

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: P453741

Luminaire Tested: **GALN-SA4D-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453741
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-SA4D-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA 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: 26379 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 245
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

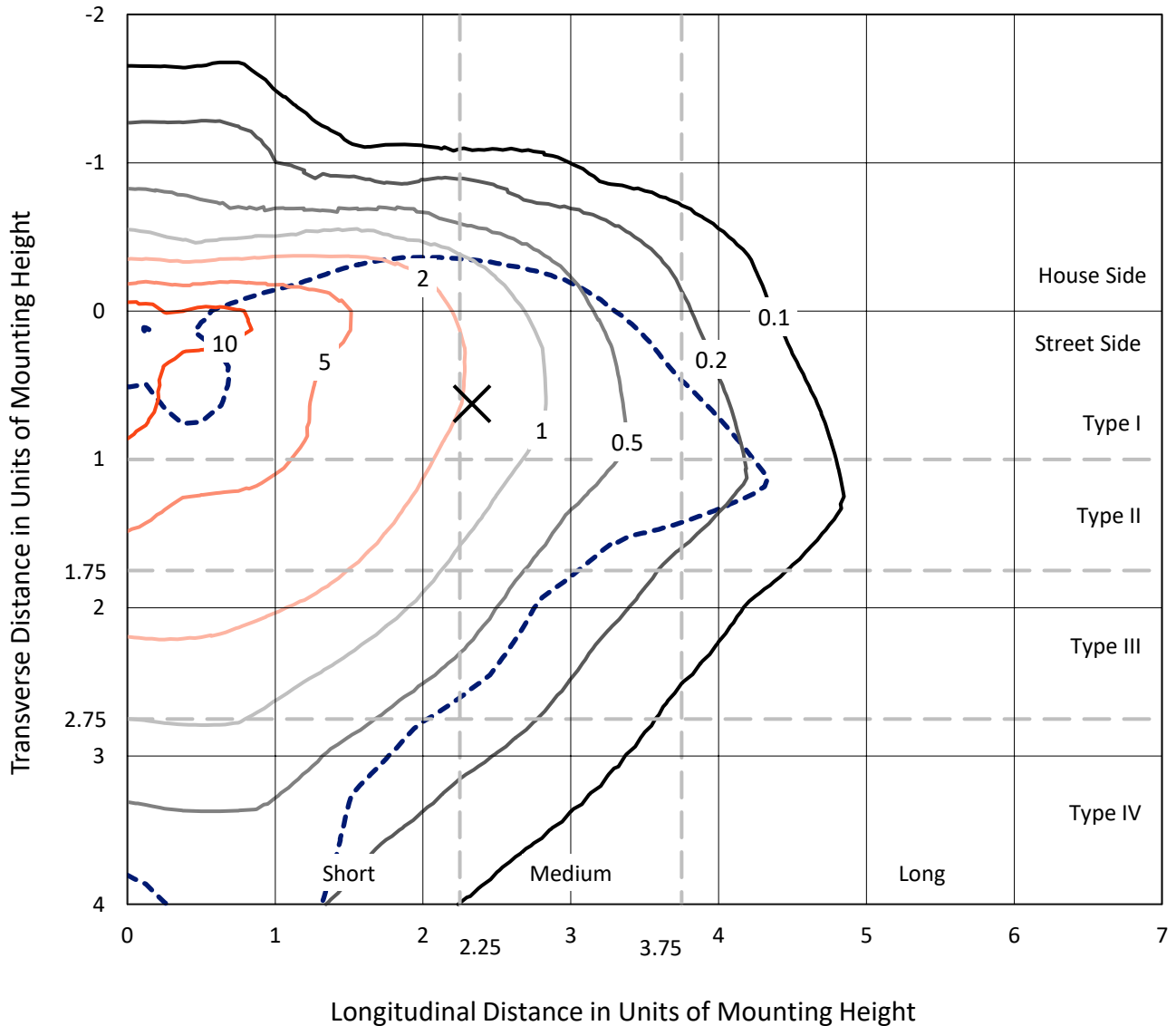




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Iso-Footcandle Lines of Horizontal Illumination

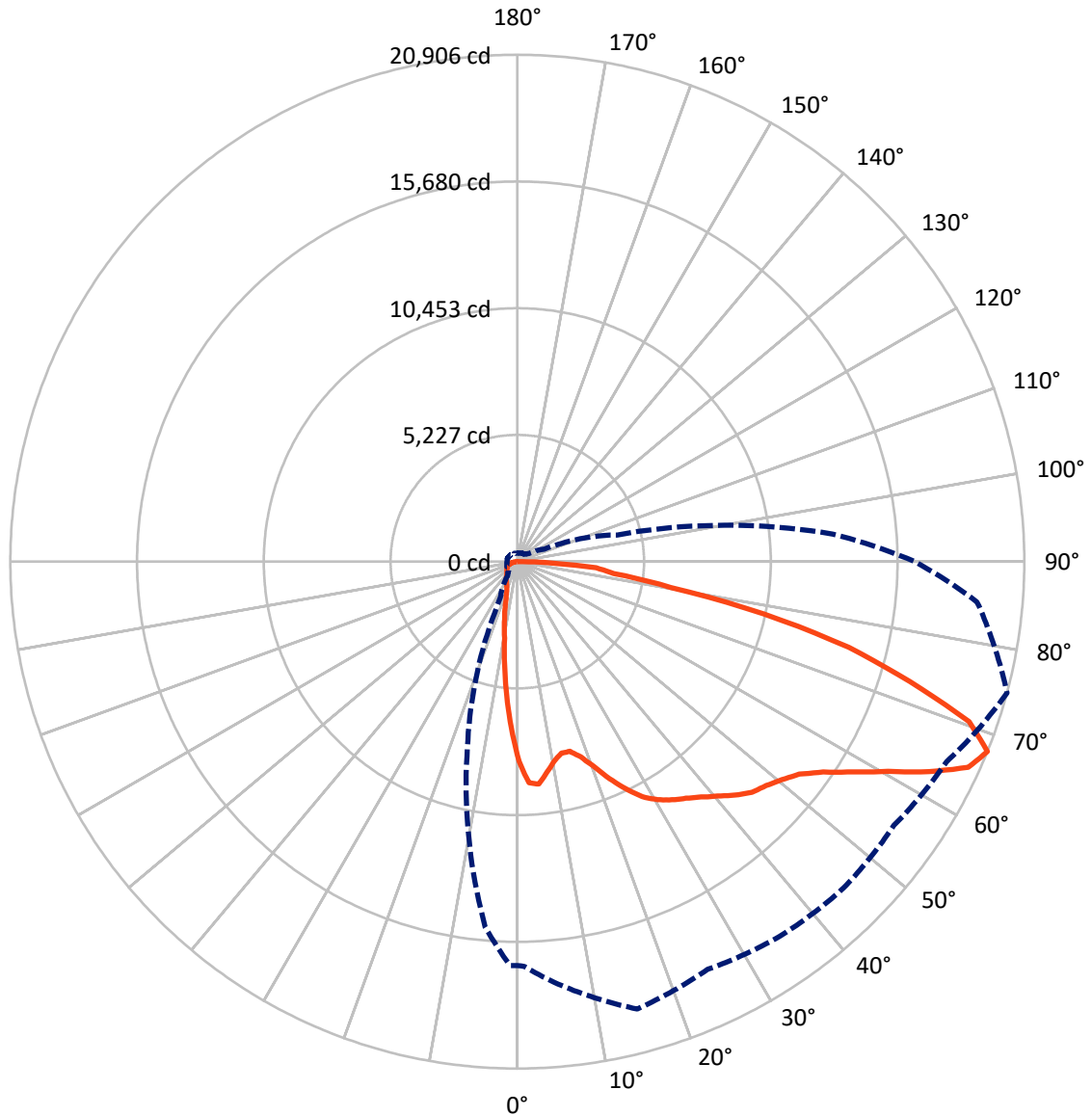
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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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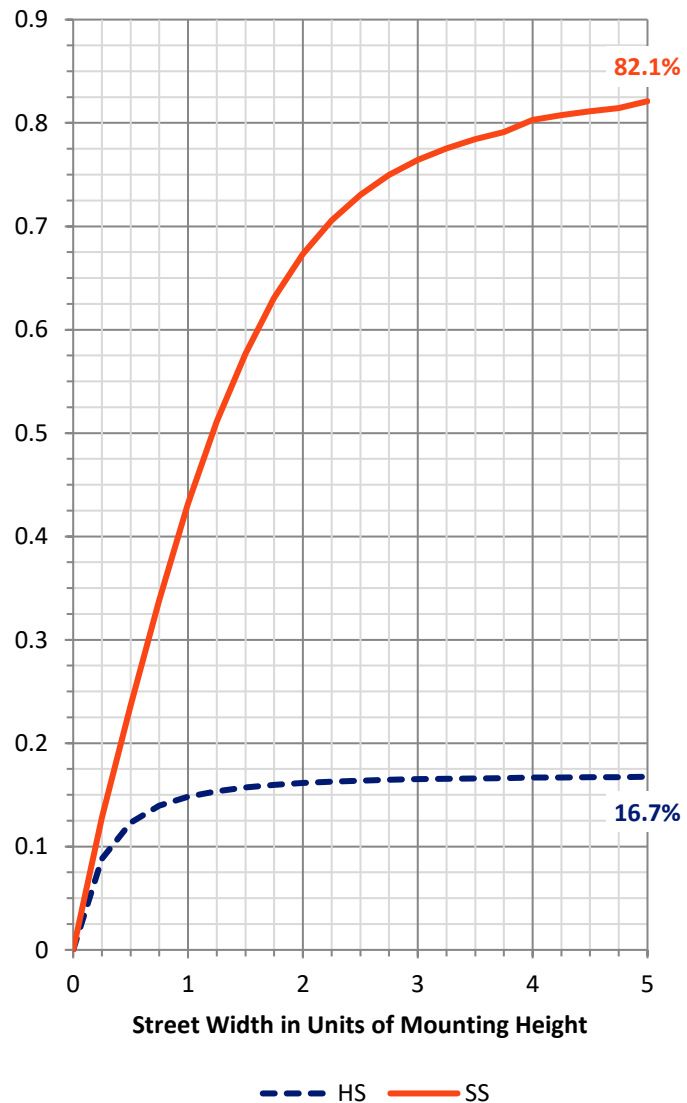
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4458.6	0.0	4458.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	21920.4	0.0	21920.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	26379.0	0.0	26379.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.1	2.4
10°-20°	1303.6	4.9
20°-30°	1876.0	7.1
30°-40°	2701.9	10.2
40°-50°	3795.4	14.4
50°-60°	5293.3	20.1
60°-70°	6293.4	23.9
70°-80°	3706.5	14.1
80°-90°	783.8	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°	26379.0	100.0
0°-180°	26379.0	100.0



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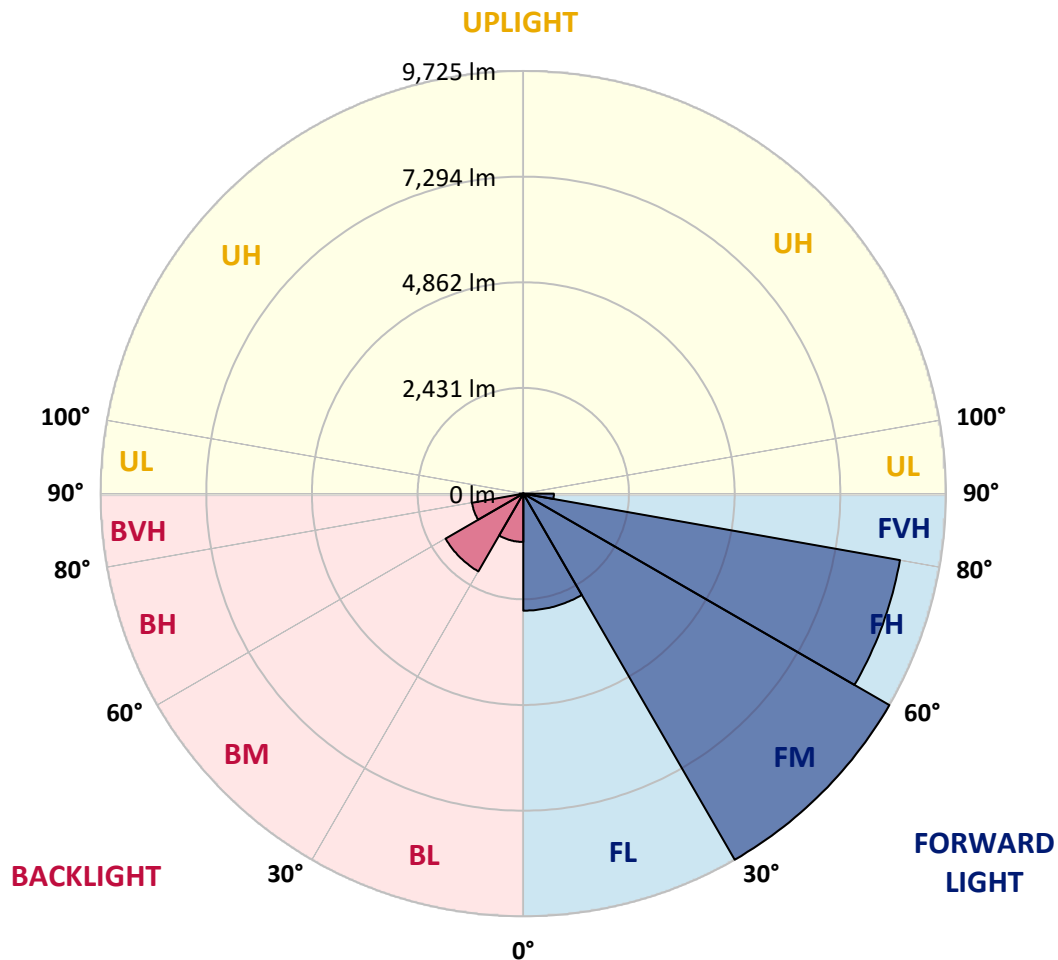
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2692.6	10.2			
FM	(30°-60°)	9725.0	36.9			
FH	(60°-80°)	8800.1	33.4			G4/12000
FVH	(80°-90°)	702.7	2.7			G4/750
BL	(0°-30°)	1112.1	4.2	B3/2500		
BM	(30°-60°)	2065.7	7.8	B2/2500		
BH	(60°-80°)	1199.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	81.1	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°	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4
2.5°	8885.9	8897.8	8973.9	9195.5	9347.7	9403.5	9442.5	9369.7	9298.7	9126.1	8865.6
5°	8858.9	8928.2	9126.1	9623.5	10015.9	10185.1	10235.8	10017.6	9657.3	9214.1	8681.2
7.5°	8341.2	8434.3	8738.8	9572.7	10264.6	10660.4	10608.0	10213.8	9564.2	8774.3	8030.0
10°	7727.2	7830.4	8197.4	9205.6	10097.1	10641.8	10641.8	10161.4	9298.7	8359.8	7502.2
12.5°	7240.0	7348.3	7767.8	8828.4	9748.6	10264.6	10350.8	9938.1	9107.5	8097.6	7155.4
15°	7079.3	7184.2	7635.8	8600.0	9379.9	9694.5	9723.3	9587.9	9014.5	8116.2	7140.2
17.5°	7278.9	7414.2	7871.0	8667.7	9041.5	9060.2	9082.1	9188.7	9024.6	8456.3	7448.1
20°	7855.7	8001.2	8478.2	8885.9	8745.5	8552.7	8564.5	8838.6	9144.7	9017.9	8183.9
22.5°	8688.0	8814.9	9303.7	9269.9	8620.3	8222.8	8139.9	8522.2	9322.3	9718.2	8967.1
25°	9586.2	9735.1	10296.7	9840.0	8655.9	8026.6	7974.2	8336.2	9506.7	10372.8	9872.1
27.5°	10614.7	10760.2	11203.4	10415.1	8841.9	8011.4	7948.8	8319.2	9672.5	10978.4	10736.5
30°	11379.3	11513.0	11814.1	10898.9	9070.3	8112.9	8035.0	8452.9	9814.6	11392.9	11578.9
32.5°	11979.8	12118.5	12282.6	11200.0	9371.4	8297.2	8153.5	8696.5	10000.7	11709.2	12203.1
35°	12605.7	12769.8	12758.0	11467.3	9652.2	8510.4	8370.0	9048.3	10293.3	11984.9	12994.8
37.5°	13399.1	13465.1	13380.5	11707.5	9988.8	8894.4	8816.6	9571.0	10709.5	12318.2	13920.1
40°	14204.3	14336.2	13901.5	11998.4	10398.2	9616.7	9608.2	10344.1	11203.4	12708.9	14816.6
42.5°	14894.4	15006.1	14388.7	12252.2	10893.8	10498.0	10562.3	11381.0	11851.3	13162.3	15537.2
45°	15413.8	15513.6	14838.6	12497.5	11546.8	11516.3	11895.3	12492.4	12668.3	13569.9	15960.1
47.5°	15855.3	15951.7	15151.6	12869.6	12353.7	12732.6	13392.3	13651.1	13366.9	13803.4	16433.8
50°	16227.4	16256.2	15366.4	13312.8	13355.1	14222.9	14862.3	15029.8	14057.1	14138.3	16844.8
52.5°	16614.8	16577.6	15736.9	13871.0	14437.7	15637.1	16102.2	16276.5	14718.5	14551.1	17443.7
55°	17482.6	17518.1	16567.4	14574.7	15532.2	17025.8	17638.2	17470.7	15451.0	15310.6	18204.9
57.5°	18531.4	18500.9	17736.3	15676.0	16646.9	18318.2	18775.0	18506.0	16428.7	16354.3	18976.3
60°	18939.0	18979.6	18714.1	16860.1	17746.5	19449.9	19916.8	19499.0	17601.0	17567.2	19558.2
62.5°	18529.7	18758.0	18937.3	17913.9	18683.6	20282.2	20745.7	20268.6	18824.0	19069.3	19965.8
65°	17714.3	17763.4	18374.0	18807.1	19135.3	20419.2	20661.1	20407.3	19845.7	20437.8	19947.2
67.5°	16655.4	16697.7	17413.2	19099.7	18553.4	18862.9	19032.1	18957.6	19529.4	20906.4	19028.7
70°	15647.2	15613.4	16369.5	18353.7	16151.3	15681.0	15821.4	15588.0	16851.6	19761.1	17227.1
72.5°	13685.0	13806.8	14618.7	16279.9	12788.4	12023.8	12330.0	11726.1	12961.0	16924.4	13982.7
75°	10719.6	10748.4	12103.3	13663.0	9647.1	8441.0	8855.5	8603.4	9927.9	14118.0	9655.6
77.5°	7422.7	7358.4	8814.9	10435.4	6879.7	6179.4	6186.1	6066.0	6932.1	10394.8	6560.0
80°	4714.5	4616.3	5518.0	6446.6	4728.0	5057.9	4892.1	4887.0	4513.2	6412.8	3966.8
82.5°	2547.5	2655.8	3486.4	4041.2	3391.6	3909.3	3582.8	3477.9	3097.3	4014.1	2537.4
85°	1160.4	1261.9	1859.1	2748.8	2576.3	2605.0	1740.6	2053.6	2562.8	3259.7	1355.0
87.5°	113.3	145.5	384.0	1297.4	879.6	693.6	258.8	499.0	644.5	1158.7	108.3
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°	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4
2.5°	8759.1	8671.1	8371.7	8124.7	7862.5	7662.9	7402.4	7228.2	7108.1	6927.1	6905.1
5°	8356.5	8141.6	7620.6	7089.5	6631.0	6285.9	5935.8	5614.4	5424.9	5365.7	5289.6
7.5°	7678.1	7316.1	6646.3	6037.3	5511.2	4997.0	4601.1	4320.3	4132.6	4022.6	3890.7
10°	7119.9	6700.4	5885.0	5139.0	4706.0	4386.3	4037.8	3736.7	3505.0	3307.1	3198.8
12.5°	6744.4	6270.7	5353.9	4748.3	4413.4	4073.3	3665.7	3327.4	2985.7	2760.7	2664.3
15°	6631.0	6130.3	5189.8	4553.8	4073.3	3628.5	3171.7	2730.2	2391.9	2178.8	2107.7
17.5°	6908.5	6302.9	5188.1	4294.9	3674.1	3143.0	2557.7	2143.2	1796.5	1637.5	1586.7
20°	7426.1	6634.4	5203.3	4039.5	3241.1	2493.4	1860.7	1520.7	1355.0	1287.3	1261.9
22.5°	8148.4	7140.2	5249.0	3787.5	2767.4	1914.9	1393.9	1221.3	1162.1	1150.3	1145.2
25°	9038.2	7766.1	5402.9	3560.8	2368.2	1461.5	1165.5	1087.7	1053.9	1042.0	1040.3
27.5°	9856.9	8574.7	5589.0	3366.3	1982.5	1260.2	1053.9	987.9	954.1	952.4	955.7
30°	10596.1	9251.3	5744.6	3148.0	1689.9	1119.8	981.1	915.1	883.0	881.3	891.5
32.5°	11235.5	9807.8	5859.7	2933.2	1527.5	1033.6	915.1	844.1	817.0	812.0	817.0
35°	11918.9	10362.7	5807.2	2765.7	1434.5	962.5	866.1	796.7	764.6	749.4	749.4
37.5°	12698.8	10934.4	5717.6	2627.0	1392.2	903.3	823.8	756.1	724.0	708.8	707.1
40°	13549.6	11506.2	5594.1	2503.6	1349.9	867.8	795.0	724.0	685.1	669.9	666.5
42.5°	14300.7	11995.1	5492.6	2422.4	1280.5	874.6	769.7	700.3	651.3	631.0	629.3
45°	14953.7	12487.3	5474.0	2375.0	1223.0	864.4	762.9	681.7	624.2	602.2	598.8
47.5°	15464.5	12999.9	5580.6	2347.9	1160.4	810.3	806.9	669.9	600.5	576.8	573.4
50°	16087.0	13727.2	5824.1	2292.1	1102.9	759.5	852.6	668.2	581.9	551.5	543.0
52.5°	16915.9	14674.5	6154.0	2192.3	1020.0	712.2	813.7	668.2	559.9	529.5	519.3
55°	18169.4	15882.3	6477.1	2051.9	903.3	649.6	734.1	647.9	527.8	500.7	493.9
57.5°	18999.9	16765.3	6683.5	1857.4	757.8	603.9	632.7	615.7	495.6	466.9	466.9
60°	19042.2	17002.2	6585.4	1612.1	666.5	561.6	549.8	620.8	466.9	436.4	433.0
62.5°	18555.0	16422.0	6074.5	1392.2	617.4	515.9	497.3	544.7	438.1	407.7	402.6
65°	17793.8	14941.8	5188.1	1287.3	590.4	475.3	448.3	446.6	407.7	378.9	372.1
67.5°	16394.9	13057.4	4262.8	1226.4	576.8	429.7	404.3	395.8	372.1	348.5	345.1
70°	14332.8	10936.1	3418.7	1201.0	570.1	382.3	362.0	351.9	331.6	312.9	311.3
72.5°	11151.0	8870.7	2821.6	1184.1	566.7	338.3	316.3	302.8	291.0	274.0	274.0
75°	8009.7	6526.2	2153.4	1067.4	524.4	291.0	267.3	258.8	241.9	228.4	231.7
77.5°	5049.4	4394.7	1417.6	784.9	406.0	233.4	213.1	208.1	194.5	175.9	187.8
80°	3410.2	3090.5	827.2	493.9	255.4	170.9	164.1	162.4	147.2	126.9	128.6
82.5°	2320.9	2276.9	429.7	280.8	147.2	99.8	96.4	99.8	82.9	67.7	67.7
85°	906.7	1238.2	203.0	110.0	47.4	15.2	22.0	23.7	13.5	6.8	8.5
87.5°	16.9	126.9	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°	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4
2.5°	6871.2	6856.0	6881.4	6773.1	6795.1	6835.7	6856.0	6867.9	7035.3	6996.4	7103.0
5°	5360.6	5345.4	5443.5	5457.1	5507.8	5497.7	5546.7	5558.6	5619.5	5641.5	5790.3
7.5°	3899.1	3965.1	4076.7	4134.2	4220.5	4247.6	4222.2	4284.8	4157.9	4249.3	4276.3
10°	3132.8	3053.3	3006.0	3137.9	3154.8	3280.0	3229.2	3188.6	3263.1	3266.5	3337.5
12.5°	2608.4	2437.6	2324.2	2361.5	2402.1	2456.2	2464.6	2545.8	2600.0	2650.7	2693.0
15°	2045.1	1985.9	1882.7	1832.0	1889.5	1911.5	1963.9	2031.6	2089.1	2104.3	2161.9
17.5°	1569.8	1579.9	1563.0	1532.6	1568.1	1585.0	1588.4	1590.1	1605.3	1595.2	1679.7
20°	1263.6	1299.1	1341.4	1348.2	1360.0	1368.5	1353.3	1295.8	1297.4	1333.0	1360.0
22.5°	1143.5	1150.3	1197.6	1212.9	1250.1	1234.9	1190.9	1163.8	1160.4	1168.9	1182.4
25°	1048.8	1058.9	1092.8	1116.4	1145.2	1118.1	1086.0	1060.6	1057.2	1065.7	1079.2
27.5°	964.2	979.4	1009.9	1033.6	1060.6	1035.3	1004.8	982.8	981.1	979.4	987.9
30°	896.5	913.5	935.4	962.5	981.1	959.1	930.4	918.5	916.8	913.5	916.8
32.5°	828.9	855.9	877.9	891.5	910.1	893.2	871.2	864.4	852.6	842.4	837.3
35°	752.8	781.5	815.3	832.3	850.9	834.0	818.7	790.0	769.7	768.0	771.4
37.5°	708.8	720.6	747.7	776.4	795.0	786.6	757.8	729.1	724.0	724.0	727.4
40°	669.9	674.9	686.8	724.0	757.8	732.5	696.9	688.5	688.5	686.8	688.5
42.5°	631.0	636.0	636.0	664.8	718.9	678.3	651.3	651.3	651.3	653.0	658.0
45°	595.4	597.1	595.4	615.7	666.5	632.7	614.0	619.1	622.5	625.9	629.3
47.5°	565.0	566.7	565.0	581.9	607.3	593.7	583.6	590.4	597.1	602.2	605.6
50°	537.9	536.2	539.6	549.8	561.6	565.0	558.2	568.4	571.8	578.5	587.0
52.5°	514.2	512.6	515.9	521.0	537.9	537.9	537.9	546.4	553.1	559.9	571.8
55°	487.2	488.9	493.9	500.7	522.7	519.3	521.0	527.8	534.5	544.7	551.5
57.5°	461.8	465.2	472.0	482.1	504.1	502.4	504.1	507.5	515.9	521.0	527.8
60°	433.0	439.8	448.3	455.0	477.0	475.3	483.8	490.6	495.6	495.6	499.0
62.5°	404.3	414.4	422.9	428.0	451.7	453.3	465.2	470.3	473.6	470.3	475.3
65°	375.5	390.8	394.1	400.9	424.6	426.3	439.8	451.7	448.3	444.9	453.3
67.5°	346.8	365.4	363.7	372.1	395.8	399.2	411.1	431.4	424.6	421.2	428.0
70°	314.6	328.2	329.9	334.9	367.1	362.0	380.6	399.2	394.1	395.8	395.8
72.5°	279.1	291.0	291.0	301.1	334.9	326.5	341.7	362.0	362.0	360.3	360.3
75°	236.8	243.6	250.4	265.6	301.1	291.0	301.1	319.7	323.1	319.7	319.7
77.5°	191.1	201.3	204.7	225.0	250.4	248.7	258.8	267.3	274.0	270.7	270.7
80°	135.3	145.5	159.0	181.0	196.2	201.3	206.4	213.1	216.5	216.5	219.9
82.5°	76.1	91.3	103.2	125.2	131.9	157.3	155.6	160.7	155.6	137.0	152.2
85°	16.9	32.1	45.7	57.5	66.0	91.3	96.4	108.3	89.7	82.9	82.9
87.5°	0.0	0.0	0.0	0.0	0.0	13.5	27.1	37.2	32.1	27.1	27.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4	8241.4
2.5°	7192.6	7339.8	7517.4	7823.6	8038.4	8270.2	8503.6	8752.3	8818.3	8885.9
5°	5830.9	6120.2	6277.5	6688.5	7119.9	7668.0	8116.2	8606.8	8811.5	8858.9
7.5°	4416.7	4613.0	5025.7	5441.8	5976.4	6551.5	7238.3	8002.9	8241.4	8341.2
10°	3501.6	3768.9	4130.9	4577.4	5046.0	5665.1	6439.9	7333.0	7671.4	7727.2
12.5°	2980.6	3278.3	3672.4	4144.4	4587.6	5054.5	5836.0	6757.9	7119.9	7240.0
15°	2383.4	2743.8	3198.8	3696.1	4178.2	4689.1	5480.7	6521.1	6938.9	7079.3
17.5°	1872.6	2163.5	2655.8	3195.4	3767.2	4413.4	5406.3	6634.4	7148.7	7278.9
20°	1432.8	1640.8	2055.3	2625.3	3295.2	4141.0	5424.9	7062.4	7678.1	7855.7
22.5°	1238.2	1344.8	1596.9	2139.9	2889.2	3904.2	5501.0	7649.4	8392.0	8688.0
25°	1121.5	1177.3	1319.4	1674.7	2501.9	3674.1	5675.3	8439.3	9390.0	9586.2
27.5°	1021.7	1062.3	1150.3	1405.7	2150.0	3461.0	5878.3	9315.6	10322.1	10614.7
30°	927.0	981.1	1064.0	1248.4	1925.0	3266.5	6133.7	10026.1	11107.0	11379.3
32.5°	854.3	908.4	984.5	1138.4	1733.9	3061.8	6285.9	10650.2	11748.1	11979.8
35°	795.0	840.7	920.2	1050.5	1588.4	2906.2	6255.5	11145.9	12368.9	12605.7
37.5°	752.8	791.7	871.2	967.6	1478.4	2743.8	6240.3	11800.5	13125.0	13399.1
40°	713.9	754.4	827.2	913.5	1368.5	2552.6	6248.7	12450.1	13930.2	14204.3
42.5°	683.4	729.1	788.3	898.2	1255.2	2398.7	6248.7	13015.1	14630.6	14894.4
45°	658.0	707.1	764.6	896.5	1165.5	2282.0	6206.4	13500.6	15188.8	15413.8
47.5°	636.0	690.2	773.1	866.1	1143.5	2197.4	6169.2	13889.6	15643.8	15855.3
50°	620.8	685.1	822.1	830.6	1150.3	2172.0	6348.5	14380.2	16044.7	16227.4
52.5°	609.0	686.8	820.4	778.1	1138.4	2188.9	6722.4	15146.5	16601.3	16614.8
55°	585.3	685.1	778.1	718.9	1089.4	2217.7	7202.8	16259.6	17472.4	17482.6
57.5°	561.6	666.5	722.3	668.2	989.6	2217.7	7781.3	17313.4	18522.9	18531.4
60°	537.9	693.6	634.3	624.2	859.3	2177.1	8392.0	17776.9	18852.8	18939.0
62.5°	514.2	698.6	566.7	585.3	764.6	2079.0	8847.0	17264.4	18406.2	18529.7
65°	487.2	563.3	522.7	544.7	715.5	1914.9	8703.2	16325.5	17567.2	17714.3
67.5°	455.0	477.0	475.3	502.4	698.6	1673.0	7945.4	15138.0	16663.8	16655.4
70°	416.1	428.0	433.0	461.8	666.5	1485.2	6620.9	13597.0	15457.7	15647.2
72.5°	375.5	385.7	390.8	416.1	634.3	1378.6	5139.0	11474.1	13388.9	13685.0
75°	331.6	338.3	345.1	367.1	600.5	1221.3	3660.6	8759.1	10254.4	10719.6
77.5°	285.9	285.9	294.3	316.3	505.8	1008.2	2456.2	6143.9	6947.4	7422.7
80°	231.7	233.4	230.1	253.7	372.1	690.2	1395.6	4103.8	4623.1	4714.5
82.5°	177.6	172.5	174.2	186.1	277.4	470.3	744.3	2549.2	2598.3	2547.5
85°	111.6	111.6	108.3	121.8	177.6	245.3	406.0	1561.3	1219.6	1160.4
87.5°	45.7	37.2	42.3	49.1	84.6	99.8	159.0	321.4	123.5	113.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)