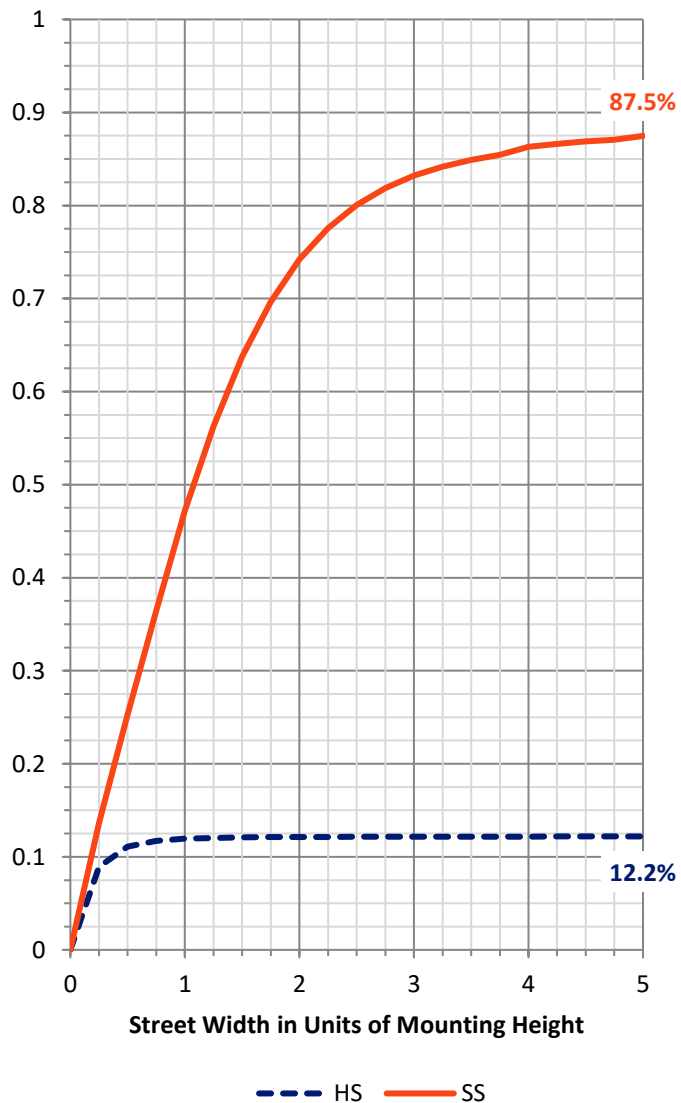
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4653.4	0.0	4653.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	33074.7	0.0	33074.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	37728.1	0.0	37728.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.5	2.5
10°-20°	1841.9	4.9
20°-30°	2700.8	7.2
30°-40°	4016.5	10.6
40°-50°	5845.3	15.5
50°-60°	8429.3	22.3
60°-70°	9271.4	24.6
70°-80°	4152.8	11.0
80°-90°	542.6	1.4
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°	37728.1	100.0
0°-180°	37728.1	100.0

Coefficient of Utilization



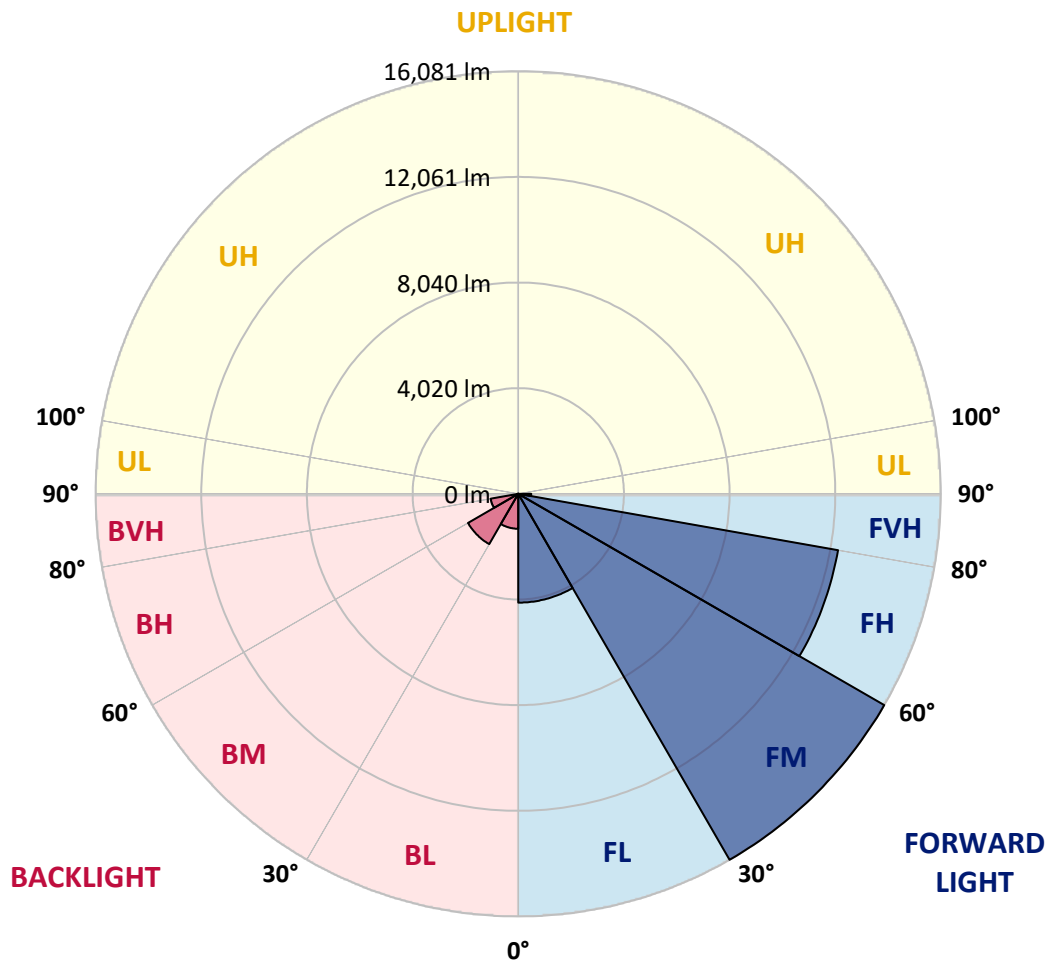
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4140.5	11.0			
FM (30°-60°)	16080.9	42.6			
FH (60°-80°)	12357.1	32.8			G5
FVH (80°-90°)	496.2	1.3			G3/500
BL (0°-30°)	1329.6	3.5	B3/2500		
BM (30°-60°)	2210.2	5.9	B2/2500		
BH (60°-80°)	1067.1	2.8	B3/2500		G3/2500
BVH (80°-90°)	46.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7
2.5°	13708.6	13648.4	13510.7	13092.0	12727.8	12251.7	11769.9	11391.3	11159.1	10731.7	10536.7
5°	13281.3	13310.0	12911.4	12050.9	11093.0	10439.2	9725.1	9157.2	8532.0	8136.3	7720.4
7.5°	12165.7	12108.3	11675.3	10476.5	9312.1	8365.7	7462.3	6728.1	6266.4	5896.4	5586.7
10°	11210.7	11167.6	10614.2	9071.2	7820.8	7112.4	6501.5	5859.2	5363.0	4820.9	4387.9
12.5°	10611.2	10513.8	9877.1	8265.3	7247.2	6587.6	5922.2	5254.0	4568.6	4020.8	3496.0
15°	10410.5	10270.0	9561.6	7987.1	6880.1	6042.7	5208.1	4439.6	3650.9	3045.7	2650.0
17.5°	10774.7	10542.4	9788.1	7938.4	6441.3	5331.4	4304.7	3303.9	2483.6	2021.8	1778.1
20°	11609.3	11342.6	10361.8	7889.6	5953.8	4534.2	3272.2	2334.4	1717.9	1465.5	1330.7
22.5°	12848.2	12481.1	11210.7	7967.0	5503.5	3757.0	2363.1	1649.0	1365.1	1207.4	1112.7
25°	14336.7	14029.8	12286.2	8242.4	5147.9	3146.1	1826.8	1348.0	1150.1	1052.5	980.9
27.5°	15968.5	15478.1	13677.1	8572.1	4823.8	2672.9	1603.2	1204.6	1023.8	934.9	897.7
30°	17130.0	16748.6	14841.5	8801.7	4419.5	2317.3	1465.5	1187.3	1026.7	920.6	851.8
32.5°	18277.2	17789.7	15816.5	8907.7	4124.1	2070.6	1267.6	1035.4	900.5	846.0	777.2
35°	19504.6	18994.2	16788.7	8850.3	3903.2	1907.1	1150.1	923.5	771.4	679.7	610.9
37.5°	20746.5	20207.3	17755.3	8643.9	3765.6	1841.2	1058.2	877.6	728.5	633.8	559.3
40°	22220.6	21500.8	18661.5	8474.7	3622.2	1806.8	998.0	848.9	696.9	596.5	521.9
42.5°	23425.1	22739.6	19519.0	8385.8	3524.6	1726.5	998.0	825.9	676.8	565.0	487.5
45°	24566.5	23855.3	20445.3	8457.4	3484.5	1626.1	1009.5	823.1	662.5	542.0	464.6
47.5°	25521.6	24905.0	21397.5	8727.1	3432.9	1517.2	949.2	863.2	653.9	521.9	441.7
50°	26648.6	26052.1	22656.5	9271.9	3341.1	1408.2	874.7	929.2	651.0	504.8	421.6
52.5°	28237.4	27592.2	24394.5	9891.4	3194.9	1241.8	805.8	920.6	639.6	476.1	401.5
55°	30179.0	29657.1	26407.7	10634.2	2994.1	1055.4	696.9	817.4	605.1	427.3	367.1
57.5°	31423.7	30979.2	27916.2	10955.5	2687.2	863.2	613.8	685.4	553.5	381.4	327.0
59°	31570.0	31168.5	28231.7	10849.3	2486.5	788.7	573.6	587.9	539.2	355.7	304.0
60°	31446.7	31030.8	28105.5	10642.9	2300.1	737.1	539.2	521.9	542.0	341.3	286.8
62.5°	30655.1	29943.9	26881.0	9596.1	2010.4	676.8	478.9	427.3	478.9	306.9	255.2
65°	29126.5	28059.6	24457.5	8122.0	1895.7	642.4	407.2	358.5	364.2	269.6	220.8
67.5°	26456.5	25111.4	21231.1	6599.1	1846.9	645.3	344.1	321.2	281.1	229.4	195.0
70°	22234.9	20892.7	17035.4	5429.0	1824.0	645.3	292.5	275.3	235.1	192.2	169.2
72.5°	15756.3	14310.9	11491.8	4264.5	1643.3	642.4	249.5	249.5	192.2	160.6	137.7
75°	8902.0	8913.5	7224.3	3017.0	1365.1	530.6	200.7	197.9	140.5	123.3	103.3
77.5°	5188.0	5096.3	4869.7	1296.3	633.8	240.9	140.5	120.4	97.5	88.9	74.6
80°	2667.1	2193.9	2136.6	470.4	226.6	152.0	97.5	68.8	63.1	57.4	51.6
82.5°	788.7	791.5	705.5	189.3	126.2	100.4	48.8	37.3	34.4	31.5	31.5
85°	54.5	34.4	40.1	57.4	77.5	40.1	2.9	8.6	8.6	11.4	14.4
87.5°	5.7	2.9	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°	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7
2.5°	10321.6	10447.8	10212.6	10218.4	10023.4	10086.4	9857.0	9931.5	9796.8	9900.0	10204.0
5°	7766.3	7795.0	7605.7	7545.5	7574.1	7691.7	7737.6	7528.3	7617.2	7442.3	7430.7
7.5°	5472.0	5506.4	5397.4	5383.1	5589.5	5540.8	5629.7	5414.6	5211.0	5299.9	5136.4
10°	4250.2	4106.9	3883.1	3820.1	3779.9	3805.7	3805.7	3610.7	3582.0	3504.6	3622.2
12.5°	3355.4	3180.5	2968.3	2681.5	2609.8	2604.1	2497.9	2325.9	2271.4	2205.4	2302.9
15°	2437.7	2366.0	2188.2	2027.7	1864.2	1832.6	1660.6	1520.0	1333.6	1307.8	1299.2
17.5°	1715.1	1608.9	1606.1	1514.2	1419.6	1356.5	1195.9	1035.4	963.6	955.0	955.0
20°	1284.8	1247.5	1187.3	1175.8	1147.1	1075.5	932.1	846.0	811.6	814.5	825.9
22.5°	1081.2	1055.4	1000.9	975.1	963.6	900.5	794.4	737.1	719.8	719.8	722.8
25°	966.5	943.5	883.3	843.2	828.8	783.0	699.8	656.7	642.4	642.4	642.4
27.5°	880.4	851.8	788.7	754.3	728.5	676.8	625.2	582.2	567.8	567.8	570.7
30°	820.2	788.7	731.3	685.4	645.3	599.4	556.4	519.1	501.9	499.0	501.9
32.5°	739.9	711.2	653.9	625.2	579.3	524.9	490.4	456.0	438.7	441.7	438.7
35°	576.4	567.8	527.7	536.3	510.5	464.6	433.0	395.8	375.7	372.8	378.5
37.5°	524.9	490.4	444.6	447.4	438.7	421.6	370.0	329.8	315.5	315.5	318.3
40°	484.7	450.3	398.6	372.8	375.7	375.7	321.2	278.2	263.8	261.0	266.7
42.5°	450.3	415.9	358.5	315.5	304.0	318.3	272.5	229.4	215.1	209.3	215.1
45°	427.3	390.1	324.0	275.3	240.9	258.1	223.7	189.3	172.1	172.1	169.2
47.5°	404.4	370.0	298.3	238.0	200.7	192.2	183.5	152.0	134.8	132.0	134.8
50°	384.3	349.9	269.6	206.5	169.2	149.1	149.1	120.4	109.0	103.3	106.1
52.5°	364.2	327.0	243.8	183.5	146.2	120.4	106.1	97.5	88.9	86.0	88.9
55°	335.6	298.3	218.0	157.8	126.2	100.4	83.2	80.3	74.6	68.8	74.6
57.5°	301.2	266.7	192.2	134.8	100.4	77.5	68.8	65.9	60.2	57.4	57.4
59°	281.1	249.5	177.8	117.6	88.9	68.8	63.1	60.2	54.5	48.8	51.6
60°	269.6	243.8	169.2	109.0	80.3	63.1	57.4	54.5	48.8	45.9	48.8
62.5°	238.0	218.0	149.1	88.9	63.1	45.9	40.1	43.1	40.1	37.3	40.1
65°	209.3	192.2	126.2	68.8	48.8	31.5	28.7	37.3	34.4	31.5	34.4
67.5°	186.4	166.3	106.1	51.6	34.4	17.2	20.1	31.5	31.5	28.7	31.5
70°	160.6	143.4	86.0	37.3	17.2	8.6	14.4	23.0	28.7	25.8	28.7
72.5°	132.0	111.9	65.9	25.8	8.6	0.0	8.6	20.1	28.7	25.8	28.7
75°	103.3	83.2	48.8	14.4	0.0	0.0	2.9	17.2	28.7	25.8	28.7
77.5°	74.6	60.2	28.7	2.9	0.0	0.0	2.9	17.2	28.7	25.8	28.7
80°	48.8	43.1	11.4	0.0	0.0	0.0	2.9	17.2	28.7	28.7	31.5
82.5°	31.5	23.0	0.0	0.0	0.0	0.0	5.7	23.0	31.5	34.4	34.4
85°	14.4	0.0	0.0	0.0	0.0	0.0	11.4	28.7	37.3	37.3	37.3
87.5°	0.0	0.0	0.0	0.0	0.0	5.7	20.1	34.4	43.1	43.1	43.1
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°	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7
2.5°	10255.7	10436.3	10691.5	11084.5	11402.8	11904.7	12289.0	12813.8	13344.4	13505.0	13754.5
5°	7548.3	7780.7	8360.0	8887.7	9220.3	10281.5	10952.5	12010.8	12960.1	13416.1	13912.2
7.5°	5242.5	5517.9	5959.5	6696.5	7396.3	8259.5	9343.7	10553.9	11944.8	12595.8	13295.6
10°	3679.5	4023.7	4646.0	5251.1	6131.6	6951.8	8021.5	9358.0	10892.3	11660.9	12538.5
12.5°	2323.0	2629.9	3453.0	4132.7	5231.1	6183.2	7169.8	8380.1	10158.1	10946.8	11867.4
15°	1327.9	1586.0	1970.3	2842.1	4060.9	5320.0	6550.3	7955.6	9782.4	10754.6	11749.9
17.5°	989.4	1058.2	1230.3	1723.6	2833.5	4304.7	5979.6	7826.5	10037.7	11179.1	12314.8
20°	831.7	877.6	957.9	1152.9	1806.8	3315.3	5423.2	7849.5	10863.6	12297.6	13375.9
22.5°	745.6	774.3	840.3	966.5	1233.2	2414.8	4772.2	7984.3	11864.6	13671.3	14916.0
25°	653.9	691.1	748.5	857.5	1026.7	1674.9	4129.8	8285.4	13266.9	15415.0	16585.1
27.5°	582.2	616.6	674.0	774.3	900.5	1279.1	3381.2	8543.5	14746.8	17170.2	18128.1
30°	510.5	544.9	602.2	682.6	797.3	1035.4	2575.4	8695.5	16183.6	18486.5	19223.6
32.5°	450.3	478.9	533.4	605.1	699.8	877.6	2030.5	8537.7	17282.0	19682.5	20175.8
35°	390.1	424.5	470.4	536.3	619.5	748.5	1689.2	7992.9	18225.6	20912.8	21090.6
37.5°	327.0	367.1	415.9	476.1	542.0	688.3	1356.5	7390.6	19235.1	22447.1	22154.6
40°	275.3	312.6	358.5	424.5	484.7	630.9	1043.9	6748.2	20324.9	23886.8	23316.1
42.5°	223.7	263.8	318.3	378.5	478.9	550.6	808.8	6082.9	21302.9	25140.1	24365.8
45°	177.8	212.2	269.6	347.0	476.1	473.2	625.2	5426.0	22039.9	26034.9	25148.7
47.5°	140.5	169.2	226.6	338.4	438.7	401.5	501.9	5018.8	22814.2	26840.8	25748.1
50°	111.9	140.5	195.0	352.7	384.3	344.1	421.6	5084.8	23562.7	27250.9	25994.7
52.5°	94.6	123.3	169.2	278.2	295.4	301.2	370.0	5388.8	24529.3	27689.7	26485.2
55°	83.2	109.0	143.4	195.0	229.4	269.6	338.4	5609.6	25822.7	28630.3	27566.4
57.5°	65.9	94.6	129.1	166.3	189.3	235.1	312.6	5626.9	26992.7	29837.8	29003.1
59°	60.2	86.0	120.4	157.8	169.2	212.2	295.4	5480.5	27035.8	30018.4	29662.8
60°	54.5	83.2	114.7	146.2	160.6	200.7	281.1	5311.3	26645.7	29731.6	29935.2
62.5°	45.9	71.7	100.4	117.6	137.7	166.3	243.8	4697.7	24755.8	28432.4	29430.5
65°	40.1	63.1	86.0	97.5	114.7	143.4	215.1	3759.9	22668.0	26671.6	27985.1
67.5°	37.3	57.4	74.6	83.2	100.4	132.0	192.2	2655.7	19963.5	24437.4	25814.1
70°	34.4	54.5	65.9	77.5	88.9	111.9	163.5	1548.7	15377.8	20519.9	21973.9
72.5°	34.4	51.6	57.4	65.9	77.5	100.4	152.0	837.5	10513.8	15653.0	17531.6
75°	34.4	48.8	51.6	57.4	68.8	91.8	134.8	438.7	6797.0	10875.1	13421.9
77.5°	34.4	45.9	51.6	54.5	65.9	80.3	117.6	275.3	4528.4	7617.2	9071.2
80°	37.3	45.9	48.8	54.5	63.1	74.6	97.5	183.5	2661.4	4582.9	5520.7
82.5°	40.1	45.9	51.6	57.4	65.9	71.7	86.0	114.7	1227.4	3031.4	3430.0
85°	43.1	48.8	54.5	60.2	68.8	71.7	80.3	83.2	200.7	1368.0	1849.8
87.5°	45.9	51.6	57.4	63.1	74.6	74.6	74.6	74.6	68.8	146.2	372.8
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: P651575

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7	12469.7
2.5°	14069.9	14394.1	14620.6	14678.0	14514.5	14440.0	14233.4	13912.2	13717.2	13708.6
5°	14827.1	15587.1	16114.8	16203.7	15888.3	15354.8	14720.9	13903.7	13424.7	13281.3
7.5°	14698.1	16028.8	16877.7	17001.0	16470.4	15452.3	14224.8	12908.5	12386.5	12165.7
10°	14167.5	15790.7	17003.8	17198.9	16490.5	15056.5	13496.4	12028.0	11379.9	11210.7
12.5°	13714.4	15354.8	16433.1	16702.7	16166.4	14735.3	13060.5	11463.0	10769.0	10611.2
15°	13516.5	14838.6	15498.2	15635.9	15547.0	14534.6	13014.6	11377.0	10582.6	10410.5
17.5°	13714.4	14399.8	14482.9	14623.5	14821.4	14514.5	13456.3	11844.5	10987.0	10774.7
20°	14233.4	14018.4	13674.2	13734.5	14187.6	14597.7	14242.1	12879.7	11835.9	11609.3
22.5°	15116.7	13923.7	13143.7	13092.0	13665.6	14875.9	15394.9	14282.2	13071.9	12848.2
25°	16200.9	14161.8	12948.6	12836.8	13462.0	15283.1	16648.2	16000.1	14678.0	14336.7
27.5°	17382.4	14655.0	12948.6	12839.6	13444.7	15644.5	17720.8	17520.0	16341.4	15968.5
30°	18030.5	15062.3	13135.0	13011.7	13657.0	15853.8	18294.4	18870.9	17591.8	17130.0
32.5°	18609.9	15627.2	13499.2	13266.9	14101.6	16163.5	18807.8	20018.0	18586.9	18277.2
35°	19143.3	16232.4	14001.1	13731.6	14686.6	16588.0	19375.6	21222.6	19972.2	19504.6
37.5°	19731.2	16935.0	14784.1	14554.7	15664.6	17413.9	20049.5	22805.6	21334.4	20746.5
40°	20370.8	17749.5	16071.8	15974.3	17219.0	18348.9	20901.4	24494.8	22888.8	22220.6
42.5°	21021.8	18687.3	17649.1	17809.7	18979.9	19659.6	21776.0	25794.0	24162.2	23425.1
45°	21612.6	19886.1	19699.7	20494.1	21033.2	20938.6	22424.2	26708.8	25272.0	24566.5
47.5°	22358.2	21632.6	22180.4	23405.0	23419.3	22329.6	22914.6	27457.4	26227.0	25521.6
50°	23192.8	23694.7	25383.9	26631.4	26295.9	23697.5	23488.2	28343.6	27213.6	26648.6
52.5°	24159.3	26003.4	28343.6	29728.8	28945.8	25188.9	24443.2	29301.4	28779.5	28237.4
55°	25283.5	27577.8	31294.6	32398.8	31610.1	27041.5	25894.4	30600.6	30549.0	30179.0
57.5°	26554.0	29241.2	33004.0	34498.1	33795.5	29215.4	27922.0	31825.2	31630.2	31423.7
59°	27557.7	30095.9	33758.2	35306.9	34882.4	30738.3	29284.2	32588.1	31879.7	31570.0
60°	28165.8	30675.1	34036.4	35415.9	35318.3	31644.6	30147.5	32960.9	31876.8	31446.7
62.5°	29969.7	31687.5	33930.2	34931.2	35312.6	33382.5	32679.8	33371.0	31286.0	30655.1
65°	30612.1	31352.0	32172.2	32048.9	32375.8	33293.6	34297.3	32920.8	30024.1	29126.5
67.5°	29361.7	27672.4	27962.2	27139.1	26978.4	29599.7	33640.6	30718.2	27554.9	26456.5
70°	24750.0	21199.6	21053.3	21431.9	20393.7	23964.3	30207.7	26476.5	23479.6	22234.9
72.5°	19481.7	14982.0	13748.8	15142.5	15111.0	18282.9	25094.2	18787.7	15862.4	15756.3
75°	15320.4	10430.6	9154.4	9380.9	9816.8	13235.4	19986.4	11930.5	9768.1	8902.0
77.5°	10284.3	7390.6	6894.4	6616.2	7086.6	8497.6	12644.6	6470.0	5477.7	5188.0
80°	5928.0	5368.7	6097.2	5535.0	5787.4	5354.4	6289.3	2968.3	2463.5	2667.1
82.5°	3857.3	3057.2	3257.9	2420.5	3309.6	3338.3	2019.0	877.6	742.8	788.7
85°	2411.9	1434.0	805.8	573.6	1141.4	2099.3	630.9	54.5	63.1	54.5
87.5°	625.2	238.0	100.4	149.1	183.5	163.5	146.2	8.6	2.9	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)