

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: P651133

Luminaire Tested: **GALN-SA9C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651133
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-SA9C-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 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: 29632.6 lumens
Efficiency: N/A
Efficacy: 61.6 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

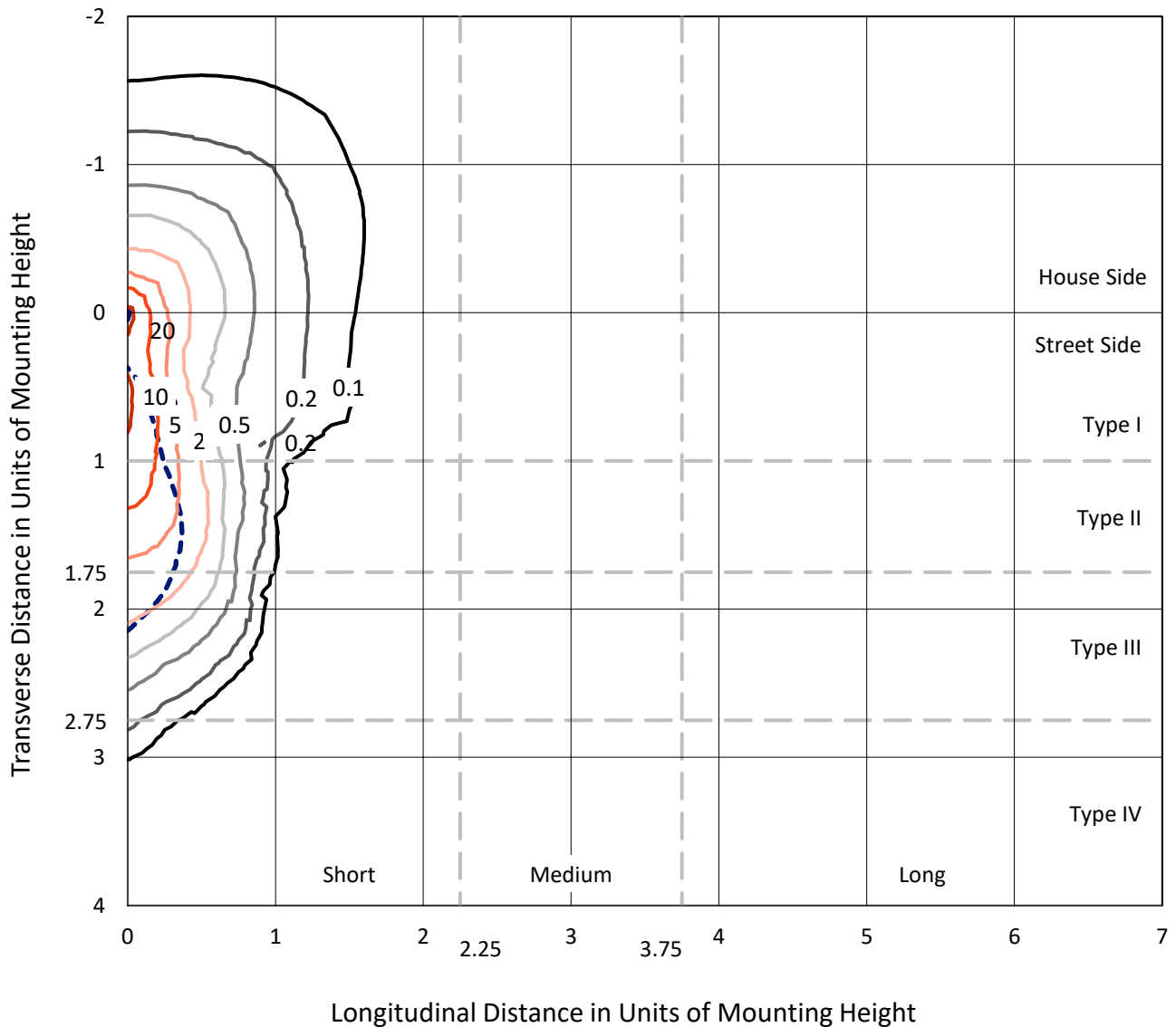
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

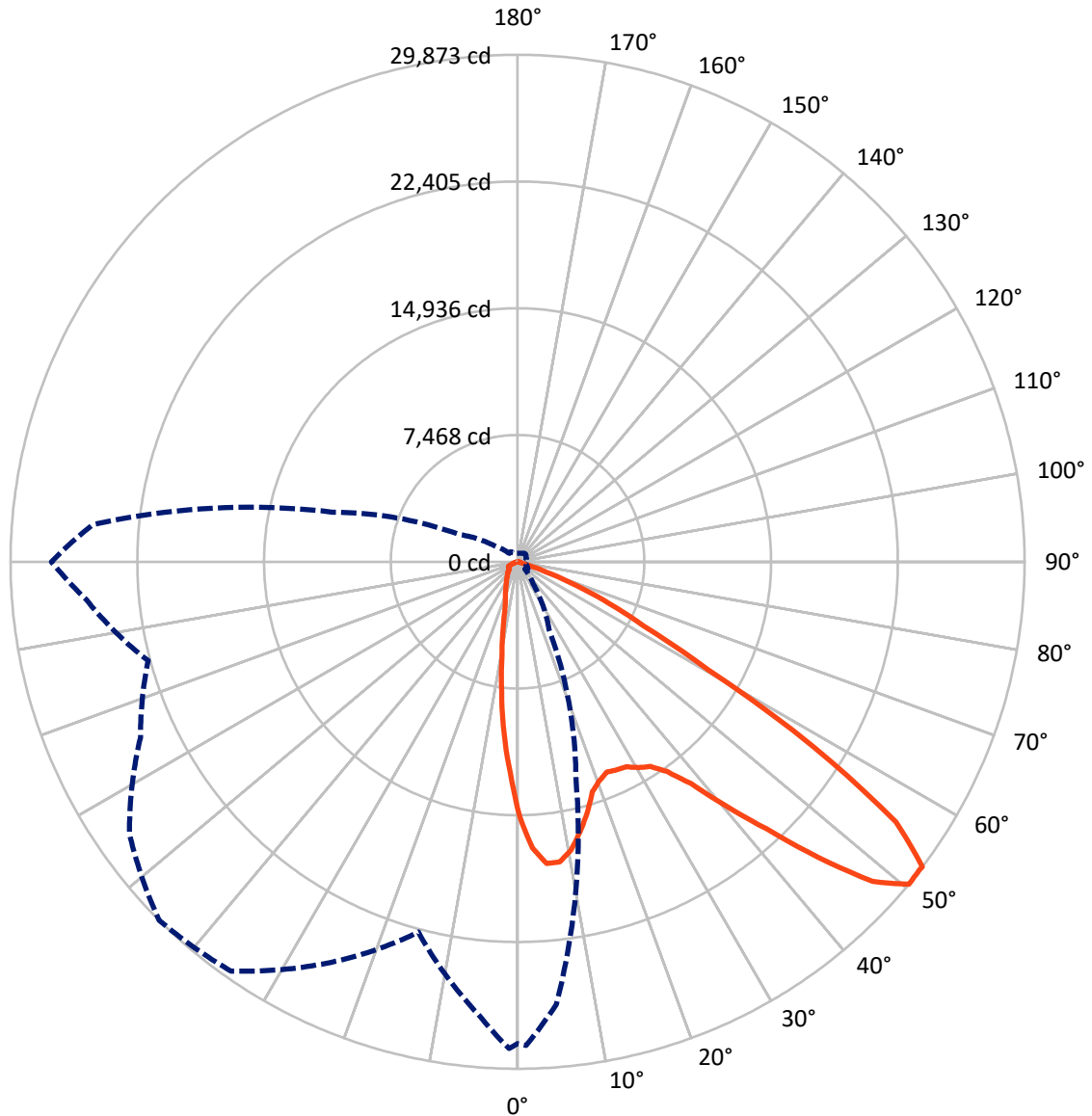
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 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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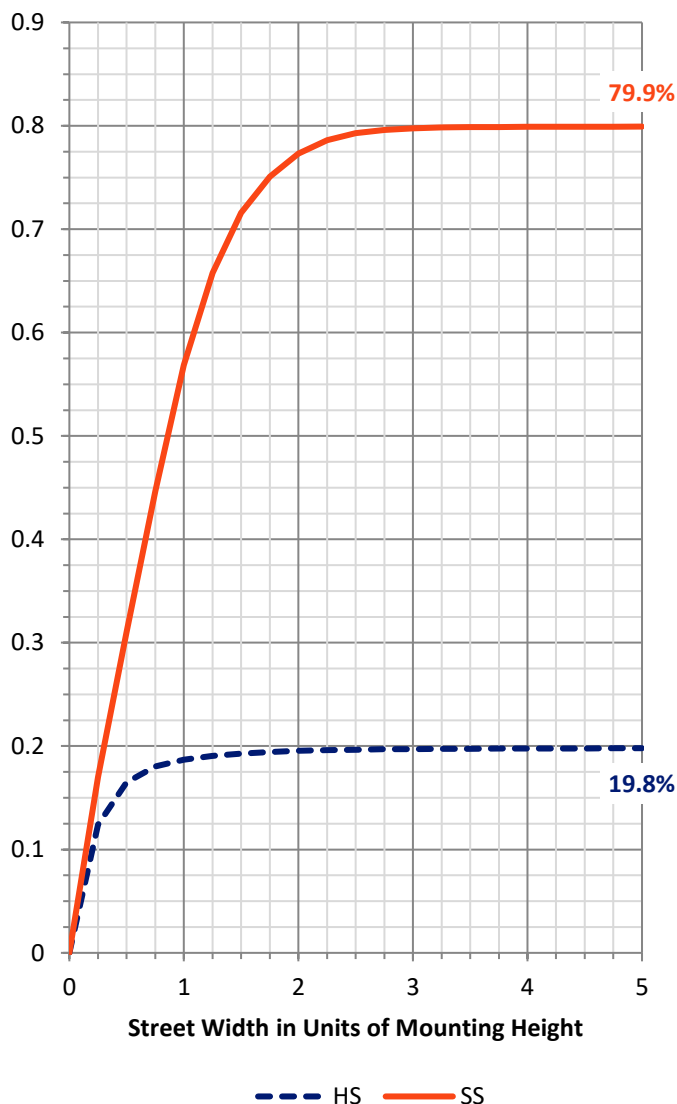
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5935.4	0.0	5935.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	23697.2	0.0	23697.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	29632.6	0.0	29632.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1095.3	3.7
10°-20°	2177.0	7.3
20°-30°	3270.4	11.0
30°-40°	4908.8	16.6
40°-50°	6899.0	23.3
50°-60°	7441.8	25.1
60°-70°	3455.2	11.7
70°-80°	325.1	1.1
80°-90°	59.9	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°	29632.6	100.0
0°-180°	29632.6	100.0

Coefficient of Utilization



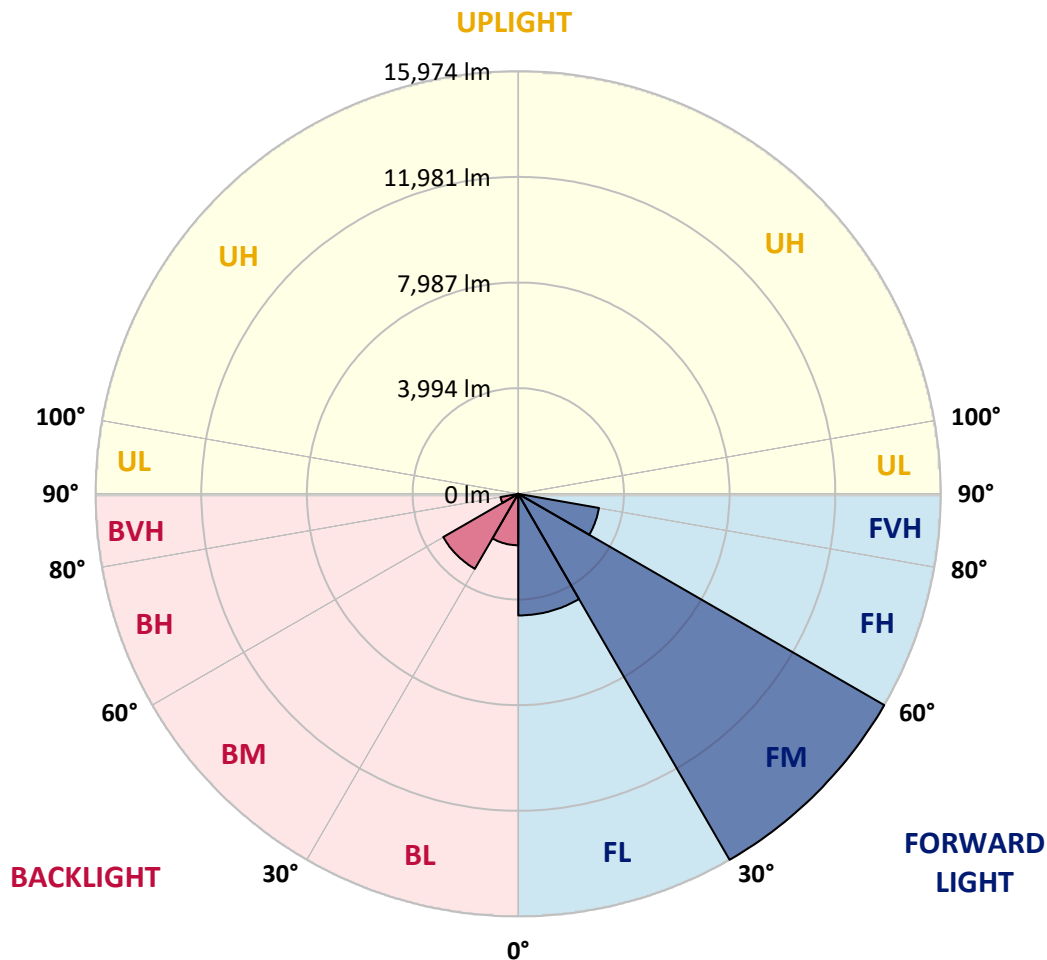
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4597.2	15.5			
FM	(30°-60°)	15974.2	53.9			
FH	(60°-80°)	3098.8	10.5			G2/5000
FVH	(80°-90°)	27.0	0.1			G1/100
BL	(0°-30°)	1945.5	6.6	B3/2500		
BM	(30°-60°)	3275.5	11.1	B3/5000		
BH	(60°-80°)	681.5	2.3	B2/1000		G2/1000
BVH	(80°-90°)	32.9	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°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	15621.3	15380.2	15074.5	14821.7	14445.4	13687.0	13481.2	13234.3	13028.5	12752.2	12364.1
5°	14204.4	14128.0	13986.8	13034.4	12346.6	11429.4	10676.8	10359.4	9941.9	9600.9	9353.9
7.5°	13122.6	12816.8	12370.0	11411.7	10312.3	9330.5	8495.6	8007.6	7455.0	7266.8	6931.7
10°	11964.4	12034.9	11376.5	10030.1	8701.3	7907.7	7390.3	6919.9	6420.2	6090.9	5614.8
12.5°	11593.9	11364.7	10859.1	9195.2	8060.5	7319.7	6690.7	6108.6	5579.4	5050.3	4591.7
15°	11835.1	11482.3	10776.7	9018.8	7566.6	6643.6	5855.8	5068.0	4580.0	3903.8	3427.7
17.5°	12699.3	12417.1	11470.5	9207.0	7313.8	5996.9	4826.9	4015.5	3268.9	2657.5	2416.4
20°	14139.7	13739.9	12552.3	9448.0	6937.6	5215.0	3915.6	2916.2	2210.7	1952.0	1816.7
22.5°	15550.8	15333.2	13833.9	9912.5	6602.4	4521.2	2939.6	1963.7	1652.1	1605.0	1516.8
25°	18237.6	17585.0	15791.8	10753.2	6343.7	3868.6	2216.5	1581.5	1399.3	1364.0	1375.8
27.5°	19836.8	19289.9	17602.6	11311.8	6055.7	3368.9	1875.5	1452.2	1328.7	1252.2	1222.9
30°	21371.2	20736.3	18502.2	11641.0	5438.3	2839.7	1663.8	1393.4	1364.0	1252.2	1217.0
32.5°	22553.0	21929.7	19801.4	12134.9	5185.5	2498.7	1369.9	1087.7	1011.2	999.4	1105.3
35°	24363.8	23699.5	20912.6	12405.3	4991.5	2322.3	1187.6	970.1	881.9	846.6	852.5
37.5°	26051.2	25598.4	21941.5	12511.1	4785.7	2269.4	1064.1	870.1	793.7	770.2	764.3
40°	27462.2	26451.0	22917.5	12622.8	4697.6	2169.4	987.8	793.7	740.8	705.5	705.5
42.5°	28108.9	27080.0	24011.1	12558.1	4674.0	2010.7	987.8	729.1	687.9	652.6	646.7
45°	27967.8	27550.4	24499.0	12528.8	4674.0	1852.0	899.5	711.4	652.6	605.6	593.8
47.5°	28332.4	27785.5	25110.5	12652.3	4580.0	1740.3	758.4	746.6	617.3	558.5	546.7
50°	28397.0	28502.8	26174.6	13293.1	4374.2	1599.2	593.8	734.9	593.8	505.6	493.8
52°	28820.3	28161.8	26498.0	13634.1	4156.6	1493.4	499.7	629.1	570.3	470.4	458.6
52.5°	28238.3	28667.4	26574.4	13757.6	4180.2	1422.8	482.1	617.3	558.5	470.4	440.9
55°	27585.6	27997.2	26262.8	14022.2	3833.3	1117.1	376.3	446.8	505.6	411.6	393.9
57.5°	23975.7	24393.2	22823.4	12840.4	3121.9	787.8	311.6	335.1	446.8	382.2	364.5
60°	21312.5	21012.6	19154.8	10712.1	2216.5	440.9	246.9	258.7	487.9	352.8	346.9
62.5°	19478.1	18837.3	16009.4	8272.2	1352.2	293.9	194.0	199.9	376.3	329.3	329.3
65°	14410.1	13692.9	10635.6	5003.3	664.4	205.8	147.0	158.8	235.1	282.2	282.2
67.5°	8225.1	7948.8	5138.5	2257.7	276.4	129.3	111.7	123.5	182.2	229.3	217.6
70°	3780.4	3392.3	1975.4	476.3	129.3	88.2	88.2	99.9	147.0	170.5	158.8
72.5°	1105.3	1046.5	482.1	76.4	52.9	52.9	58.8	76.4	111.7	129.3	117.6
75°	82.3	52.9	35.2	23.5	23.5	35.2	47.0	76.4	111.7	123.5	99.9
77.5°	5.9	11.8	5.9	5.9	17.7	35.2	52.9	94.1	147.0	152.9	111.7
80°	5.9	5.9	0.0	5.9	17.7	35.2	58.8	105.8	164.6	176.4	94.1
82.5°	0.0	0.0	0.0	5.9	23.5	47.0	70.6	111.7	152.9	188.1	99.9
85°	0.0	0.0	0.0	5.9	35.2	64.7	82.3	29.4	17.7	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°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	12640.5	12487.6	12428.8	12481.8	12464.1	12446.5	12769.8	12699.3	12687.5	12793.4	12769.8
5°	9489.2	9218.7	9959.5	9659.6	9971.3	10159.4	10194.7	10212.3	10429.8	10200.6	10500.4
7.5°	6761.2	6831.8	6825.9	7025.8	7384.4	7701.9	7890.0	7743.0	7731.3	7701.9	7572.5
10°	5403.1	5279.6	5256.1	5209.1	5320.8	5591.2	5820.5	5638.2	5508.9	5685.2	5632.3
12.5°	4415.3	4244.9	4150.8	3962.6	3968.5	4150.8	4150.8	4150.8	4280.1	4380.1	4456.5
15°	3386.5	3245.3	3245.3	3057.2	3016.1	3022.0	3116.0	3127.8	3333.6	3392.3	3421.8
17.5°	2369.3	2292.9	2381.1	2457.6	2410.5	2422.2	2457.6	2469.3	2498.7	2475.1	2534.0
20°	1822.6	1810.8	1834.3	1969.5	2069.5	2128.3	2087.1	2028.3	1993.1	1910.8	1910.8
22.5°	1546.3	1569.8	1610.9	1722.6	1852.0	1887.3	1840.2	1705.0	1599.2	1587.4	1593.3
25°	1375.8	1399.3	1463.9	1534.5	1605.0	1663.8	1616.8	1516.8	1458.0	1405.1	1405.1
27.5°	1269.9	1281.7	1316.9	1369.9	1428.7	1475.7	1458.0	1405.1	1340.5	1316.9	1264.0
30°	1187.6	1205.2	1246.4	1258.1	1311.1	1334.6	1305.2	1293.5	1252.2	1222.9	1205.2
32.5°	1146.5	1140.6	1170.0	1181.8	1187.6	1205.2	1170.0	1187.6	1181.8	1134.7	1117.1
35°	864.3	911.3	987.8	1052.4	1070.0	1093.6	1087.7	1064.1	999.4	946.5	881.9
37.5°	776.1	805.4	846.6	899.5	970.1	999.4	987.8	929.0	852.5	817.2	805.4
40°	717.3	734.9	770.2	805.4	876.0	929.0	887.8	834.9	776.1	746.6	729.1
42.5°	664.4	670.3	687.9	723.2	776.1	858.4	787.8	717.3	693.7	676.1	664.4
45°	605.6	605.6	629.1	646.7	705.5	782.0	711.4	646.7	635.0	623.2	617.3
47.5°	558.5	564.4	576.2	599.7	646.7	699.6	652.6	599.7	570.3	564.4	552.6
50°	499.7	505.6	529.2	552.6	611.4	640.8	611.4	552.6	523.3	505.6	505.6
52°	452.7	470.4	493.8	540.9	582.1	629.1	593.8	529.2	493.8	476.3	464.5
52.5°	446.8	458.6	482.1	535.0	582.1	623.2	587.9	523.3	482.1	470.4	458.6
55°	399.8	417.4	458.6	523.3	576.2	623.2	576.2	517.4	458.6	429.2	417.4
57.5°	382.2	393.9	446.8	529.2	570.3	623.2	576.2	517.4	458.6	405.7	393.9
60°	364.5	388.0	446.8	511.5	564.4	629.1	582.1	511.5	446.8	382.2	382.2
62.5°	346.9	364.5	440.9	499.7	540.9	605.6	558.5	499.7	429.2	364.5	358.6
65°	299.8	329.3	388.0	417.4	464.5	523.3	476.3	435.0	376.3	323.4	317.5
67.5°	229.3	241.0	288.1	323.4	352.8	405.7	382.2	329.3	288.1	246.9	246.9
70°	158.8	170.5	205.8	223.5	252.8	282.2	264.6	223.5	194.0	170.5	164.6
72.5°	111.7	117.6	129.3	141.1	152.9	164.6	158.8	129.3	111.7	105.8	99.9
75°	88.2	99.9	105.8	99.9	94.1	88.2	88.2	76.4	64.7	58.8	58.8
77.5°	88.2	94.1	88.2	76.4	64.7	58.8	52.9	47.0	35.2	29.4	35.2
80°	76.4	76.4	76.4	64.7	58.8	52.9	47.0	41.1	35.2	29.4	29.4
82.5°	82.3	82.3	76.4	64.7	64.7	52.9	52.9	47.0	41.1	29.4	29.4
85°	0.0	0.0	0.0	11.8	29.4	52.9	52.9	47.0	41.1	35.2	35.2
87.5°	0.0	0.0	0.0	0.0	5.9	11.8	23.5	29.4	35.2	35.2	35.2
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°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	12981.5	13204.9	13628.2	14051.5	14310.2	14615.9	15168.6	15462.5	15844.7	16032.8	16403.2
5°	10459.3	10988.4	11176.6	11658.6	12176.0	12693.4	13516.5	14421.9	15174.5	15691.9	16362.1
7.5°	7631.3	7754.8	8483.8	8807.2	9653.8	10594.5	11717.4	12858.0	13810.5	14657.1	15168.6
10°	5720.6	6173.3	6631.9	7249.2	7931.1	8901.2	9977.2	11235.3	12470.0	13316.6	13963.3
12.5°	4597.6	4956.3	5567.7	6232.1	7072.8	7713.7	8795.4	10041.9	11641.0	12470.0	13322.4
15°	3480.6	3939.2	4632.9	5320.8	6208.5	6884.7	7978.2	9548.0	11605.7	12746.3	13481.2
17.5°	2581.0	2892.6	3515.8	4286.0	5191.4	6143.8	7619.5	9495.1	11999.6	13357.8	14116.2
20°	1975.4	2081.3	2475.1	3163.1	4144.9	5391.3	7037.5	9724.3	13163.8	14845.2	15615.4
22.5°	1599.2	1646.2	1799.1	2275.3	3227.8	4732.8	6761.2	9883.1	14474.8	16626.7	17655.5
25°	1393.4	1381.6	1481.6	1687.4	2522.2	4115.5	6408.4	10482.8	16079.8	18719.7	19642.7
27.5°	1269.9	1269.9	1316.9	1463.9	2093.0	3715.7	6185.1	10912.0	17696.7	20559.9	21059.6
30°	1205.2	1217.0	1352.2	1399.3	1740.3	3239.5	5814.6	11347.0	19242.9	21735.7	22423.7
32.5°	1117.1	1070.0	1040.7	1158.2	1463.9	2810.3	5444.2	11529.3	20495.3	23176.2	23764.1
35°	858.4	834.9	870.1	958.3	1258.1	2445.8	5032.7	11735.1	21935.6	24845.9	24963.5
37.5°	776.1	770.2	793.7	870.1	1058.3	2128.3	4738.7	11682.2	23035.1	26227.5	25910.0
40°	717.3	717.3	734.9	799.6	946.5	1904.9	4433.0	11635.2	24099.3	27779.7	26850.8
42.5°	670.3	670.3	699.6	740.8	899.5	1757.9	4203.7	11570.5	24992.9	28732.1	27403.4
45°	605.6	623.2	670.3	711.4	911.3	1657.9	4033.2	11323.6	25298.6	28720.4	27138.8
47.5°	558.5	582.1	629.1	687.9	823.1	1628.6	3915.6	11106.0	25192.7	28014.9	26309.8
50°	505.6	535.0	599.7	699.6	699.6	1569.8	3792.2	11300.0	25116.4	27468.1	25516.1
52°	470.4	493.8	576.2	682.0	611.4	1446.3	3715.7	11676.3	25428.0	27397.5	25163.4
52.5°	464.5	482.1	558.5	670.3	582.1	1422.8	3662.8	11764.5	25527.9	27221.2	25404.4
55°	411.6	435.0	511.5	523.3	476.3	1170.0	3492.3	11964.4	25034.0	26874.2	25175.2
57.5°	388.0	399.8	452.7	429.2	411.6	881.9	3004.3	11652.7	22235.5	23869.9	23423.1
60°	358.6	370.4	423.3	335.1	346.9	617.3	2257.7	10118.2	17855.4	19889.6	20695.2
62.5°	346.9	341.0	399.8	270.5	293.9	446.8	1593.3	8225.1	13757.6	16373.8	17767.2
65°	305.7	299.8	288.1	229.3	252.8	346.9	952.4	5367.8	9695.0	12387.7	13152.0
67.5°	235.1	246.9	211.7	182.2	211.7	270.5	529.2	2404.7	5085.6	7431.4	8048.8
70°	164.6	176.4	170.5	158.8	188.1	223.5	305.7	823.1	2104.8	3903.8	4303.6
72.5°	99.9	123.5	129.3	135.2	164.6	194.0	217.6	264.6	558.5	1381.6	1716.7
75°	58.8	82.3	99.9	117.6	135.2	164.6	182.2	188.1	194.0	258.7	417.4
77.5°	41.1	58.8	88.2	111.7	135.2	164.6	194.0	205.8	194.0	182.2	194.0
80°	35.2	58.8	82.3	105.8	141.1	170.5	194.0	194.0	188.1	164.6	176.4
82.5°	35.2	58.8	88.2	111.7	135.2	164.6	188.1	194.0	176.4	164.6	170.5
85°	41.1	64.7	94.1	117.6	147.0	135.2	123.5	99.9	94.1	76.4	82.3
87.5°	41.1	58.8	58.8	64.7	70.6	70.6	70.6	64.7	52.9	47.0	47.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5	15027.5
2.5°	16420.9	16891.2	16873.6	16885.3	16814.8	16338.5	16109.3	15527.2	15691.9	15621.3
5°	17049.9	17514.4	17914.2	17867.2	17326.3	16679.6	15721.2	14815.8	14568.9	14204.4
7.5°	16420.9	17538.0	17908.3	17855.4	17055.8	16226.8	14698.2	13792.8	13363.7	13122.6
10°	15421.4	16714.9	17173.4	17267.5	16726.6	15468.4	14063.3	12611.1	12381.8	11964.4
12.5°	14851.1	15791.8	16074.0	16326.8	16138.7	15198.0	13581.1	12187.8	11870.3	11593.9
15°	14386.7	14945.2	15062.7	15350.9	15462.5	14956.9	13833.9	12646.4	11864.4	11835.1
17.5°	14815.8	14586.6	14157.3	14245.5	14598.3	14962.8	14486.6	13551.8	12793.4	12699.3
20°	15527.2	14516.0	13545.9	13763.5	14057.4	15174.5	15474.3	14815.8	14380.8	14139.7
22.5°	16344.4	14639.5	13351.9	13457.7	14016.3	15650.7	17073.5	16709.0	15897.6	15550.8
25°	17855.4	14980.5	13504.8	13575.3	14339.6	16315.1	18519.7	18790.2	18308.1	18237.6
27.5°	19331.1	15862.4	13839.8	13681.1	14504.2	16961.8	19395.8	20848.0	20001.3	19836.8
30°	20083.7	16579.6	14339.6	14069.2	15186.2	17355.7	19925.0	22188.4	21447.7	21371.2
32.5°	21236.0	17232.3	14727.7	14380.8	15568.3	17843.7	20912.6	23652.4	22935.2	22553.0
35°	21718.2	17943.6	15580.1	15174.5	16661.9	18525.6	21418.3	24957.6	24734.2	24363.8
37.5°	22647.0	18708.0	16585.5	16562.0	17984.8	19413.5	22329.6	26733.1	26692.0	26051.2
40°	22723.5	19542.8	18172.9	18913.7	20030.8	20959.7	23129.2	27227.0	27897.2	27462.2
42.5°	22841.1	21006.8	20918.5	21530.0	22488.3	22288.4	23158.5	27344.6	28367.6	28108.9
45°	22894.0	22470.7	23711.2	24840.0	25239.8	24028.7	22882.2	27121.2	28614.5	27967.8
47.5°	22470.7	23728.8	25968.8	28150.0	28267.7	25098.7	22764.6	26891.9	28761.5	28332.4
50°	22529.5	24516.7	27920.8	29872.7	29443.5	26045.3	22582.4	26750.8	28685.1	28397.0
52°	22388.3	24534.3	28197.1	29837.4	29537.6	25522.0	22270.8	26209.9	28614.5	28820.3
52.5°	22547.1	24428.4	27909.0	29861.0	29472.9	25780.7	22229.6	26509.7	28655.7	28238.3
55°	22000.3	23170.3	26221.6	27050.7	26991.8	23399.6	20965.5	25516.1	27579.8	27585.6
57.5°	19883.8	20083.7	20565.8	20548.2	20277.7	18396.3	17931.9	23464.2	24587.2	23975.7
60°	17520.3	14704.1	13404.8	12875.6	12575.8	12270.1	15862.4	21465.3	21571.1	21312.5
62.5°	15139.2	10194.7	8466.2	8319.2	8389.7	9506.8	15333.2	20671.6	20036.7	19478.1
65°	12217.2	7431.4	6149.7	5955.7	6643.6	7848.9	12411.2	15850.6	14874.6	14410.1
67.5°	7672.4	5420.7	4156.6	3792.2	4621.1	5403.1	8154.6	9959.5	8866.0	8225.1
70°	4550.6	3027.9	1881.4	1687.4	1899.0	2880.8	4568.2	4968.0	4109.6	3780.4
72.5°	1793.2	1111.2	523.3	446.8	464.5	1011.2	1681.5	1640.3	1240.6	1105.3
75°	482.1	335.1	182.2	147.0	123.5	188.1	270.5	176.4	64.7	82.3
77.5°	223.5	199.9	158.8	123.5	94.1	70.6	35.2	11.8	11.8	5.9
80°	194.0	170.5	147.0	123.5	94.1	58.8	29.4	5.9	5.9	5.9
82.5°	182.2	158.8	135.2	111.7	88.2	58.8	29.4	5.9	0.0	0.0
85°	76.4	99.9	111.7	105.8	94.1	58.8	29.4	5.9	0.0	0.0
87.5°	41.1	35.2	29.4	23.5	17.7	11.8	11.8	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)