

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: P647558

Luminaire Tested: **GALN-SA7D-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647558
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-SA7D-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA 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: 23324 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

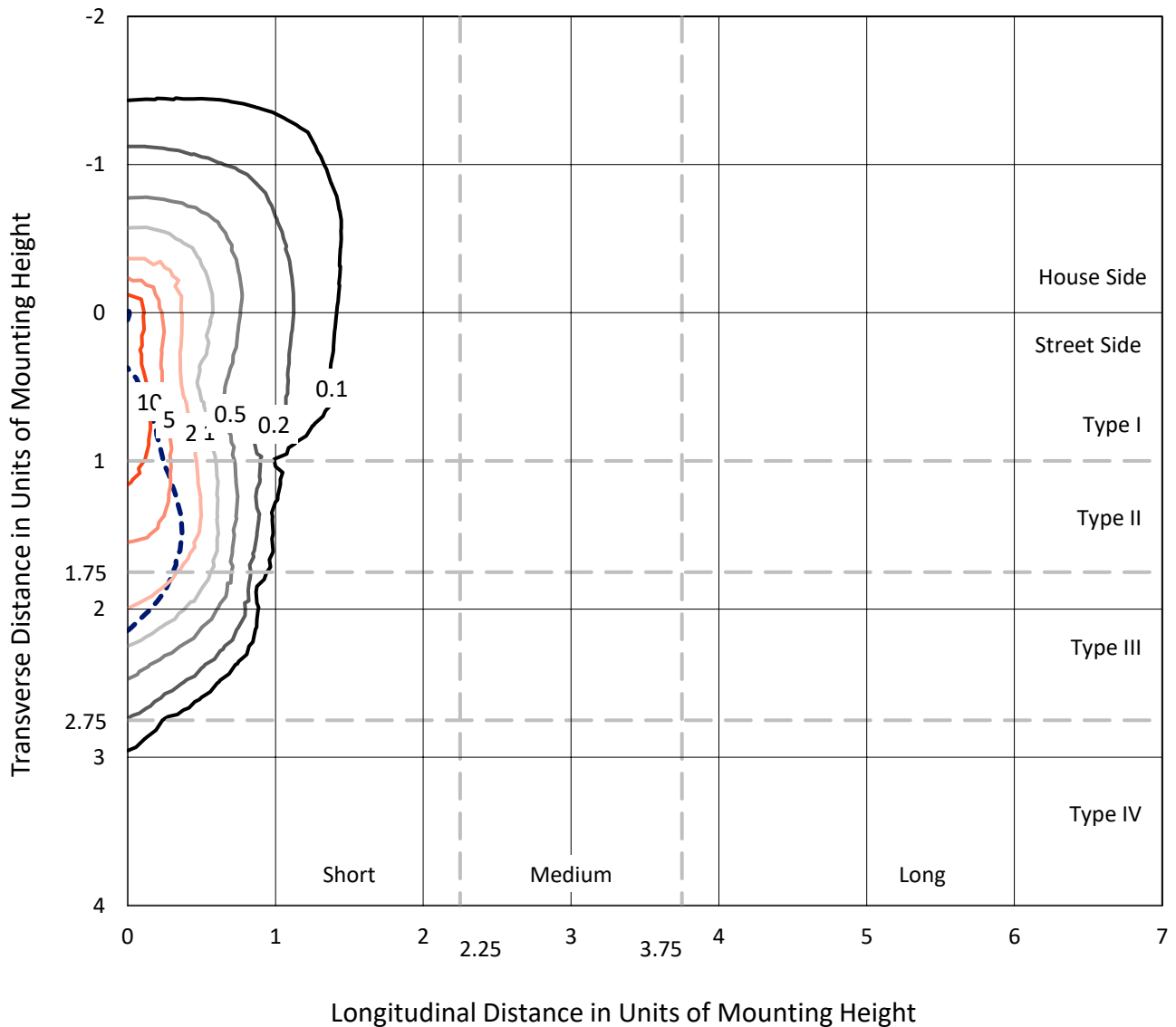
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

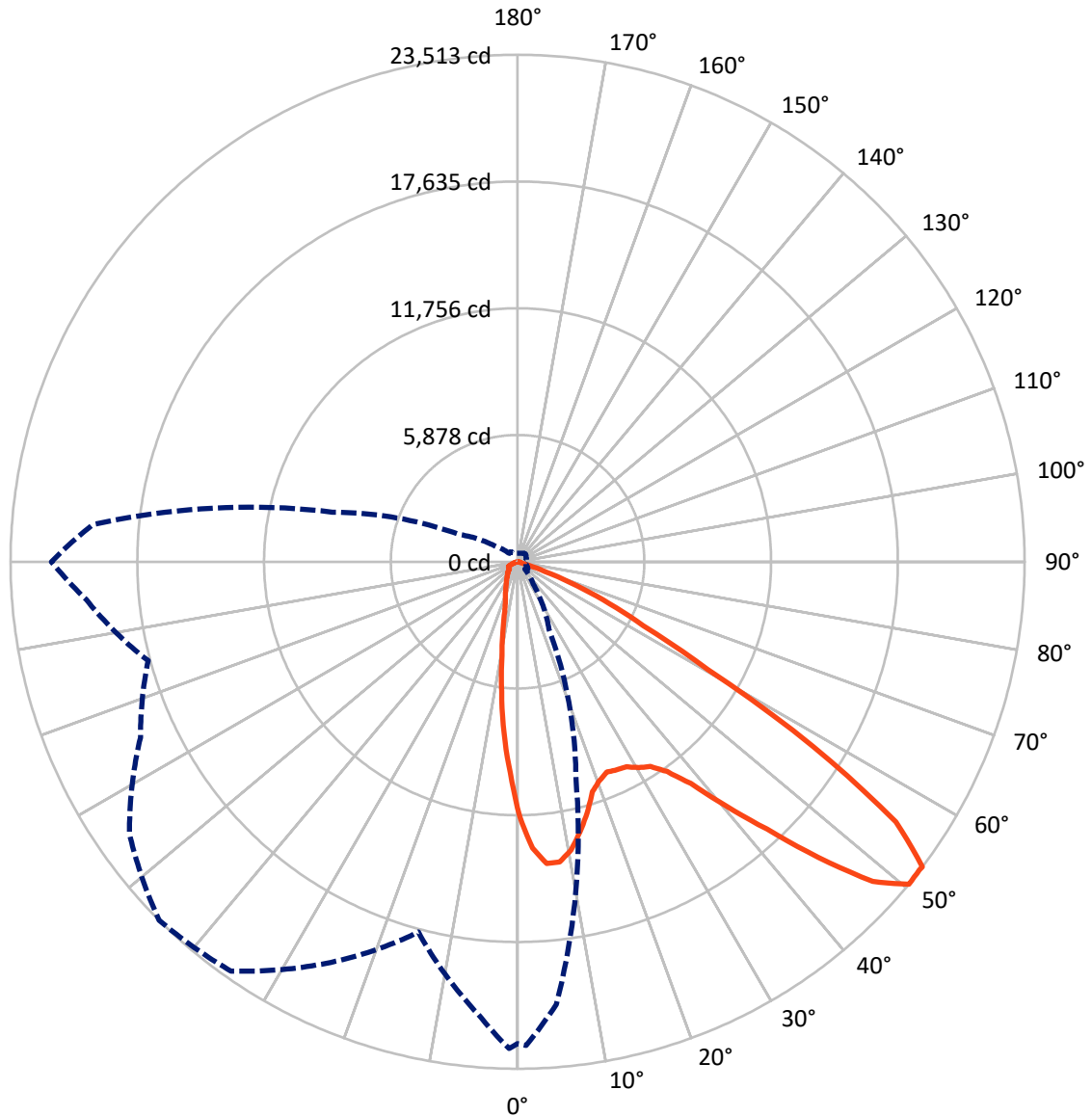
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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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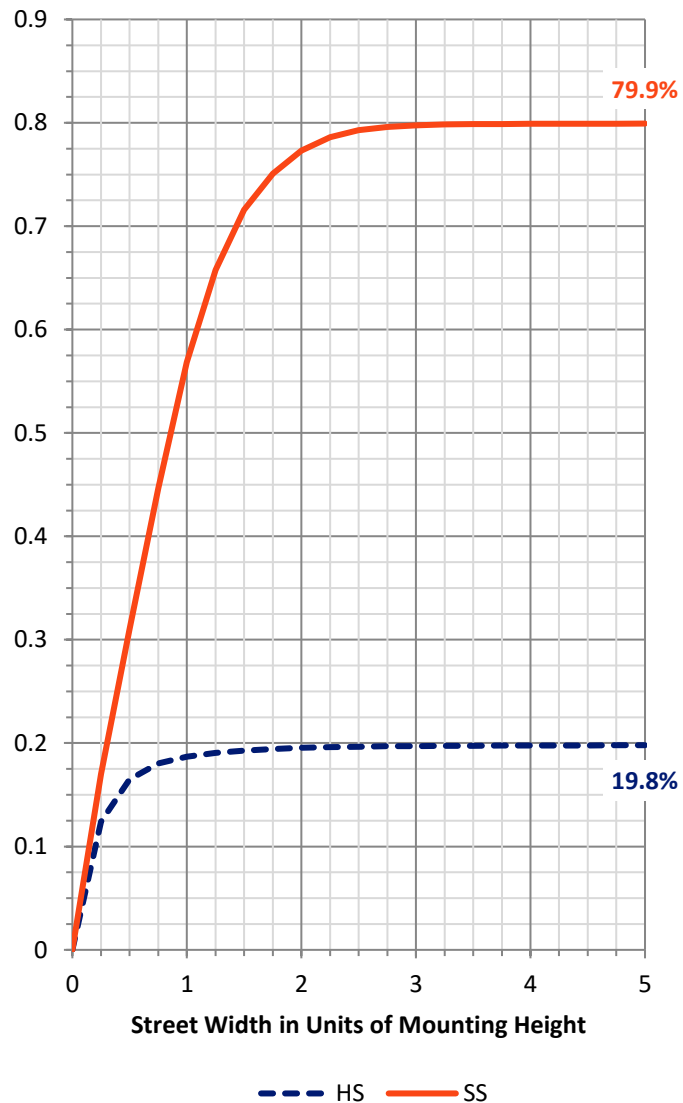
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4671.8	0.0	4671.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	18652.2	0.0	18652.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	23324.0	0.0	23324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.1	3.7
10°-20°	1713.5	7.3
20°-30°	2574.2	11.0
30°-40°	3863.8	16.6
40°-50°	5430.3	23.3
50°-60°	5857.5	25.1
60°-70°	2719.6	11.7
70°-80°	255.9	1.1
80°-90°	47.2	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°	23324.0	100.0
0°-180°	23324.0	100.0

Coefficient of Utilization



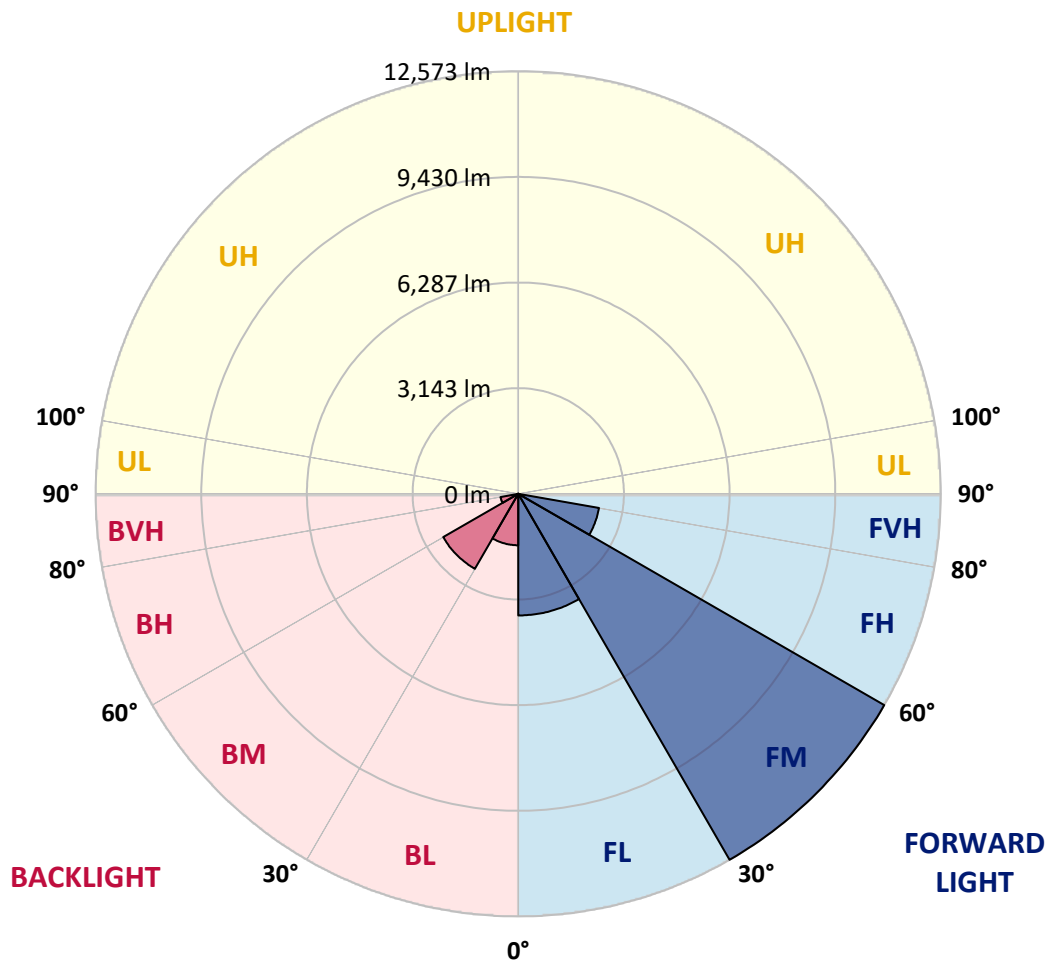
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3618.5	15.5			
FM (30°-60°)	12573.4	53.9			
FH (60°-80°)	2439.1	10.5			G2/5000
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	1531.3	6.6	B3/2500		
BM (30°-60°)	2578.1	11.1	B3/5000		
BH (60°-80°)	536.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	25.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2
2.5°	12295.6	12105.9	11865.3	11666.2	11370.1	10773.1	10611.1	10416.8	10254.8	10037.4	9731.9
5°	11180.4	11120.2	11009.1	10259.4	9718.0	8996.1	8403.8	8153.8	7825.3	7556.9	7362.5
7.5°	10328.9	10088.3	9736.5	8982.2	8116.9	7344.1	6686.9	6302.8	5867.8	5719.7	5455.9
10°	9417.2	9472.7	8954.5	7894.8	6848.9	6224.1	5816.9	5446.7	5053.4	4794.2	4419.4
12.5°	9125.7	8945.2	8547.2	7237.6	6344.5	5761.4	5266.2	4808.1	4391.6	3975.1	3614.2
15°	9315.4	9037.8	8482.5	7098.8	5955.7	5229.2	4609.1	3989.0	3604.9	3072.7	2697.9
17.5°	9995.7	9773.6	9028.5	7246.9	5756.8	4720.2	3799.3	3160.7	2572.9	2091.7	1902.0
20°	11129.4	10814.8	9880.0	7436.6	5460.6	4104.7	3082.0	2295.3	1740.0	1536.4	1429.9
22.5°	12240.1	12068.8	10888.8	7802.2	5196.8	3558.7	2313.8	1545.6	1300.3	1263.4	1193.9
25°	14354.9	13841.2	12429.8	8463.9	4993.2	3045.0	1744.6	1244.8	1101.4	1073.6	1082.9
27.5°	15613.6	15183.2	13855.1	8903.6	4766.4	2651.6	1476.2	1143.0	1045.9	985.7	962.5
30°	16821.4	16321.6	14563.2	9162.7	4280.6	2235.2	1309.6	1096.7	1073.6	985.7	957.9
32.5°	17751.5	17261.1	15585.8	9551.4	4081.5	1966.7	1078.3	856.1	795.9	786.7	870.0
35°	19176.8	18654.0	16460.5	9764.3	3928.9	1827.9	934.7	763.6	694.1	666.4	671.0
37.5°	20505.0	20148.7	17270.3	9847.6	3766.9	1786.3	837.6	684.9	624.8	606.2	601.6
40°	21615.7	20819.7	18038.5	9935.5	3697.5	1707.6	777.4	624.8	583.1	555.3	555.3
42.5°	22124.7	21314.8	18899.2	9884.6	3678.9	1582.7	777.4	573.9	541.4	513.6	509.0
45°	22013.6	21685.0	19283.3	9861.5	3678.9	1457.7	708.0	559.9	513.6	476.6	467.4
47.5°	22300.5	21870.1	19764.6	9958.7	3604.9	1369.8	597.0	587.7	485.9	439.7	430.3
50°	22351.4	22434.8	20602.2	10463.1	3442.9	1258.8	467.4	578.5	467.4	398.0	388.8
52°	22684.6	22166.3	20856.7	10731.5	3271.8	1175.4	393.4	495.2	448.9	370.2	361.0
52.5°	22226.5	22564.3	20916.8	10828.7	3290.2	1119.8	379.4	485.9	439.7	370.2	347.1
55°	21712.8	22036.8	20671.6	11036.9	3017.2	879.2	296.1	351.7	398.0	323.9	310.1
57.5°	18871.5	19200.0	17964.4	10106.7	2457.3	620.1	245.2	263.8	351.7	300.8	286.9
60°	16775.1	16539.2	15076.8	8431.5	1744.6	347.1	194.3	203.6	384.1	277.7	273.0
62.5°	15331.3	14826.9	12601.1	6511.0	1064.3	231.4	152.7	157.3	296.1	259.2	259.2
65°	11342.3	10777.8	8371.4	3938.1	522.9	162.0	115.7	125.0	185.1	222.1	222.1
67.5°	6474.1	6256.6	4044.5	1777.0	217.5	101.8	87.9	97.2	143.4	180.5	171.2
70°	2975.6	2670.1	1554.9	374.8	101.8	69.5	69.5	78.7	115.7	134.2	125.0
72.5°	870.0	823.7	379.4	60.1	41.7	41.7	46.3	60.1	87.9	101.8	92.6
75°	64.8	41.7	27.8	18.5	18.5	27.8	37.0	60.1	87.9	97.2	78.7
77.5°	4.6	9.2	4.6	4.6	13.9	27.8	41.7	74.1	115.7	120.3	87.9
80°	4.6	4.6	0.0	4.6	13.9	27.8	46.3	83.3	129.6	138.8	74.1
82.5°	0.0	0.0	0.0	4.6	18.5	37.0	55.5	87.9	120.3	148.1	78.7
85°	0.0	0.0	0.0	4.6	27.8	50.9	64.8	23.2	13.9	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°	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2
2.5°	9949.4	9829.1	9782.8	9824.5	9810.6	9796.7	10051.2	9995.7	9986.4	10069.7	10051.2
5°	7469.0	7256.1	7839.2	7603.2	7848.5	7996.5	8024.3	8038.2	8209.4	8029.0	8265.0
7.5°	5321.7	5377.3	5372.7	5530.0	5812.3	6062.2	6210.3	6094.6	6085.3	6062.2	5960.4
10°	4252.8	4155.6	4137.1	4100.1	4188.0	4400.9	4581.3	4437.9	4336.1	4474.9	4433.3
12.5°	3475.3	3341.1	3267.1	3119.0	3123.6	3267.1	3267.1	3267.1	3368.9	3447.5	3507.8
15°	2665.5	2554.5	2554.5	2406.4	2374.0	2378.6	2452.7	2461.9	2623.8	2670.1	2693.3
17.5°	1864.9	1804.7	1874.2	1934.3	1897.3	1906.6	1934.3	1943.6	1966.7	1948.3	1994.5
20°	1434.5	1425.3	1443.9	1550.3	1629.0	1675.2	1642.8	1596.5	1568.7	1504.0	1504.0
22.5°	1217.1	1235.6	1268.0	1355.9	1457.7	1485.4	1448.5	1342.0	1258.8	1249.4	1254.1
25°	1082.9	1101.4	1152.3	1207.8	1263.4	1309.6	1272.6	1193.9	1147.6	1106.0	1106.0
27.5°	999.6	1008.8	1036.6	1078.3	1124.5	1161.5	1147.6	1106.0	1055.1	1036.6	995.0
30°	934.7	948.7	981.0	990.3	1032.0	1050.5	1027.3	1018.1	985.7	962.5	948.7
32.5°	902.4	897.8	920.9	930.1	934.7	948.7	920.9	934.7	930.1	893.2	879.2
35°	680.3	717.3	777.4	828.3	842.2	860.8	856.1	837.6	786.7	745.0	694.1
37.5°	610.8	634.0	666.4	708.0	763.6	786.7	777.4	731.2	671.0	643.2	634.0
40°	564.5	578.5	606.2	634.0	689.5	731.2	698.7	657.1	610.8	587.7	573.9
42.5°	522.9	527.6	541.4	569.2	610.8	675.7	620.1	564.5	546.1	532.2	522.9
45°	476.6	476.6	495.2	509.0	555.3	615.4	559.9	509.0	499.8	490.5	485.9
47.5°	439.7	444.3	453.5	472.0	509.0	550.7	513.6	472.0	448.9	444.3	435.0
50°	393.4	398.0	416.5	435.0	481.3	504.4	481.3	435.0	411.9	398.0	398.0
52°	356.3	370.2	388.8	425.7	458.1	495.2	467.4	416.5	388.8	374.8	365.6
52.5°	351.7	361.0	379.4	421.1	458.1	490.5	462.8	411.9	379.4	370.2	361.0
55°	314.7	328.5	361.0	411.9	453.5	490.5	453.5	407.2	361.0	337.8	328.5
57.5°	300.8	310.1	351.7	416.5	448.9	490.5	453.5	407.2	361.0	319.3	310.1
60°	286.9	305.4	351.7	402.6	444.3	495.2	458.1	402.6	351.7	300.8	300.8
62.5°	273.0	286.9	347.1	393.4	425.7	476.6	439.7	393.4	337.8	286.9	282.3
65°	236.0	259.2	305.4	328.5	365.6	411.9	374.8	342.4	296.1	254.6	249.9
67.5°	180.5	189.7	226.8	254.6	277.7	319.3	300.8	259.2	226.8	194.3	194.3
70°	125.0	134.2	162.0	175.9	199.0	222.1	208.3	175.9	152.7	134.2	129.6
72.5°	87.9	92.6	101.8	111.0	120.3	129.6	125.0	101.8	87.9	83.3	78.7
75°	69.5	78.7	83.3	78.7	74.1	69.5	69.5	60.1	50.9	46.3	46.3
77.5°	69.5	74.1	69.5	60.1	50.9	46.3	41.7	37.0	27.8	23.2	27.8
80°	60.1	60.1	60.1	50.9	46.3	41.7	37.0	32.4	27.8	23.2	23.2
82.5°	64.8	64.8	60.1	50.9	50.9	41.7	41.7	37.0	32.4	23.2	23.2
85°	0.0	0.0	0.0	9.2	23.2	41.7	41.7	37.0	32.4	27.8	27.8
87.5°	0.0	0.0	0.0	0.0	4.6	9.2	18.5	23.2	27.8	27.8	27.8
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°	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2
2.5°	10217.8	10393.6	10726.9	11060.0	11263.6	11504.3	11939.3	12170.6	12471.5	12619.5	12911.0
5°	8232.5	8649.0	8797.1	9176.6	9583.8	9991.1	10638.9	11351.5	11943.9	12351.1	12878.7
7.5°	6006.6	6103.9	6677.7	6932.2	7598.5	8339.0	9222.9	10120.6	10870.3	11536.6	11939.3
10°	4502.6	4859.0	5219.9	5705.9	6242.7	7006.2	7853.1	8843.4	9815.2	10481.6	10990.6
12.5°	3618.8	3901.1	4382.4	4905.3	5567.1	6071.5	6922.9	7904.0	9162.7	9815.2	10486.2
15°	2739.6	3100.5	3646.6	4188.0	4886.8	5419.0	6279.7	7515.2	9134.9	10032.7	10611.1
17.5°	2031.5	2276.8	2767.4	3373.6	4086.2	4835.9	5997.4	7473.6	9445.0	10514.0	11110.9
20°	1554.9	1638.2	1948.3	2489.6	3262.4	4243.5	5539.3	7654.1	10361.3	11684.8	12291.0
22.5°	1258.8	1295.7	1416.1	1790.9	2540.6	3725.2	5321.7	7779.0	11393.2	13086.9	13896.8
25°	1096.7	1087.5	1166.2	1328.1	1985.2	3239.3	5044.1	8251.0	12656.6	14734.3	15460.9
27.5°	999.6	999.6	1036.6	1152.3	1647.4	2924.7	4868.2	8588.9	13929.2	16182.8	16576.2
30°	948.7	957.9	1064.3	1101.4	1369.8	2549.8	4576.7	8931.3	15146.2	17108.3	17649.8
32.5°	879.2	842.2	819.1	911.6	1152.3	2212.0	4285.2	9074.7	16131.9	18242.1	18704.9
35°	675.7	657.1	684.9	754.3	990.3	1925.1	3961.3	9236.7	17265.7	19556.4	19648.9
37.5°	610.8	606.2	624.8	684.9	833.0	1675.2	3729.9	9195.1	18131.1	20643.9	20393.9
40°	564.5	564.5	578.5	629.4	745.0	1499.4	3489.2	9158.0	18968.6	21865.5	21134.3
42.5°	527.6	527.6	550.7	583.1	708.0	1383.6	3308.7	9107.2	19672.0	22615.2	21569.4
45°	476.6	490.5	527.6	559.9	717.3	1305.0	3174.5	8912.8	19912.7	22605.9	21361.1
47.5°	439.7	458.1	495.2	541.4	647.9	1281.8	3082.0	8741.6	19829.4	22050.6	20708.6
50°	398.0	421.1	472.0	550.7	550.7	1235.6	2984.8	8894.3	19769.2	21620.3	20083.9
52°	370.2	388.8	453.5	536.8	481.3	1138.4	2924.7	9190.5	20014.5	21564.8	19806.2
52.5°	365.6	379.4	439.7	527.6	458.1	1119.8	2883.0	9259.9	20093.1	21425.9	19995.9
55°	323.9	342.4	402.6	411.9	374.8	920.9	2748.8	9417.2	19704.4	21152.9	19815.5
57.5°	305.4	314.7	356.3	337.8	323.9	694.1	2364.7	9172.0	17501.7	18788.2	18436.4
60°	282.3	291.5	333.2	263.8	273.0	485.9	1777.0	7964.1	14054.1	15655.2	16289.2
62.5°	273.0	268.4	314.7	212.9	231.4	351.7	1254.1	6474.1	10828.7	12887.9	13984.7
65°	240.6	236.0	226.8	180.5	199.0	273.0	749.6	4225.0	7631.0	9750.4	10352.0
67.5°	185.1	194.3	166.6	143.4	166.6	212.9	416.5	1892.7	4002.9	5849.3	6335.3
70°	129.6	138.8	134.2	125.0	148.1	175.9	240.6	647.9	1656.7	3072.7	3387.4
72.5°	78.7	97.2	101.8	106.4	129.6	152.7	171.2	208.3	439.7	1087.5	1351.3
75°	46.3	64.8	78.7	92.6	106.4	129.6	143.4	148.1	152.7	203.6	328.5
77.5°	32.4	46.3	69.5	87.9	106.4	129.6	152.7	162.0	152.7	143.4	152.7
80°	27.8	46.3	64.8	83.3	111.0	134.2	152.7	152.7	148.1	129.6	138.8
82.5°	27.8	46.3	69.5	87.9	106.4	129.6	148.1	152.7	138.8	129.6	134.2
85°	32.4	50.9	74.1	92.6	115.7	106.4	97.2	78.7	74.1	60.1	64.8
87.5°	32.4	46.3	46.3	50.9	55.5	55.5	55.5	50.9	41.7	37.0	37.0
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: P647558

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2	11828.2
2.5°	12925.0	13295.2	13281.2	13290.6	13235.0	12860.1	12679.7	12221.5	12351.1	12295.6
5°	13420.2	13785.7	14100.3	14063.4	13637.6	13128.6	12374.3	11661.6	11467.3	11180.4
7.5°	12925.0	13804.2	14095.7	14054.1	13424.8	12772.2	11569.1	10856.4	10518.6	10328.9
10°	12138.2	13156.4	13517.3	13591.3	13165.6	12175.3	11069.3	9926.2	9745.8	9417.2
12.5°	11689.4	12429.8	12651.9	12850.9	12702.8	11962.4	10689.8	9593.1	9343.1	9125.7
15°	11323.8	11763.4	11856.0	12082.7	12170.6	11772.6	10888.8	9954.0	9338.5	9315.4
17.5°	11661.6	11481.1	11143.3	11212.7	11490.4	11777.3	11402.4	10666.7	10069.7	9995.7
20°	12221.5	11425.6	10662.0	10833.3	11064.7	11943.9	12179.9	11661.6	11319.2	11129.4
22.5°	12864.8	11522.8	10509.3	10592.7	11032.2	12318.7	13438.6	13151.7	12513.1	12240.1
25°	14054.1	11791.2	10629.6	10685.2	11286.8	12841.7	14577.0	14789.9	14410.4	14354.9
27.5°	15215.6	12485.3	10893.4	10768.5	11416.4	13350.7	15266.5	16409.6	15743.2	15613.6
30°	15808.0	13049.9	11286.8	11073.9	11953.1	13660.8	15683.0	17464.7	16881.6	16821.4
32.5°	16715.0	13563.6	11592.2	11319.2	12254.0	14044.8	16460.5	18616.9	18052.4	17751.5
35°	17094.5	14123.5	12263.2	11943.9	13114.7	14581.7	16858.5	19644.3	19468.4	19176.8
37.5°	17825.6	14725.1	13054.6	13036.0	14155.9	15280.4	17575.7	21041.8	21009.5	20505.0
40°	17885.8	15382.2	14304.0	14887.1	15766.3	16497.5	18205.1	21430.6	21958.1	21615.7
42.5°	17978.3	16534.5	16465.1	16946.4	17700.7	17543.3	18228.2	21523.1	22328.3	22124.7
45°	18020.0	17686.8	18663.2	19551.7	19866.4	18913.1	18010.7	21347.2	22522.7	22013.6
47.5°	17686.8	18677.1	20440.2	22157.1	22249.6	19755.3	17918.2	21166.8	22638.3	22300.5
50°	17733.1	19297.2	21976.6	23512.9	23175.2	20500.3	17774.7	21055.7	22578.2	22351.4
52°	17622.0	19311.1	22194.1	23485.2	23249.2	20088.5	17529.4	20629.9	22522.7	22684.6
52.5°	17746.9	19227.8	21967.3	23503.7	23198.3	20292.1	17497.1	20865.9	22555.0	22226.5
55°	17316.6	18237.5	20639.2	21291.7	21245.5	18418.0	16502.1	20083.9	21708.2	21712.8
57.5°	15650.6	15808.0	16187.4	16173.6	15960.7	14479.9	14114.3	18468.9	19352.7	18871.5
60°	13790.4	11573.7	10551.0	10134.5	9898.5	9657.8	12485.3	16895.5	16978.7	16775.1
62.5°	11916.2	8024.3	6663.8	6548.1	6603.6	7482.9	12068.8	16270.7	15771.0	15331.3
65°	9616.2	5849.3	4840.5	4687.8	5229.2	6177.9	9768.9	12476.1	11707.9	11342.3
67.5°	6039.0	4266.6	3271.8	2984.8	3637.3	4252.8	6418.5	7839.2	6978.5	6474.1
70°	3581.8	2383.2	1480.8	1328.1	1494.7	2267.6	3595.7	3910.4	3234.7	2975.6
72.5°	1411.4	874.6	411.9	351.7	365.6	795.9	1323.5	1291.1	976.4	870.0
75°	379.4	263.8	143.4	115.7	97.2	148.1	212.9	138.8	50.9	64.8
77.5°	175.9	157.3	125.0	97.2	74.1	55.5	27.8	9.2	9.2	4.6
80°	152.7	134.2	115.7	97.2	74.1	46.3	23.2	4.6	4.6	4.6
82.5°	143.4	125.0	106.4	87.9	69.5	46.3	23.2	4.6	0.0	0.0
85°	60.1	78.7	87.9	83.3	74.1	46.3	23.2	4.6	0.0	0.0
87.5°	32.4	27.8	23.2	18.5	13.9	9.2	9.2	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)