

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: P457772

Luminaire Tested: **GALN-SA9A-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26270 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

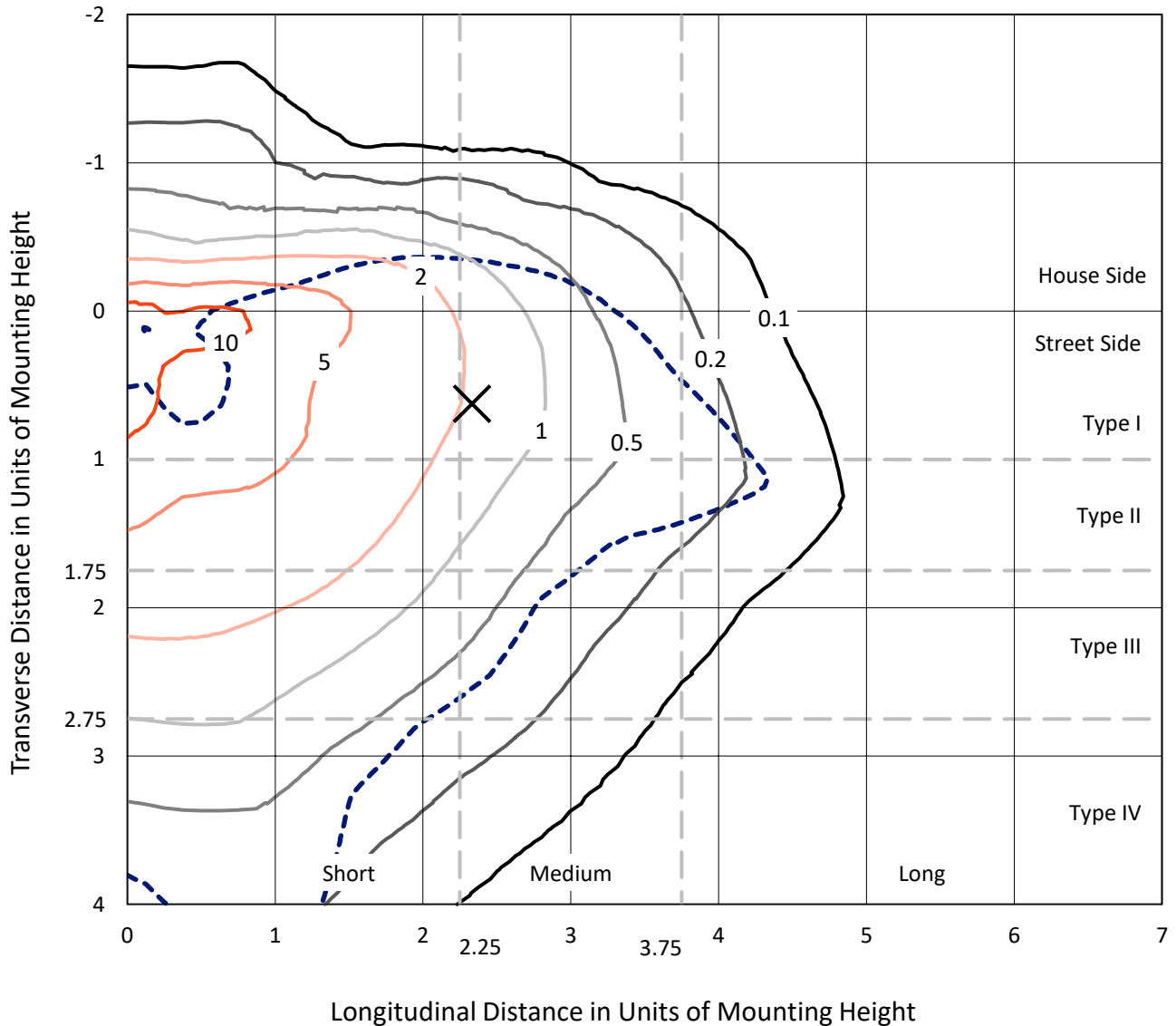
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

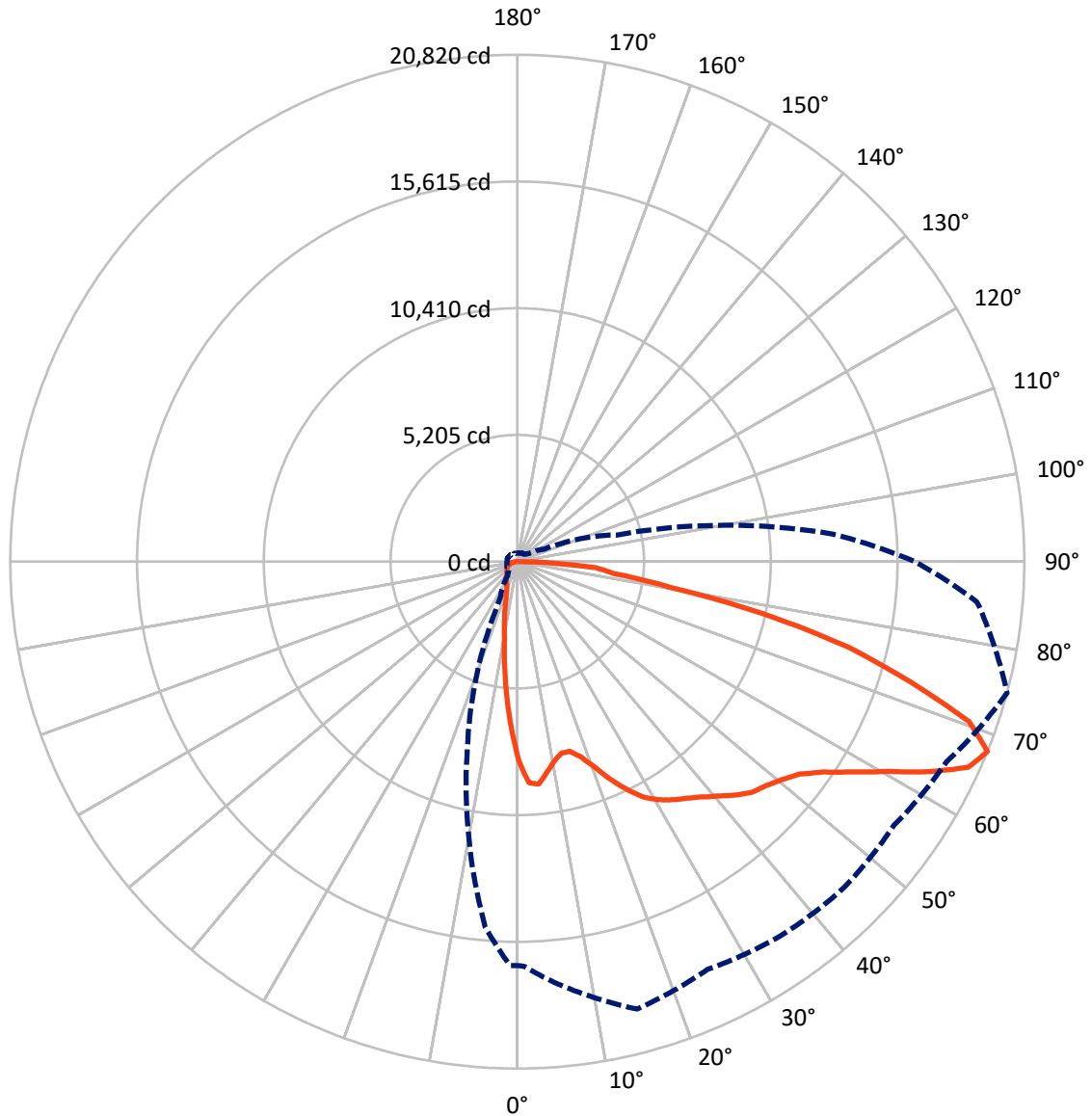
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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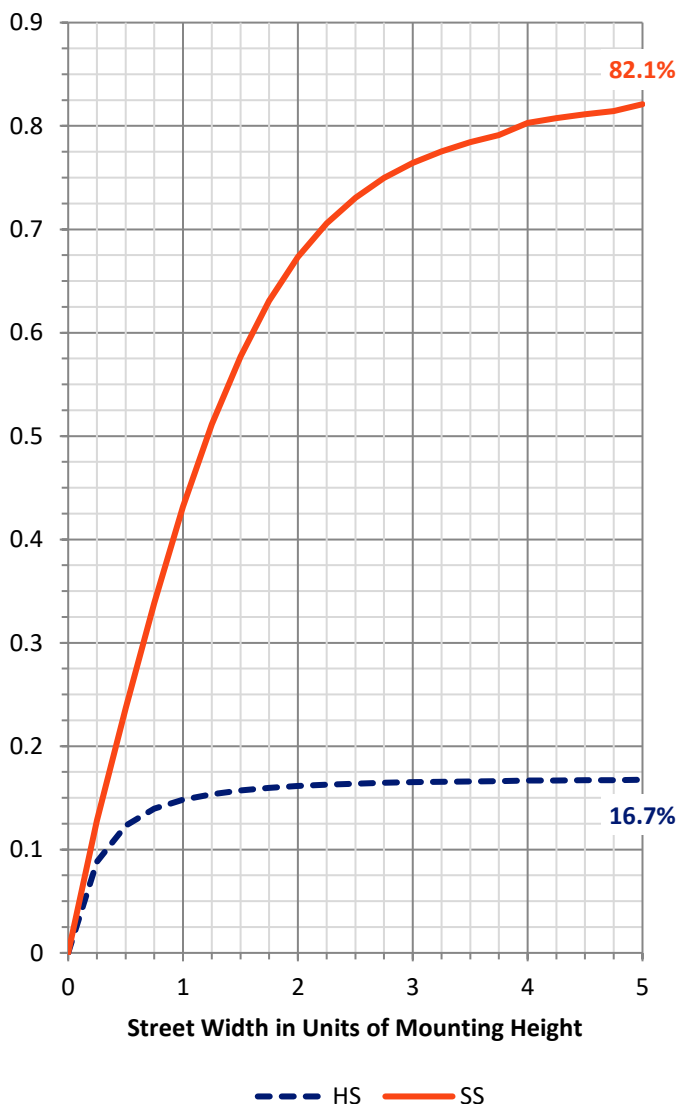
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4440.2	0.0	4440.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	21829.8	0.0	21829.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	26270.0	0.0	26270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.5	2.4
10°-20°	1298.3	4.9
20°-30°	1868.2	7.1
30°-40°	2690.7	10.2
40°-50°	3779.8	14.4
50°-60°	5271.4	20.1
60°-70°	6267.4	23.9
70°-80°	3691.2	14.1
80°-90°	780.5	3.0
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°	26270.0	100.0
0°-180°	26270.0	100.0

Coefficient of Utilization



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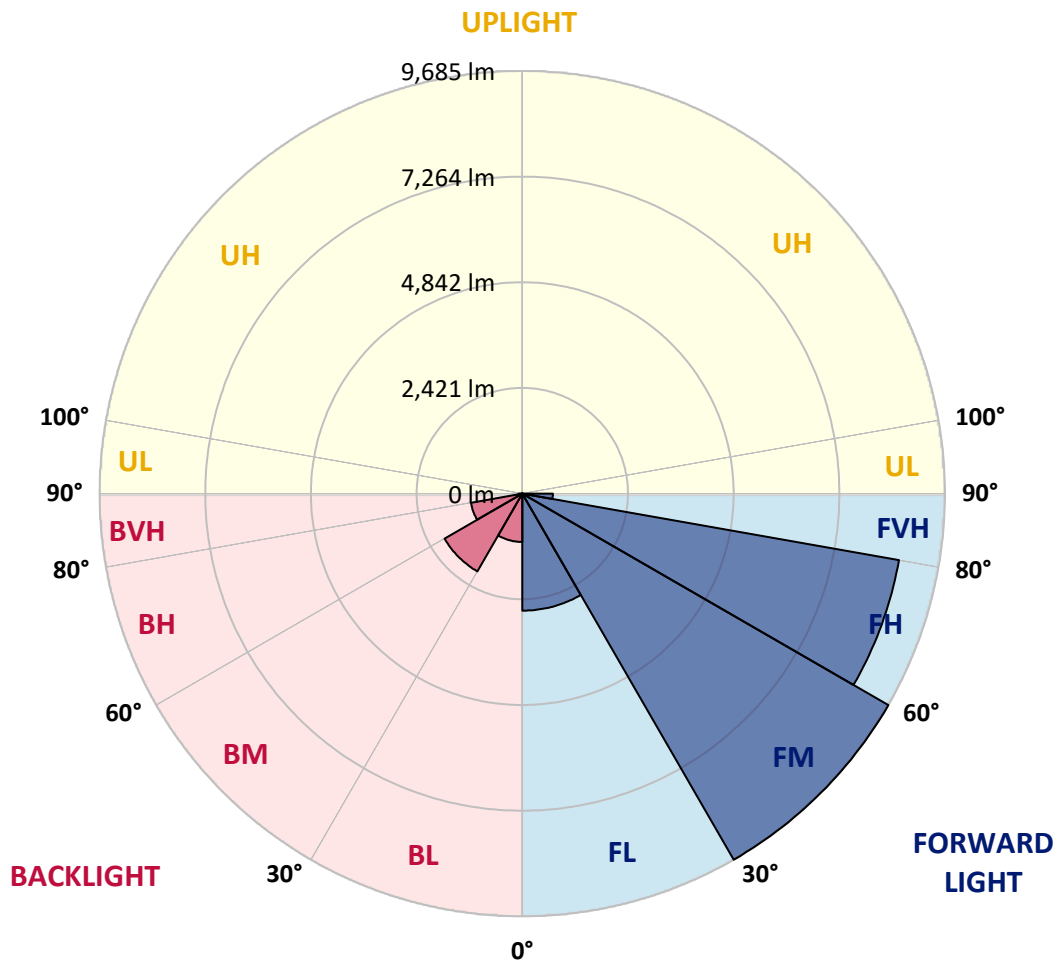
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.5	10.2			
FM (30°-60°)	9684.8	36.9			
FH (60°-80°)	8763.8	33.4			G4/12000
FVH (80°-90°)	699.8	2.7			G4/750
BL (0°-30°)	1107.5	4.2	B3/2500		
BM (30°-60°)	2057.2	7.8	B2/2500		
BH (60°-80°)	1194.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	80.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4
2.5°	8849.2	8861.0	8936.8	9157.5	9309.1	9364.7	9403.4	9331.0	9260.2	9088.4	8829.0
5°	8822.2	8891.3	9088.4	9583.7	9974.5	10143.0	10193.5	9976.2	9617.4	9176.0	8645.4
7.5°	8306.8	8399.4	8702.6	9533.1	10222.2	10616.3	10564.1	10171.6	9524.7	8738.0	7996.8
10°	7695.3	7798.0	8163.6	9167.6	10055.4	10597.8	10597.8	10119.4	9260.2	8325.3	7471.2
12.5°	7210.1	7317.9	7735.7	8791.9	9708.3	10222.2	10308.1	9897.0	9069.9	8064.2	7125.9
15°	7050.0	7154.5	7604.3	8564.5	9341.1	9654.4	9683.1	9548.3	8977.2	8082.7	7110.7
17.5°	7248.8	7383.6	7838.4	8631.9	9004.2	9022.7	9044.6	9150.7	8987.3	8421.3	7417.3
20°	7823.3	7968.2	8443.2	8849.2	8709.4	8517.3	8529.1	8802.0	9106.9	8980.6	8150.1
22.5°	8652.1	8778.4	9265.3	9231.6	8584.7	8188.8	8106.3	8487.0	9283.8	9678.0	8930.1
25°	9546.6	9694.9	10254.2	9799.3	8620.1	7993.4	7941.2	8301.7	9467.5	10330.0	9831.3
27.5°	10570.9	10715.7	11157.1	10372.1	8805.4	7978.3	7915.9	8284.9	9632.5	10933.1	10692.2
30°	11332.3	11465.4	11765.2	10853.9	9032.8	8079.3	8001.8	8417.9	9774.0	11345.8	11531.1
32.5°	11930.3	12068.5	12231.9	11153.7	9332.7	8263.0	8119.8	8660.5	9959.4	11660.8	12152.7
35°	12553.6	12717.0	12705.3	11419.9	9612.3	8475.2	8335.4	9010.9	10250.8	11935.4	12941.1
37.5°	13343.7	13409.4	13325.2	11659.1	9947.6	8857.6	8780.1	9531.5	10665.2	12267.3	13862.6
40°	14145.6	14277.0	13844.0	11948.9	10355.2	9576.9	9568.5	10301.3	11157.1	12656.4	14755.4
42.5°	14832.9	14944.1	14329.2	12201.6	10848.8	10454.6	10518.6	11334.0	11802.3	13107.9	15473.0
45°	15350.1	15449.5	14777.3	12445.8	11499.1	11468.8	11846.1	12440.8	12616.0	13513.9	15894.2
47.5°	15789.8	15885.8	15089.0	12816.4	12302.6	12680.0	13337.0	13594.7	13311.7	13746.3	16365.9
50°	16160.4	16189.0	15302.9	13257.8	13299.9	14164.1	14800.9	14967.7	13999.0	14079.9	16775.2
52.5°	16546.1	16509.1	15671.8	13813.7	14378.1	15572.4	16035.7	16209.2	14657.7	14490.9	17371.6
55°	17410.3	17445.7	16499.0	14514.5	15468.0	16955.5	17565.3	17398.5	15387.1	15247.3	18129.7
57.5°	18454.8	18424.5	17663.0	15611.2	16578.1	18242.5	18697.4	18429.5	16360.8	16286.7	18897.8
60°	18860.8	18901.2	18636.7	16790.4	17673.1	19369.5	19834.5	19418.4	17528.3	17494.6	19477.3
62.5°	18453.1	18680.5	18859.1	17839.9	18606.4	20198.4	20659.9	20184.9	18746.2	18990.5	19883.3
65°	17641.1	17690.0	18298.1	18729.4	19056.2	20334.8	20575.7	20323.0	19763.7	20353.3	19864.8
67.5°	16586.6	16628.7	17341.3	19020.8	18476.7	18785.0	18953.4	18879.3	19448.7	20820.0	18950.1
70°	15582.5	15548.9	16301.9	18277.9	16084.6	15616.2	15756.1	15523.6	16782.0	19679.5	17156.0
72.5°	13628.4	13749.7	14558.3	16212.6	12735.6	11974.1	12279.0	11677.6	12907.4	16854.4	13924.9
75°	10675.3	10703.9	12053.3	13606.5	9607.3	8406.2	8818.9	8567.9	9886.9	14059.7	9615.7
77.5°	7392.0	7328.0	8778.4	10392.3	6851.3	6153.8	6160.6	6041.0	6903.5	10351.9	6532.9
80°	4695.0	4597.3	5495.2	6420.0	4708.5	5037.0	4871.9	4866.8	4494.5	6386.3	3950.4
82.5°	2537.0	2644.8	3472.0	4024.5	3377.6	3893.1	3568.0	3463.5	3084.5	3997.6	2526.9
85°	1155.6	1256.7	1851.4	2737.5	2565.6	2594.3	1733.5	2045.1	2552.2	3246.2	1349.4
87.5°	112.9	144.9	382.4	1292.1	876.0	690.7	257.7	497.0	641.8	1154.0	107.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4
2.5°	8722.9	8635.3	8337.1	8091.1	7830.0	7631.2	7371.8	7198.3	7078.7	6898.4	6876.5
5°	8321.9	8108.0	7589.1	7060.2	6603.6	6260.0	5911.3	5591.2	5402.5	5343.6	5267.7
7.5°	7646.4	7285.9	6618.8	6012.3	5488.4	4976.3	4582.1	4302.5	4115.5	4006.0	3874.6
10°	7090.5	6672.7	5860.7	5117.8	4686.6	4368.2	4021.1	3721.3	3490.5	3293.4	3185.6
12.5°	6716.5	6244.8	5331.8	4728.7	4395.1	4056.5	3650.5	3313.6	2973.3	2749.3	2653.2
15°	6603.6	6105.0	5168.4	4534.9	4056.5	3613.5	3158.6	2718.9	2382.0	2169.8	2099.0
17.5°	6879.9	6276.8	5166.7	4277.2	3659.0	3130.0	2547.1	2134.4	1789.0	1630.7	1580.2
20°	7395.4	6607.0	5181.8	4022.8	3227.7	2483.1	1853.1	1514.5	1349.4	1282.0	1256.7
22.5°	8114.7	7110.7	5227.3	3771.8	2756.0	1907.0	1388.1	1216.3	1157.3	1145.5	1140.5
25°	9000.8	7734.0	5380.6	3546.1	2358.4	1455.5	1160.7	1083.2	1049.5	1037.7	1036.0
27.5°	9816.2	8539.2	5565.9	3352.4	1974.4	1255.0	1049.5	983.8	950.1	948.4	951.8
30°	10552.3	9213.1	5720.9	3135.0	1682.9	1115.2	977.1	911.4	879.4	877.7	887.8
32.5°	11189.1	9767.3	5835.5	2921.1	1521.2	1029.3	911.4	840.6	813.7	808.6	813.7
35°	11869.7	10319.9	5783.2	2754.3	1428.5	958.5	862.5	793.4	761.4	746.3	746.3
37.5°	12646.3	10889.3	5693.9	2616.2	1386.4	899.6	820.4	753.0	721.0	705.8	704.2
40°	13493.6	11458.6	5571.0	2493.2	1344.3	864.2	791.8	721.0	682.3	667.1	663.7
42.5°	14241.6	11945.5	5469.9	2412.3	1275.2	870.9	766.5	697.4	648.6	628.4	626.7
45°	14891.9	12435.7	5451.4	2365.2	1218.0	860.8	759.8	678.9	621.6	599.7	596.3
47.5°	15400.6	12946.1	5557.5	2338.2	1155.6	806.9	803.6	667.1	598.0	574.4	571.1
50°	16020.5	13670.5	5800.1	2282.6	1098.4	756.4	849.0	665.4	579.5	549.2	540.8
52.5°	16846.0	14613.9	6128.6	2183.2	1015.8	709.2	810.3	665.4	557.6	527.3	517.2
55°	18094.3	15816.7	6450.3	2043.4	899.6	646.9	731.1	645.2	525.6	498.6	491.9
57.5°	18921.4	16696.1	6655.9	1849.7	754.7	601.4	630.0	613.2	493.6	464.9	464.9
60°	18963.5	16931.9	6558.1	1605.4	663.7	559.3	547.5	618.2	464.9	434.6	431.3
62.5°	18478.4	16354.1	6049.4	1386.4	614.9	513.8	495.3	542.4	436.3	406.0	400.9
65°	17720.3	14880.1	5166.7	1282.0	587.9	473.4	446.4	444.7	406.0	377.4	370.6
67.5°	16327.1	13003.4	4245.2	1221.3	574.4	427.9	402.6	394.2	370.6	347.0	343.7
70°	14273.6	10890.9	3404.6	1196.1	567.7	380.7	360.5	350.4	330.2	311.7	310.0
72.5°	11104.9	8834.0	2809.9	1179.2	564.3	336.9	315.0	301.5	289.8	272.9	272.9
75°	7976.6	6499.2	2144.5	1063.0	522.2	289.8	266.2	257.7	240.9	227.4	230.8
77.5°	5028.5	4376.6	1411.7	781.7	404.3	232.5	212.3	207.2	193.7	175.2	187.0
80°	3396.2	3077.8	823.8	491.9	254.4	170.1	163.4	161.7	146.6	126.3	128.0
82.5°	2311.3	2267.5	427.9	279.6	146.6	99.4	96.0	99.4	82.5	67.4	67.4
85°	902.9	1233.1	202.2	109.5	47.2	15.2	21.9	23.6	13.5	6.7	8.4
87.5°	16.8	126.3	5.1	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4
2.5°	6842.8	6827.7	6853.0	6745.1	6767.0	6807.5	6827.7	6839.5	7006.3	6967.5	7073.6
5°	5338.5	5323.3	5421.0	5434.5	5485.1	5474.9	5523.8	5535.6	5596.2	5618.1	5766.4
7.5°	3883.0	3948.7	4059.9	4117.2	4203.1	4230.0	4204.8	4267.1	4140.7	4231.7	4258.7
10°	3119.9	3040.7	2993.5	3124.9	3141.8	3266.4	3215.9	3175.5	3249.6	3253.0	3323.7
12.5°	2597.7	2427.5	2314.6	2351.7	2392.1	2446.0	2454.5	2535.3	2589.2	2639.8	2681.9
15°	2036.7	1977.7	1875.0	1824.4	1881.7	1903.6	1955.8	2023.2	2080.5	2095.6	2152.9
17.5°	1563.3	1573.4	1556.6	1526.2	1561.6	1578.5	1581.8	1583.5	1598.7	1588.6	1672.8
20°	1258.4	1293.8	1335.9	1342.6	1354.4	1362.8	1347.7	1290.4	1292.1	1327.5	1354.4
22.5°	1138.8	1145.5	1192.7	1207.9	1244.9	1229.8	1186.0	1159.0	1155.6	1164.1	1177.5
25°	1044.5	1054.6	1088.3	1111.8	1140.5	1113.5	1081.5	1056.2	1052.9	1061.3	1074.8
27.5°	960.2	975.4	1005.7	1029.3	1056.2	1031.0	1000.7	978.8	977.1	975.4	983.8
30°	892.8	909.7	931.6	958.5	977.1	955.2	926.5	914.7	913.1	909.7	913.1
32.5°	825.5	852.4	874.3	887.8	906.3	889.5	867.6	860.8	849.0	838.9	833.9
35°	749.6	778.3	812.0	828.8	847.4	830.5	815.3	786.7	766.5	764.8	768.2
37.5°	705.8	717.6	744.6	773.2	791.8	783.3	754.7	726.1	721.0	721.0	724.4
40°	667.1	672.2	683.9	721.0	754.7	729.4	694.1	685.6	685.6	683.9	685.6
42.5°	628.4	633.4	633.4	662.0	716.0	675.5	648.6	648.6	648.6	650.3	655.3
45°	593.0	594.7	593.0	613.2	663.7	630.0	611.5	616.6	619.9	623.3	626.7
47.5°	562.7	564.3	562.7	579.5	604.8	591.3	581.2	587.9	594.7	599.7	603.1
50°	535.7	534.0	537.4	547.5	559.3	562.7	555.9	566.0	569.4	576.1	584.6
52.5°	512.1	510.4	513.8	518.9	535.7	535.7	535.7	544.1	550.9	557.6	569.4
55°	485.2	486.8	491.9	498.6	520.5	517.2	518.9	525.6	532.3	542.4	549.2
57.5°	459.9	463.3	470.0	480.1	502.0	500.3	502.0	505.4	513.8	518.9	525.6
60°	431.3	438.0	446.4	453.2	475.1	473.4	481.8	488.5	493.6	493.6	497.0
62.5°	402.6	412.7	421.1	426.2	449.8	451.5	463.3	468.3	471.7	468.3	473.4
65°	374.0	389.1	392.5	399.3	422.8	424.5	438.0	449.8	446.4	443.0	451.5
67.5°	345.3	363.9	362.2	370.6	394.2	397.6	409.4	429.6	422.8	419.5	426.2
70°	313.3	326.8	328.5	333.6	365.6	360.5	379.0	397.6	392.5	394.2	394.2
72.5°	278.0	289.8	289.8	299.9	333.6	325.1	340.3	360.5	360.5	358.8	358.8
75°	235.8	242.6	249.3	264.5	299.9	289.8	299.9	318.4	321.8	318.4	318.4
77.5°	190.4	200.5	203.8	224.1	249.3	247.6	257.7	266.2	272.9	269.5	269.5
80°	134.8	144.9	158.4	180.3	195.4	200.5	205.5	212.3	215.6	215.6	219.0
82.5°	75.8	91.0	102.8	124.7	131.4	156.7	155.0	160.0	155.0	136.5	151.6
85°	16.8	32.0	45.5	57.3	65.7	91.0	96.0	107.8	89.3	82.5	82.5
87.5°	0.0	0.0	0.0	0.0	0.0	13.5	27.0	37.1	32.0	27.0	27.0
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°	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4	8207.4
2.5°	7162.9	7309.5	7486.4	7791.3	8005.2	8236.0	8468.5	8716.1	8781.8	8849.2
5°	5806.8	6094.9	6251.5	6660.9	7090.5	7636.3	8082.7	8571.2	8775.1	8822.2
7.5°	4398.5	4593.9	5004.9	5419.4	5951.7	6524.5	7208.4	7969.8	8207.4	8306.8
10°	3487.1	3753.3	4113.8	4558.5	5025.2	5641.7	6413.3	7302.7	7639.7	7695.3
12.5°	2968.3	3264.8	3657.3	4127.3	4568.6	5033.6	5811.9	6730.0	7090.5	7210.1
15°	2373.6	2732.4	3185.6	3680.9	4161.0	4669.7	5458.1	6494.1	6910.2	7050.0
17.5°	1864.9	2154.6	2644.8	3182.2	3751.6	4395.1	5384.0	6607.0	7119.1	7248.8
20°	1426.9	1634.1	2046.8	2614.5	3281.6	4123.9	5402.5	7033.2	7646.4	7823.3
22.5°	1233.1	1339.3	1590.3	2131.0	2877.3	3888.1	5478.3	7617.8	8357.3	8652.1
25°	1116.9	1172.5	1314.0	1667.8	2491.5	3659.0	5651.8	8404.5	9351.2	9546.6
27.5°	1017.5	1057.9	1145.5	1399.9	2141.1	3446.7	5854.0	9277.1	10279.4	10570.9
30°	923.2	977.1	1059.6	1243.2	1917.1	3253.0	6108.4	9984.6	11061.1	11332.3
32.5°	850.7	904.6	980.4	1133.7	1726.7	3049.1	6260.0	10606.2	11699.5	11930.3
35°	791.8	837.2	916.4	1046.1	1581.8	2894.1	6229.6	11099.8	12317.8	12553.6
37.5°	749.6	788.4	867.6	963.6	1472.3	2732.4	6214.5	11751.8	13070.8	13343.7
40°	710.9	751.3	823.8	909.7	1362.8	2542.1	6222.9	12398.7	13872.7	14145.6
42.5°	680.6	726.1	785.0	894.5	1250.0	2388.8	6222.9	12961.3	14570.1	14832.9
45°	655.3	704.2	761.4	892.8	1160.7	2272.5	6180.8	13444.8	15126.0	15350.1
47.5°	633.4	687.3	769.9	862.5	1138.8	2188.3	6143.7	13832.2	15579.2	15789.8
50°	618.2	682.3	818.7	827.1	1145.5	2163.0	6322.3	14320.8	15978.4	16160.4
52.5°	606.5	683.9	817.0	774.9	1133.7	2179.9	6694.6	15083.9	16532.7	16546.1
55°	582.9	682.3	774.9	716.0	1084.9	2208.5	7173.0	16192.4	17400.2	17410.3
57.5°	559.3	663.7	719.3	665.4	985.5	2208.5	7749.2	17241.9	18446.4	18454.8
60°	535.7	690.7	631.7	621.6	855.8	2168.1	8357.3	17703.5	18774.9	18860.8
62.5°	512.1	695.7	564.3	582.9	761.4	2070.4	8810.5	17193.0	18330.1	18453.1
65°	485.2	561.0	520.5	542.4	712.6	1907.0	8667.3	16258.1	17494.6	17641.1
67.5°	453.2	475.1	473.4	500.3	695.7	1666.1	7912.6	15075.5	16595.0	16586.6
70°	414.4	426.2	431.3	459.9	663.7	1479.1	6593.5	13540.8	15393.9	15582.5
72.5°	374.0	384.1	389.1	414.4	631.7	1372.9	5117.8	11426.6	13333.6	13628.4
75°	330.2	336.9	343.7	365.6	598.0	1216.3	3645.5	8722.9	10212.0	10675.3
77.5°	284.7	284.7	293.1	315.0	503.7	1004.0	2446.0	6118.5	6918.7	7392.0
80°	230.8	232.5	229.1	252.7	370.6	687.3	1389.8	4086.8	4604.0	4695.0
82.5°	176.9	171.8	173.5	185.3	276.3	468.3	741.2	2538.7	2587.5	2537.0
85°	111.2	111.2	107.8	121.3	176.9	244.3	404.3	1554.9	1214.6	1155.6
87.5°	45.5	37.1	42.1	48.9	84.2	99.4	158.4	320.1	123.0	112.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)