

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: P458235

Luminaire Tested: **GALN-SA9C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33647 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

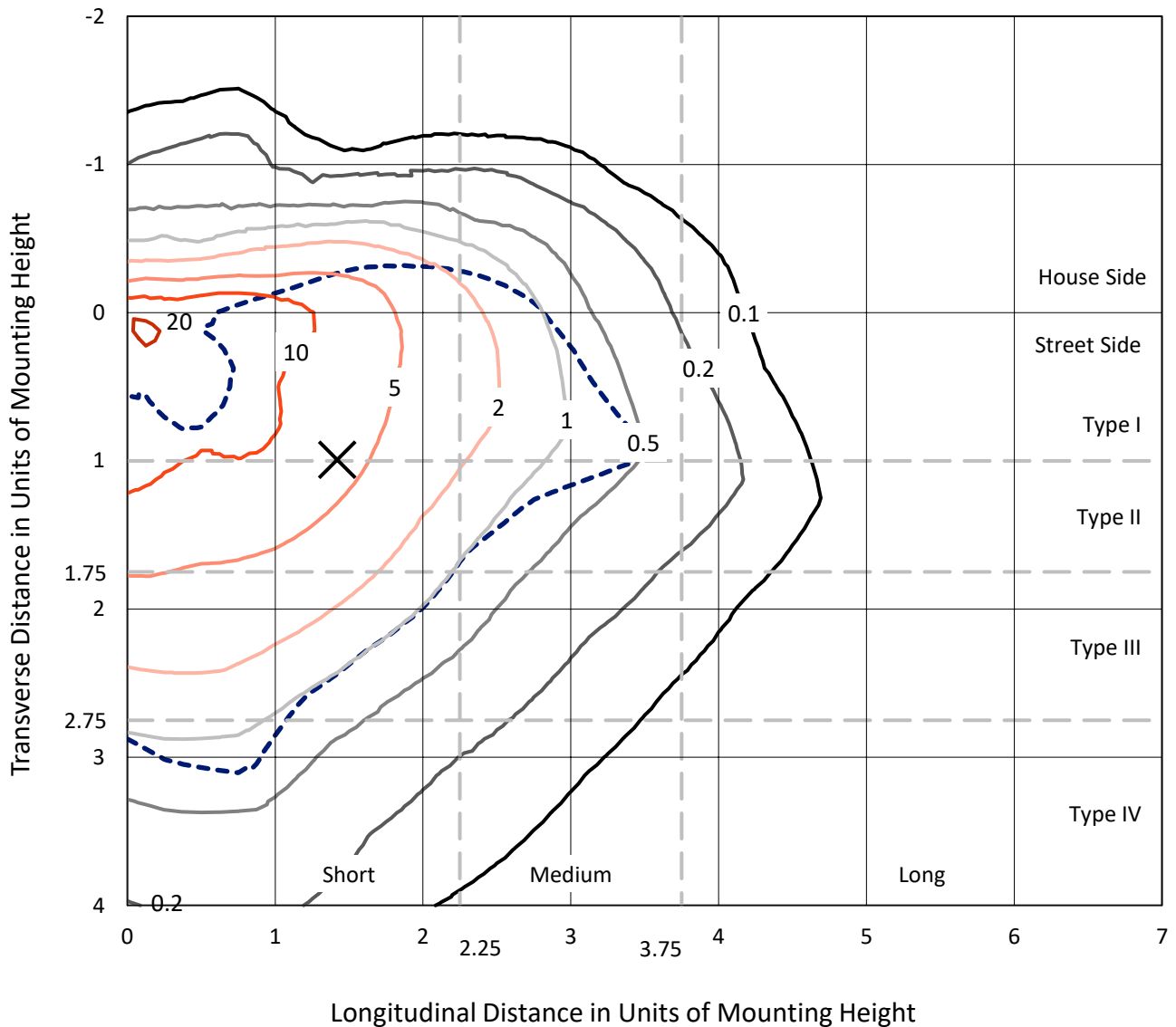
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

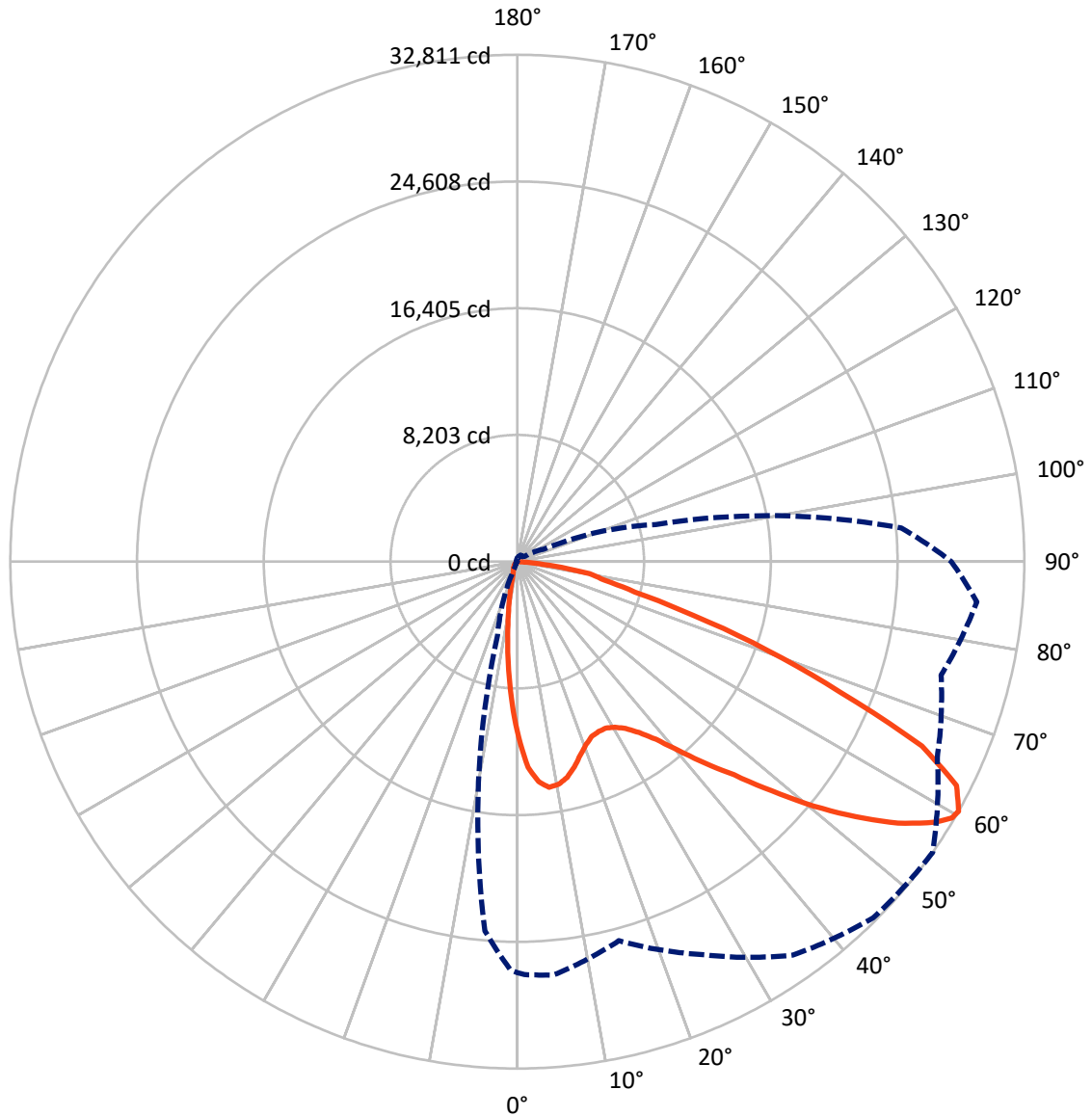
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4993.5	0.0	4993.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	28653.5	0.0	28653.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	33647.0	0.0	33647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.7	2.5
10°-20°	1661.3	4.9
20°-30°	2459.1	7.3
30°-40°	3665.5	10.9
40°-50°	5368.2	16.0
50°-60°	7750.0	23.0
60°-70°	8152.6	24.2
70°-80°	3353.7	10.0
80°-90°	392.8	1.2
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°	33647.0	100.0
0°-180°	33647.0	100.0

Coefficient of Utilization



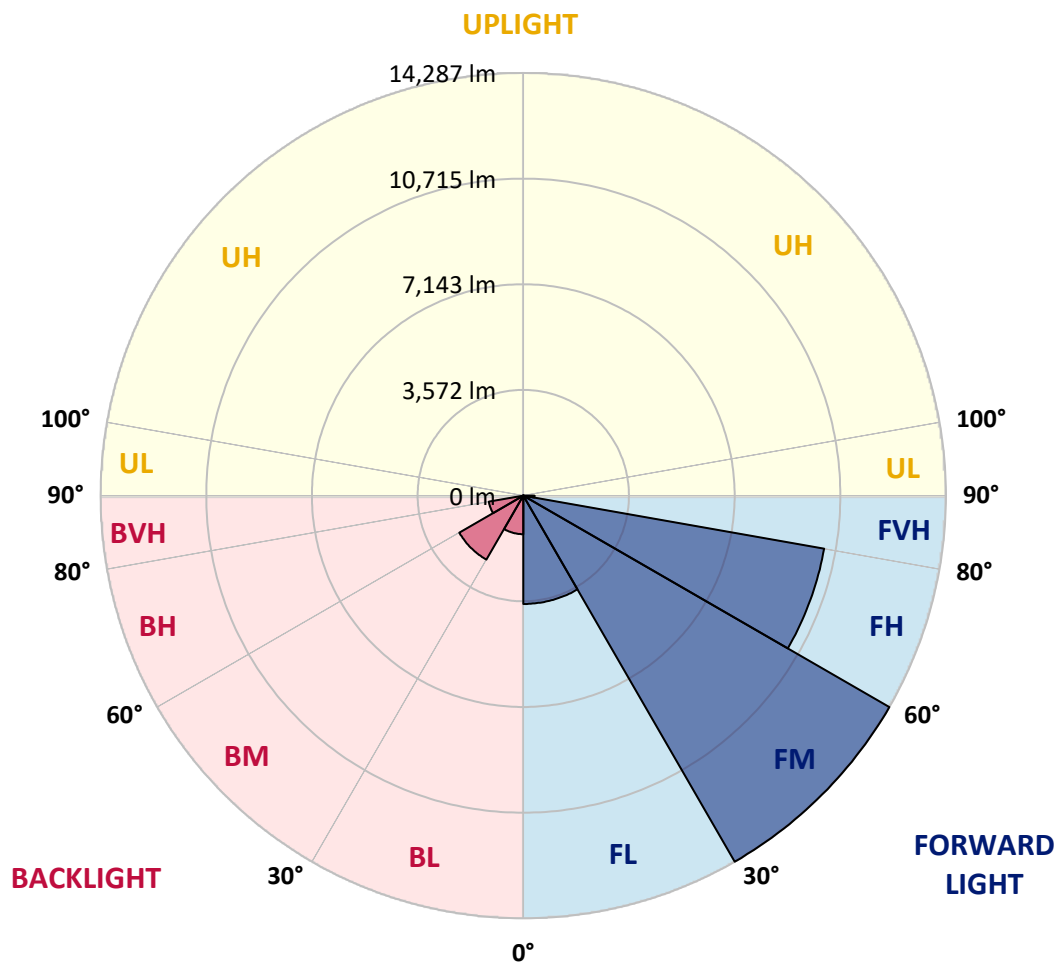
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3661.3	10.9			
FM	(30°-60°)	14286.6	42.5			
FH	(60°-80°)	10324.4	30.7			G4/12000
FVH	(80°-90°)	381.2	1.1			G3/500
BL	(0°-30°)	1302.8	3.9	B3/2500		
BM	(30°-60°)	2497.2	7.4	B2/2500		
BH	(60°-80°)	1181.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	11.5	0.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8
2.5°	12446.9	12426.1	12610.0	12910.4	13213.5	13371.4	13340.4	13327.4	13076.2	12892.3	12506.4
5°	12421.0	12527.1	12856.1	13669.3	14285.7	14583.5	14671.5	14301.2	13811.7	13102.1	12226.7
7.5°	11677.7	11809.7	12345.8	13617.5	14713.0	15360.4	15337.1	14744.1	13734.0	12635.9	11387.6
10°	10755.7	10911.1	11540.4	13084.0	14505.8	15360.4	15407.1	14656.0	13399.9	11991.0	10678.0
12.5°	10105.6	10289.5	10986.2	12586.7	13972.3	14814.0	14868.4	14324.5	13148.7	11742.4	10292.1
15°	9885.5	10059.0	10766.0	12335.5	13405.1	13858.3	13845.4	13788.4	13050.3	11802.0	10312.8
17.5°	10263.6	10406.0	11203.7	12449.4	12874.2	12827.6	12894.9	13169.4	13071.0	12301.8	10965.5
20°	11240.0	11385.0	12242.3	12799.1	12467.6	12172.3	12203.4	12661.8	13262.7	13241.9	11985.9
22.5°	12584.1	12830.2	13607.1	13477.6	12413.2	11765.7	11701.0	12296.6	13589.0	14324.5	13363.7
25°	14285.7	14534.3	15140.3	14560.2	12679.9	11669.9	11610.3	12185.3	13985.2	15381.2	14915.0
27.5°	15715.3	15904.3	16507.7	15614.2	13073.6	11711.3	11612.9	12200.8	14306.4	16279.8	16222.9
30°	16860.0	16999.8	17354.6	16106.3	13412.9	11892.6	11778.7	12428.7	14448.8	16717.5	17282.1
32.5°	17782.0	18017.6	18129.0	16632.1	13899.8	12234.5	12040.2	12866.4	14795.9	17258.8	18393.2
35°	18836.0	19108.0	18965.5	17134.5	14542.0	12768.0	12529.7	13576.0	15321.6	17758.6	19682.9
37.5°	20172.4	20485.8	19928.9	17662.8	15220.6	13570.9	13459.5	14573.1	16119.3	18473.5	21065.9
40°	21555.4	21736.7	20863.9	18305.1	16054.5	14738.9	14845.1	16054.5	17163.0	19330.7	22536.9
42.5°	22635.4	22806.3	21824.7	18843.8	16906.6	16124.4	16567.3	17841.5	18359.5	20208.7	23635.0
45°	23461.5	23606.5	22490.3	19431.7	18056.5	18131.6	18968.1	19682.9	19558.6	20744.8	24481.9
47.5°	24103.8	24228.1	23003.1	20063.6	19778.7	20586.8	21866.2	22169.2	20801.7	21324.9	25248.5
50°	24368.0	24404.2	23163.7	20869.1	21734.1	23715.3	25049.1	24865.2	22226.2	21969.8	26064.3
52.5°	24712.4	24704.6	23622.1	21635.7	23572.9	26512.4	27843.6	27426.6	23837.0	22935.8	26981.1
55°	25616.3	25626.6	24603.6	22723.4	25139.7	28770.7	30195.1	29892.1	25536.0	24567.4	28050.7
57.5°	26714.4	26753.2	25999.6	23995.0	26636.7	30407.5	31951.1	31834.5	27833.2	26382.9	29060.8
59°	26856.8	26934.5	26660.0	24891.1	27525.0	30909.9	32551.9	32665.9	29063.4	27579.4	29607.2
60°	26597.8	26727.3	26851.6	25398.7	28045.6	31091.2	32588.2	32810.9	29988.0	28392.6	29855.9
62.5°	25468.7	25673.3	26297.4	26960.4	28695.6	30526.6	31430.5	31896.7	31132.7	30529.2	29879.2
65°	23989.8	24096.0	24997.3	27237.5	27434.4	27890.2	28169.9	28768.1	29757.5	31352.8	28809.6
67.5°	21565.7	21879.1	22982.4	25629.2	23712.7	23174.0	23104.1	22508.4	25077.6	29389.7	26173.1
70°	17815.6	17955.5	19315.2	21011.5	17895.9	17067.2	17398.7	17175.9	19439.5	25300.3	21065.9
72.5°	13472.4	13788.4	15117.0	16748.6	12177.5	11102.7	12016.9	11934.1	14601.6	20333.0	14472.1
75°	9585.1	9789.7	11483.4	13107.3	8528.4	7225.7	7554.6	7862.8	10193.7	16054.5	8551.7
77.5°	6586.0	6762.1	8033.7	8668.3	6220.8	5959.3	5451.6	5749.5	6679.2	9525.5	4654.0
80°	3972.8	3965.1	4801.6	4957.0	4332.8	5032.1	4221.5	4739.4	4037.6	4076.4	1802.5
82.5°	2579.5	2553.6	2936.9	3201.1	2411.2	2535.5	1701.5	2452.6	2631.3	1136.9	569.8
85°	1155.1	1204.3	1411.5	1862.1	1056.7	562.0	347.0	753.6	1121.4	572.4	0.0
87.5°	119.1	93.2	248.6	453.2	145.0	15.5	51.8	25.9	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°	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8
2.5°	12327.7	12177.5	11729.5	11309.9	10949.9	10509.6	10224.8	9776.7	9504.8	9421.9	9434.8
5°	11833.1	11400.6	10548.5	9867.4	9108.5	8676.0	8018.2	7386.3	7044.4	6917.5	6860.5
7.5°	10797.1	10333.5	9305.4	8235.7	7422.5	6663.7	6174.2	5617.4	5236.7	4923.3	4868.9
10°	10027.9	9419.3	8145.1	6995.2	6352.9	5783.2	5293.7	4736.8	4288.8	3931.4	3833.0
12.5°	9566.9	8885.8	7464.0	6500.5	5891.9	5306.6	4669.5	4024.6	3566.2	3180.3	3001.6
15°	9484.1	8694.2	7272.3	6145.7	5394.7	4687.6	3840.8	3144.1	2672.7	2307.6	2196.2
17.5°	9983.9	9038.6	7243.8	5775.4	4744.6	3742.3	2861.8	2284.3	1753.3	1548.7	1468.4
20°	10874.8	9647.2	7241.2	5345.5	4076.4	2882.5	2009.7	1489.2	1274.2	1175.8	1129.2
22.5°	12089.5	10476.0	7378.5	4975.1	3382.4	2126.3	1434.8	1186.2	1061.8	981.6	963.4
25°	13573.4	11703.6	7715.2	4723.9	2851.4	1667.9	1183.6	1015.2	911.6	875.4	859.8
27.5°	14891.7	12879.4	8085.5	4464.9	2470.7	1476.2	1098.1	929.8	846.9	818.4	795.1
30°	16028.6	13946.4	8264.2	4123.1	2165.1	1351.9	1113.6	994.5	885.7	800.3	761.4
32.5°	16976.5	14764.8	8380.8	3812.3	1906.1	1105.9	880.6	769.2	720.0	688.9	663.0
35°	18162.7	15650.5	8310.9	3636.2	1774.1	1007.5	802.9	663.0	580.1	518.0	492.1
37.5°	19405.8	16536.2	8189.1	3491.1	1714.5	934.9	764.0	629.3	538.7	473.9	440.3
40°	20693.0	17357.2	8046.7	3356.5	1660.1	888.3	740.7	600.8	510.2	440.3	404.0
42.5°	21871.3	18157.5	7989.7	3268.4	1572.0	896.1	722.6	587.9	481.7	409.2	378.1
45°	22824.4	18916.3	8067.4	3221.8	1476.2	883.1	727.7	572.4	458.4	388.5	357.4
47.5°	23842.2	19988.5	8318.6	3175.2	1383.0	821.0	766.6	569.8	448.0	375.5	341.9
50°	25025.8	21361.1	8893.6	3061.2	1269.0	753.6	815.8	567.2	435.1	360.0	326.3
52.5°	26603.0	22920.2	9486.6	2861.8	1103.3	688.9	779.5	559.4	409.2	341.9	308.2
55°	28019.7	24562.2	9989.1	2626.1	893.5	595.7	701.9	525.7	365.2	310.8	279.7
57.5°	28605.0	25489.4	9973.5	2299.8	714.8	523.2	577.5	481.7	318.6	274.5	248.6
59°	28390.0	25372.8	9639.4	2058.9	652.6	484.3	479.1	476.5	297.8	248.6	227.9
60°	28087.0	24948.1	9279.5	1939.8	613.8	458.4	440.3	471.4	279.7	233.1	212.4
62.5°	26926.7	23187.0	8085.5	1737.8	562.0	388.5	352.2	398.8	248.6	202.0	183.9
65°	25245.9	20480.6	6845.0	1680.8	546.5	321.1	292.7	284.9	212.4	170.9	155.4
67.5°	21967.2	17331.3	5544.9	1642.0	551.6	269.3	256.4	215.0	176.1	142.4	132.1
70°	17587.7	13513.9	4540.0	1597.9	556.8	220.1	215.0	170.9	142.4	119.1	108.8
72.5°	10685.8	8010.4	3574.0	1388.2	541.3	176.1	191.6	129.5	103.6	85.5	80.3
75°	6606.7	5482.7	2216.9	1080.0	357.4	129.5	134.7	80.3	69.9	54.4	54.4
77.5°	3827.8	3462.6	792.5	388.5	158.0	77.7	59.6	41.4	38.8	23.3	23.3
80°	1587.6	1271.6	274.5	132.1	85.5	36.3	12.9	2.6	0.0	0.0	0.0
82.5°	463.6	411.8	75.1	59.6	25.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8
2.5°	9214.7	9129.2	9090.4	9222.5	9100.8	9256.1	9137.0	9188.8	9341.6	9409.0	9582.5
5°	6896.8	6808.7	6767.3	6966.7	6956.4	7054.8	7044.4	7135.1	7212.8	7039.2	7217.9
7.5°	4804.2	4744.6	4843.0	4998.4	5164.2	5109.8	5109.8	4988.1	5029.5	5003.6	4995.8
10°	3654.3	3449.7	3397.9	3392.7	3454.9	3467.8	3397.9	3229.6	3291.7	3309.8	3418.6
12.5°	2874.7	2716.8	2475.9	2367.1	2338.6	2361.9	2131.5	1983.8	2053.8	2012.3	2118.5
15°	2061.5	1932.0	1789.6	1667.9	1634.2	1587.6	1336.4	1160.3	1139.5	1147.3	1165.4
17.5°	1471.0	1383.0	1383.0	1253.5	1183.6	1043.7	916.8	839.1	831.3	839.1	852.1
20°	1085.2	1038.5	1033.4	999.7	922.0	828.8	740.7	725.2	720.0	732.9	738.1
22.5°	934.9	885.7	844.3	841.7	769.2	691.5	650.1	629.3	631.9	637.1	650.1
25°	836.5	784.7	740.7	714.8	663.0	608.6	569.8	559.4	559.4	567.2	569.8
27.5°	766.6	701.9	663.0	626.7	580.1	533.5	499.8	492.1	486.9	492.1	505.0
30°	717.4	652.6	603.4	549.0	512.8	468.8	440.3	429.9	427.3	429.9	440.3
32.5°	613.8	574.9	536.1	486.9	442.9	414.4	383.3	365.2	365.2	370.3	380.7
35°	463.6	442.9	440.3	427.3	391.1	360.0	323.7	305.6	305.6	316.0	321.1
37.5°	409.2	370.3	365.2	360.0	344.5	303.0	269.3	253.8	251.2	259.0	269.3
40°	372.9	328.9	305.6	300.4	303.0	256.4	220.1	204.6	204.6	207.2	217.5
42.5°	344.5	292.7	251.2	246.0	256.4	215.0	178.7	163.2	163.2	163.2	176.1
45°	321.1	261.6	212.4	186.5	202.0	176.1	145.0	129.5	124.3	129.5	134.7
47.5°	305.6	238.3	186.5	150.2	150.2	139.9	116.5	98.4	93.2	95.8	103.6
50°	292.7	217.5	158.0	121.7	108.8	111.4	88.1	75.1	69.9	69.9	77.7
52.5°	271.9	196.8	137.3	103.6	82.9	75.1	64.7	54.4	51.8	54.4	59.6
55°	246.0	178.7	119.1	85.5	64.7	51.8	46.6	38.8	36.3	38.8	46.6
57.5°	217.5	150.2	95.8	67.3	44.0	33.7	31.1	25.9	20.7	23.3	28.5
59°	199.4	134.7	82.9	54.4	33.7	23.3	23.3	18.1	12.9	15.5	23.3
60°	191.6	124.3	69.9	46.6	28.5	18.1	18.1	12.9	7.8	10.4	18.1
62.5°	163.2	103.6	54.4	28.5	12.9	2.6	7.8	2.6	0.0	2.6	7.8
65°	137.3	82.9	36.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	2.6
67.5°	114.0	62.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	90.6	41.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	62.2	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	38.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8	11392.8
2.5°	9592.8	9963.2	10191.1	10621.0	11061.3	11400.6	11825.3	12206.0	12364.0	12446.9
5°	7399.2	7914.6	8352.3	9007.5	9616.1	10356.8	11107.9	11993.6	12332.9	12421.0
7.5°	5192.7	5718.4	6176.8	6935.6	7803.2	8795.2	9919.2	11043.2	11537.8	11677.7
10°	3750.1	4312.1	4871.5	5630.3	6441.0	7515.8	8686.4	10077.1	10646.9	10755.7
12.5°	2367.1	2970.6	3879.6	4817.1	5674.4	6539.4	7764.4	9276.9	9906.2	10105.6
15°	1372.6	1823.3	2509.6	3732.0	4822.3	5967.0	7303.4	8976.4	9680.9	9885.5
17.5°	919.4	1074.8	1546.1	2481.1	3921.0	5438.7	7186.9	9222.5	10002.0	10263.6
20°	774.4	844.3	1010.0	1512.5	3019.8	4967.3	7217.9	9890.7	10913.7	11240.0
22.5°	681.1	745.9	852.1	1087.7	2108.1	4382.0	7365.6	10846.3	12167.1	12584.1
25°	600.8	665.6	758.8	901.3	1416.7	3706.1	7689.3	12244.8	13827.2	14285.7
27.5°	533.5	593.1	673.4	795.1	1090.3	2952.4	7976.8	13607.1	15342.3	15715.3
30°	471.4	520.6	598.3	691.5	906.4	2276.5	8121.8	14798.4	16445.6	16860.0
32.5°	409.2	455.8	530.9	606.0	745.9	1735.2	8020.8	15673.8	17517.8	17782.0
35°	349.6	398.8	461.0	530.9	644.9	1401.1	7515.8	16658.0	18628.8	18836.0
37.5°	300.4	341.9	406.6	461.0	582.7	1121.4	6904.6	17543.7	19874.6	20172.4
40°	253.8	295.2	360.0	409.2	536.1	883.1	6352.9	18527.8	21187.6	21555.4
42.5°	207.2	256.4	313.4	393.7	461.0	673.4	5684.7	19325.5	22174.4	22635.4
45°	165.8	220.1	282.3	391.1	401.4	512.8	5039.9	19947.1	23047.1	23461.5
47.5°	132.1	186.5	271.9	365.2	328.9	406.6	4672.1	20597.1	23772.3	24103.8
50°	106.2	155.4	284.9	321.1	274.5	344.5	4661.7	21322.3	24147.8	24368.0
52.5°	85.5	126.9	240.9	246.0	233.1	303.0	4941.4	22138.1	24531.1	24712.4
55°	72.5	106.2	158.0	181.3	209.8	274.5	5151.2	23394.2	25445.3	25616.3
57.5°	57.0	90.6	121.7	145.0	186.5	251.2	5179.7	24362.8	26603.0	26714.4
59°	49.2	77.7	108.8	129.5	170.9	235.7	5063.2	24422.4	26678.1	26856.8
60°	41.4	69.9	95.8	121.7	158.0	222.7	4936.3	23989.8	26398.4	26597.8
62.5°	31.1	54.4	69.9	98.4	129.5	191.6	4335.4	22480.0	25328.8	25468.7
65°	20.7	38.8	51.8	72.5	101.0	165.8	3532.6	20522.0	23676.5	23989.8
67.5°	12.9	28.5	41.4	54.4	82.9	139.9	2517.3	17598.1	21363.7	21565.7
70°	7.8	18.1	31.1	44.0	64.7	111.4	1494.3	13910.1	17774.2	17815.6
72.5°	5.2	12.9	20.7	31.1	51.8	101.0	725.2	9067.1	12977.8	13472.4
75°	2.6	7.8	12.9	23.3	41.4	82.9	347.0	6057.7	9442.6	9585.1
77.5°	0.0	2.6	7.8	15.5	31.1	64.7	202.0	3978.0	6438.4	6586.0
80°	0.0	0.0	5.2	12.9	23.3	41.4	121.7	2346.4	3900.3	3972.8
82.5°	0.0	0.0	2.6	10.4	15.5	31.1	62.2	1030.8	2553.6	2579.5
85°	0.0	0.0	2.6	10.4	12.9	20.7	23.3	139.9	1134.4	1155.1
87.5°	0.0	0.0	2.6	12.9	12.9	12.9	12.9	7.8	95.8	119.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)