

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: P647062

Luminaire Tested: **GALN-SA7C-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647062
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-SA7C-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA 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: 33050.4 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

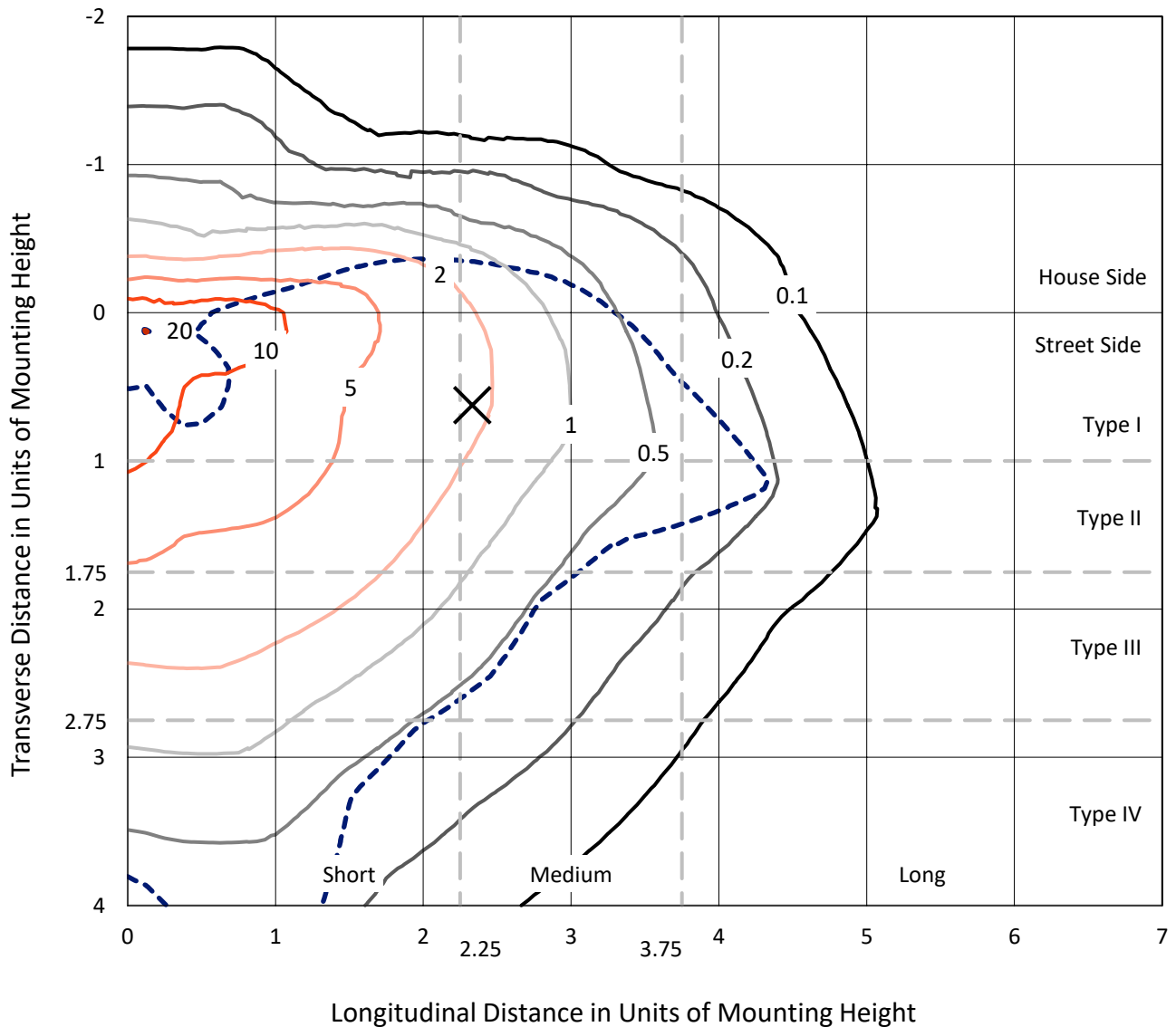
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

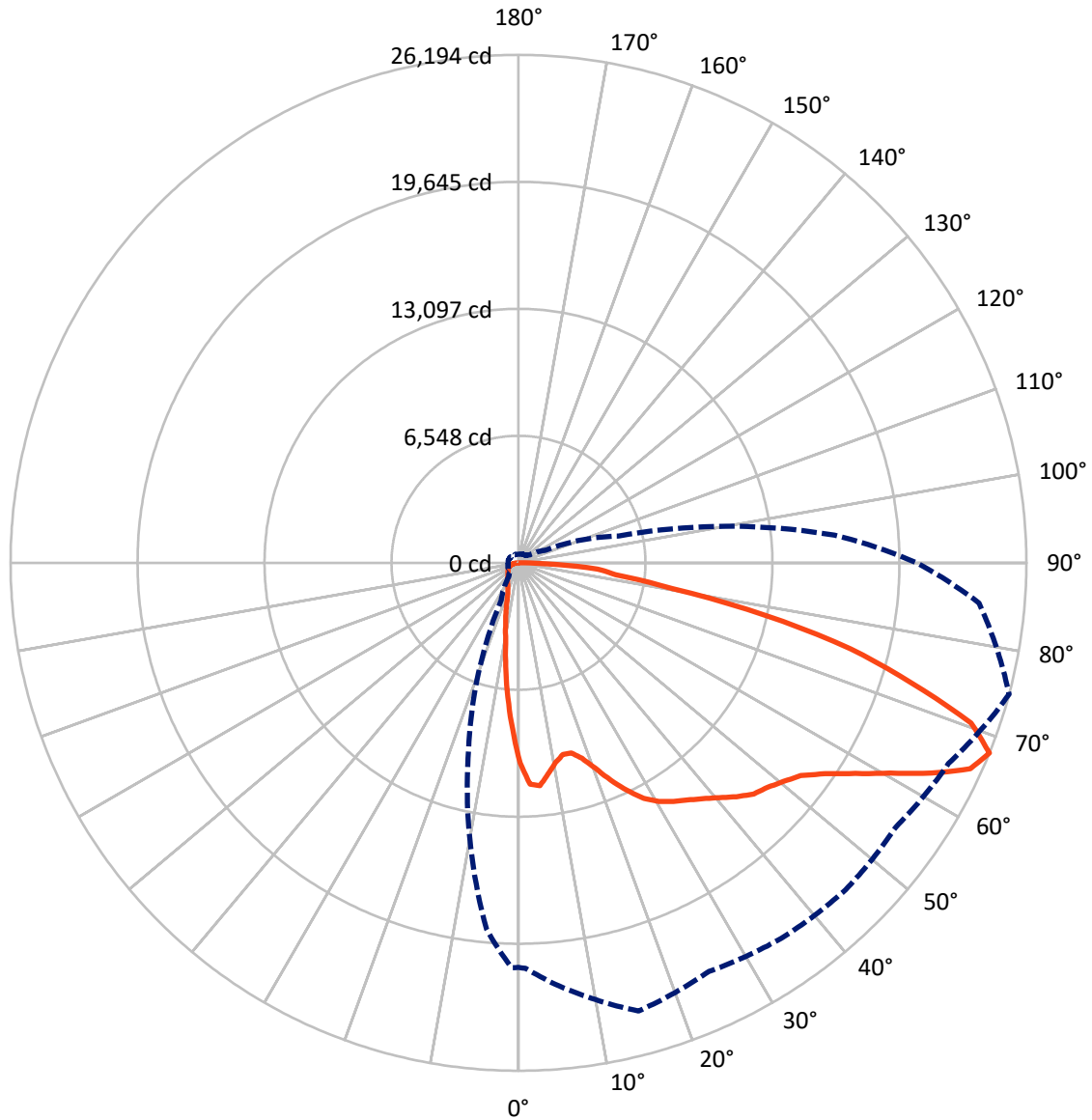
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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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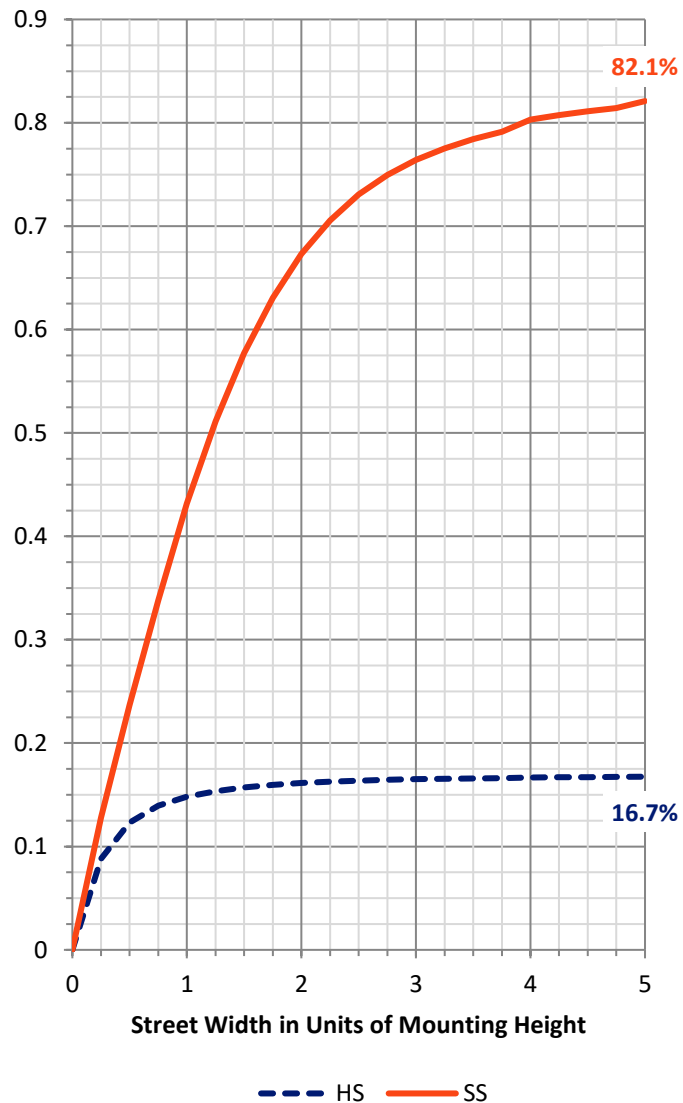
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5586.2	0.0	5586.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27464.2	0.0	27464.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	33050.4	0.0	33050.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.2	2.4
10°-20°	1633.3	4.9
20°-30°	2350.4	7.1
30°-40°	3385.2	10.2
40°-50°	4755.3	14.4
50°-60°	6632.0	20.1
60°-70°	7885.1	23.9
70°-80°	4643.9	14.1
80°-90°	982.0	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°	33050.4	100.0
0°-180°	33050.4	100.0

Coefficient of Utilization

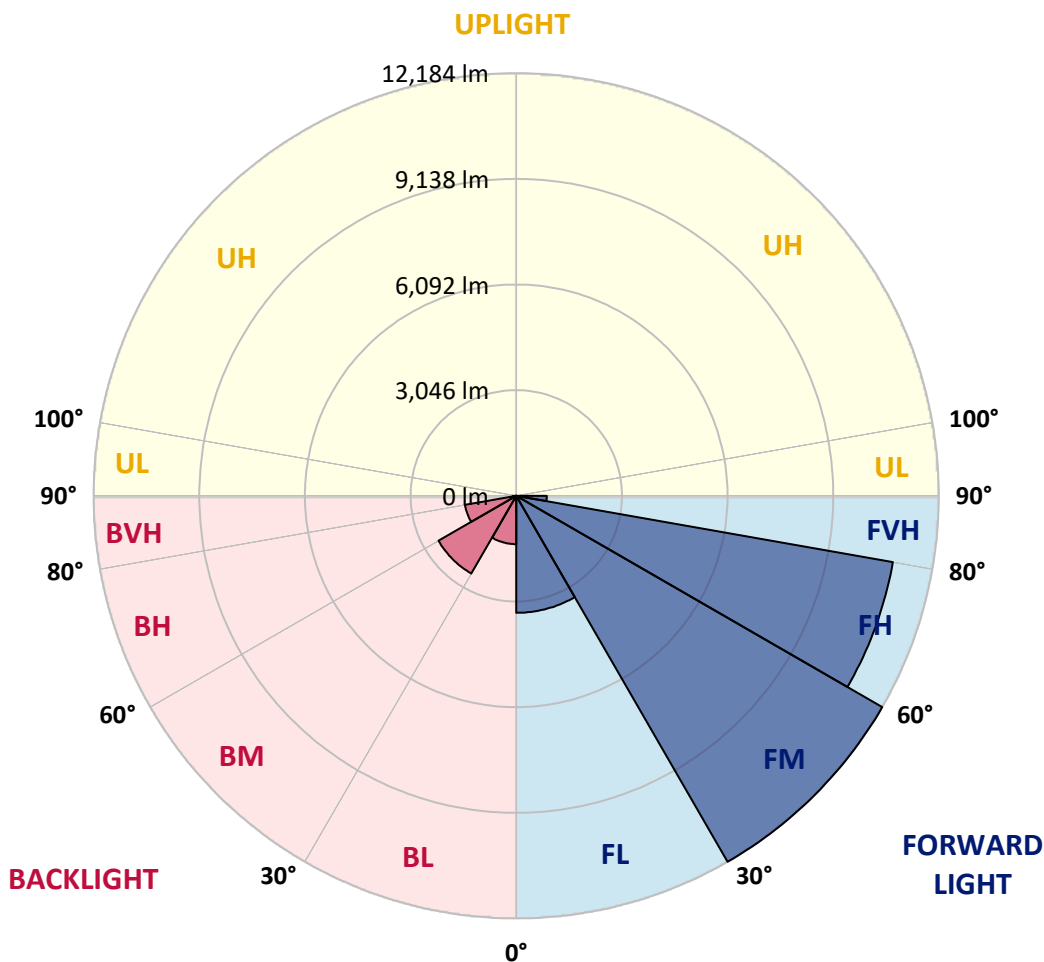


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3373.5	10.2			
FM (30°-60°)	12184.5	36.9			
FH (60°-80°)	11025.8	33.4			G4/12000
FVH (80°-90°)	880.4	2.7			G5
BL (0°-30°)	1393.4	4.2	B3/2500		
BM (30°-60°)	2588.1	7.8	B3/5000		
BH (60°-80°)	1503.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	101.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7
2.5°	11133.2	11148.0	11243.4	11521.1	11711.8	11781.8	11830.5	11739.4	11650.3	11434.1	11107.8
5°	11099.3	11186.3	11434.1	12057.3	12549.0	12760.9	12824.5	12551.1	12099.7	11544.4	10876.8
7.5°	10450.8	10567.4	10948.8	11993.7	12860.5	13356.5	13290.8	12797.0	11983.1	10993.3	10060.8
10°	9681.4	9810.8	10270.6	11533.8	12650.7	13333.2	13333.2	12731.3	11650.3	10474.1	9399.5
12.5°	9071.1	9206.7	9732.3	11061.2	12214.1	12860.5	12968.7	12451.5	11410.9	10145.6	8965.1
15°	8869.7	9001.1	9567.0	10775.0	11752.1	12146.3	12182.3	12012.8	11294.3	10168.9	8946.0
17.5°	9119.8	9289.4	9861.6	10859.8	11328.2	11351.5	11379.1	11512.6	11307.0	10594.9	9331.7
20°	9842.5	10024.7	10622.5	11133.2	10957.3	10715.7	10730.5	11073.9	11457.5	11298.5	10253.7
22.5°	10885.3	11044.2	11656.8	11614.3	10800.5	10302.4	10198.6	10677.5	11680.0	12176.0	11235.0
25°	12010.7	12197.2	12900.8	12328.6	10845.0	10056.5	9990.8	10444.4	11911.1	12996.2	12368.8
27.5°	13299.3	13481.5	14036.8	13049.2	11078.1	10037.5	9959.1	10423.2	12118.7	13755.0	13451.9
30°	14257.3	14424.7	14801.9	13655.3	11364.2	10164.7	10067.2	10590.6	12296.8	14274.2	14507.3
32.5°	15009.6	15183.4	15389.0	14032.6	11741.5	10395.7	10215.6	10895.8	12529.9	14670.5	15289.4
35°	15793.8	15999.4	15984.6	14367.4	12093.4	10662.7	10486.8	11336.7	12896.6	15016.0	16281.2
37.5°	16787.8	16870.4	16764.5	14668.4	12515.1	11143.8	11046.3	11991.6	13418.0	15433.5	17440.5
40°	17796.7	17961.9	17417.3	15032.9	13027.9	12048.8	12038.2	12960.1	14036.8	15923.1	18563.8
42.5°	18661.3	18801.2	18027.6	15350.9	13648.9	13153.0	13233.6	14259.4	14848.6	16491.1	19466.7
45°	19312.0	19437.0	18591.4	15658.1	14467.0	14428.9	14903.6	15651.8	15872.2	17001.8	19996.6
47.5°	19865.2	19986.0	18983.5	16124.4	15478.0	15952.8	16779.3	17103.6	16747.5	17294.4	20590.0
50°	20331.5	20367.5	19252.6	16679.7	16732.7	17820.0	18621.1	18830.9	17612.3	17714.0	21105.1
52.5°	20816.8	20770.2	19716.8	17379.1	18089.1	19591.8	20174.6	20392.9	18440.9	18231.1	21855.3
55°	21904.0	21948.6	20757.4	18260.8	19460.4	21331.8	22099.0	21889.2	19358.7	19182.7	22809.0
57.5°	23218.1	23179.9	22221.9	19640.5	20857.1	22951.1	23523.3	23186.3	20583.7	20490.4	23775.5
60°	23728.8	23779.7	23446.9	21124.1	22234.7	24368.9	24953.9	24430.4	22052.4	22010.0	24504.5
62.5°	23216.0	23502.1	23726.7	22444.5	23408.8	25411.6	25992.4	25394.7	23584.7	23892.1	25015.4
65°	22194.4	22255.8	23021.0	23563.5	23974.7	25583.4	25886.4	25568.5	24864.9	25606.6	24992.0
67.5°	20867.7	20920.7	21817.1	23930.2	23245.6	23633.4	23845.4	23752.1	24468.5	26193.7	23841.2
70°	19604.5	19562.1	20509.5	22995.5	20236.1	19646.9	19822.8	19530.3	21113.5	24758.9	21584.0
72.5°	17146.0	17298.6	18315.9	20397.2	16022.7	15064.7	15448.4	14691.7	16238.9	21204.7	17519.0
75°	13430.6	13466.7	15164.4	17118.4	12086.9	10575.8	11095.1	10779.3	12438.8	17688.5	12097.6
77.5°	9299.9	9219.4	11044.2	13074.6	8619.6	7742.1	7750.7	7600.2	8685.3	13023.7	8219.1
80°	5906.8	5783.9	6913.5	8077.0	5923.7	6337.1	6129.3	6123.0	5654.6	8034.7	4970.0
82.5°	3191.8	3327.4	4368.1	5063.3	4249.4	4898.0	4488.9	4357.5	3880.6	5029.4	3179.1
85°	1453.9	1581.1	2329.2	3444.0	3227.8	3263.9	2180.9	2572.9	3210.9	4084.1	1697.6
87.5°	142.0	182.3	481.1	1625.6	1102.1	869.0	324.2	625.2	807.5	1451.8	135.6
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°	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7
2.5°	10974.3	10864.0	10488.9	10179.5	9851.0	9600.9	9274.5	9056.2	8905.8	8678.9	8651.4
5°	10469.9	10200.7	9547.9	8882.4	8308.1	7875.7	7437.0	7034.3	6796.9	6722.8	6627.4
7.5°	9619.9	9166.4	8327.1	7564.2	6905.0	6260.7	5764.8	5413.0	5177.7	5039.9	4874.6
10°	8920.6	8394.9	7373.4	6438.8	5896.1	5495.6	5059.0	4681.8	4391.4	4143.4	4007.8
12.5°	8450.1	7856.6	6707.9	5949.2	5529.5	5103.5	4592.8	4168.8	3740.8	3458.9	3338.1
15°	8308.1	7680.7	6502.3	5705.4	5103.5	4546.1	3973.9	3420.7	2996.9	2729.8	2640.7
17.5°	8655.7	7896.9	6500.2	5381.2	4603.3	3937.9	3204.5	2685.3	2250.8	2051.6	1988.0
20°	9304.2	8312.3	6519.3	5061.2	4060.8	3124.0	2331.4	1905.4	1697.6	1612.9	1581.1
22.5°	10209.1	8946.0	6576.5	4745.4	3467.4	2399.2	1746.4	1530.2	1456.1	1441.2	1434.8
25°	11324.0	9730.2	6769.3	4461.4	2967.2	1831.2	1460.3	1362.8	1320.4	1305.6	1303.5
27.5°	12349.8	10743.2	7002.5	4217.6	2483.9	1578.9	1320.4	1237.8	1195.3	1193.2	1197.4
30°	13275.9	11591.0	7197.5	3944.2	2117.3	1403.1	1229.2	1146.6	1106.3	1104.2	1116.9
32.5°	14077.1	12288.3	7341.6	3675.0	1913.8	1294.9	1146.6	1057.6	1023.7	1017.4	1023.7
35°	14933.3	12983.5	7275.9	3465.2	1797.2	1206.0	1085.2	998.2	958.0	938.9	938.9
37.5°	15910.4	13699.8	7163.6	3291.4	1744.3	1131.7	1032.2	947.4	907.1	888.0	885.9
40°	16976.5	14416.2	7008.9	3136.7	1691.3	1087.3	996.1	907.1	858.3	839.3	835.1
42.5°	17917.5	15028.7	6881.7	3035.0	1604.4	1095.7	964.3	877.4	816.0	790.5	788.4
45°	18735.5	15645.4	6858.4	2975.6	1532.3	1083.0	955.9	854.1	782.1	754.5	750.3
47.5°	19375.6	16287.7	6991.9	2941.7	1453.9	1015.2	1010.9	839.3	752.4	722.7	718.5
50°	20155.5	17199.0	7297.1	2871.8	1381.8	951.6	1068.2	837.2	729.1	690.9	680.3
52.5°	21194.0	18385.9	7710.4	2746.8	1278.0	892.3	1019.5	837.2	701.5	663.4	650.7
55°	22764.6	19899.1	8115.2	2570.8	1131.7	813.9	919.8	811.7	661.2	627.3	618.9
57.5°	23805.2	21005.4	8373.8	2327.1	949.5	756.6	792.6	771.5	621.0	585.0	585.0
60°	23858.2	21302.1	8250.9	2019.8	835.1	703.6	688.8	777.8	585.0	546.8	542.5
62.5°	23247.7	20575.2	7610.8	1744.3	773.6	646.4	623.1	682.5	549.0	510.8	504.4
65°	22294.0	18720.7	6500.2	1612.9	739.7	595.5	561.6	559.5	510.8	474.7	466.3
67.5°	20541.3	16359.7	5340.9	1536.6	722.7	538.3	506.5	496.0	466.3	436.6	432.4
70°	17957.7	13702.0	4283.3	1504.8	714.3	479.0	453.5	440.8	415.4	392.1	389.9
72.5°	13971.1	11114.1	3535.2	1483.6	710.0	423.9	396.4	379.4	364.6	343.3	343.3
75°	10035.4	8176.6	2698.0	1337.4	657.0	364.6	334.9	324.2	303.1	286.1	290.3
77.5°	6326.4	5506.2	1776.1	983.4	508.6	292.5	267.1	260.7	243.7	220.4	235.3
80°	4272.8	3872.2	1036.4	618.9	320.0	214.1	205.6	203.5	184.4	158.9	161.1
82.5°	2907.8	2852.7	538.3	351.8	184.4	125.0	120.8	125.0	103.8	84.8	84.8
85°	1136.0	1551.4	254.3	137.7	59.4	19.1	27.6	29.7	17.0	8.5	10.6
87.5°	21.2	158.9	6.3	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°	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7
2.5°	8609.0	8590.0	8621.8	8486.1	8513.6	8564.5	8590.0	8604.8	8814.6	8765.8	8899.3
5°	6716.4	6697.3	6820.2	6837.2	6900.8	6888.1	6949.5	6964.4	7040.7	7068.2	7254.7
7.5°	4885.2	4967.9	5107.7	5179.9	5287.9	5321.8	5290.0	5368.5	5209.5	5323.9	5357.8
10°	3925.1	3825.5	3766.2	3931.5	3952.7	4109.5	4045.9	3995.1	4088.4	4092.6	4181.6
12.5°	3268.1	3054.1	2912.1	2958.7	3009.5	3077.3	3088.0	3189.7	3257.5	3321.1	3374.1
15°	2562.4	2488.2	2358.9	2295.3	2367.4	2395.0	2460.7	2545.4	2617.5	2636.5	2708.6
17.5°	1966.8	1979.5	1958.4	1920.2	1964.7	1985.8	1990.2	1992.3	2011.3	1998.6	2104.5
20°	1583.2	1627.7	1680.7	1689.2	1704.0	1714.6	1695.5	1623.5	1625.6	1670.1	1704.0
22.5°	1432.7	1441.2	1500.5	1519.6	1566.2	1547.1	1492.1	1458.2	1453.9	1464.5	1481.4
25°	1314.0	1326.7	1369.2	1398.8	1434.8	1400.9	1360.6	1328.8	1324.6	1335.2	1352.2
27.5°	1208.1	1227.1	1265.2	1294.9	1328.8	1297.0	1258.9	1231.3	1229.2	1227.1	1237.8
30°	1123.3	1144.5	1172.0	1206.0	1229.2	1201.7	1165.7	1150.9	1148.7	1144.5	1148.7
32.5°	1038.5	1072.4	1100.0	1116.9	1140.2	1119.1	1091.5	1083.0	1068.2	1055.5	1049.1
35°	943.1	979.1	1021.6	1042.7	1066.1	1044.8	1025.8	989.8	964.3	962.2	966.5
37.5°	888.0	902.9	936.8	972.8	996.1	985.5	949.5	913.4	907.1	907.1	911.3
40°	839.3	845.6	860.5	907.1	949.5	917.7	873.2	862.6	862.6	860.5	862.6
42.5°	790.5	796.9	796.9	833.0	900.8	849.9	816.0	816.0	816.0	818.1	824.4
45°	746.0	748.2	746.0	771.5	835.1	792.6	769.4	775.7	779.9	784.2	788.4
47.5°	707.9	710.0	707.9	729.1	760.8	743.9	731.2	739.7	748.2	754.5	758.7
50°	674.0	671.8	676.1	688.8	703.6	707.9	699.4	712.1	716.4	724.8	735.5
52.5°	644.3	642.2	646.4	652.8	674.0	674.0	674.0	684.6	693.0	701.5	716.4
55°	610.4	612.5	618.9	627.3	654.9	650.7	652.8	661.2	669.7	682.5	690.9
57.5°	578.6	582.9	591.3	604.0	631.6	629.5	631.6	635.8	646.4	652.8	661.2
60°	542.5	551.1	561.6	570.1	597.7	595.5	606.1	614.7	621.0	621.0	625.2
62.5°	506.5	519.3	529.9	536.2	565.9	568.0	582.9	589.2	593.4	589.2	595.5
65°	470.5	489.6	493.8	502.3	532.0	534.1	551.1	565.9	561.6	557.4	568.0
67.5°	434.5	457.8	455.7	466.3	496.0	500.2	515.0	540.4	532.0	527.7	536.2
70°	394.2	411.2	413.3	419.6	459.9	453.5	476.8	500.2	493.8	496.0	496.0
72.5°	349.7	364.6	364.6	377.2	419.6	409.0	428.1	453.5	453.5	451.4	451.4
75°	296.7	305.2	313.7	332.8	377.2	364.6	377.2	400.6	404.8	400.6	400.6
77.5°	239.5	252.2	256.4	281.9	313.7	311.6	324.2	334.9	343.3	339.1	339.1
80°	169.5	182.3	199.2	226.8	245.9	252.2	258.5	267.1	271.3	271.3	275.5
82.5°	95.4	114.5	129.3	156.8	165.3	197.1	195.0	201.3	195.0	171.6	190.7
85°	21.2	40.2	57.2	72.0	82.7	114.5	120.8	135.6	112.4	103.8	103.8
87.5°	0.0	0.0	0.0	0.0	0.0	17.0	33.9	46.6	40.2	33.9	33.9
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°	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7	10325.7
2.5°	9011.7	9196.1	9418.6	9802.2	10071.4	10361.8	10654.3	10965.8	11048.4	11133.2
5°	7305.5	7668.0	7865.1	8380.1	8920.6	9607.3	10168.9	10783.6	11040.0	11099.3
7.5°	5533.8	5779.6	6296.7	6818.1	7487.8	8208.4	9068.9	10026.9	10325.7	10450.8
10°	4387.1	4722.0	5175.6	5735.1	6322.2	7097.9	8068.6	9187.6	9611.5	9681.4
12.5°	3734.4	4107.4	4601.2	5192.5	5747.8	6332.7	7312.0	8467.0	8920.6	9071.1
15°	2986.2	3437.7	4007.8	4630.9	5234.9	5875.0	6866.8	8170.3	8693.8	8869.7
17.5°	2346.2	2710.7	3327.4	4003.6	4719.9	5529.5	6773.6	8312.3	8956.6	9119.8
20°	1795.1	2055.8	2575.1	3289.3	4128.6	5188.3	6796.9	8848.5	9619.9	9842.5
22.5°	1551.4	1684.9	2000.7	2681.1	3620.0	4891.6	6892.3	9583.9	10514.4	10885.3
25°	1405.2	1475.1	1653.1	2098.2	3134.6	4603.3	7110.6	10573.7	11764.8	12010.7
27.5°	1280.1	1331.0	1441.2	1761.2	2693.8	4336.3	7364.9	11671.6	12932.6	13299.3
30°	1161.4	1229.2	1333.1	1564.1	2411.9	4092.6	7685.0	12561.7	13916.0	14257.3
32.5°	1070.3	1138.1	1233.5	1426.4	2172.4	3836.2	7875.7	13343.7	14719.2	15009.6
35°	996.1	1053.4	1153.0	1316.1	1990.2	3641.1	7837.6	13964.7	15497.1	15793.8
37.5°	943.1	991.9	1091.5	1212.3	1852.3	3437.7	7818.5	14785.0	16444.5	16787.8
40°	894.4	945.2	1036.4	1144.5	1714.6	3198.2	7829.1	15598.8	17453.3	17796.7
42.5°	856.2	913.4	987.7	1125.4	1572.6	3005.3	7829.1	16306.7	18330.7	18661.3
45°	824.4	885.9	958.0	1123.3	1460.3	2859.0	7776.1	16915.0	19030.1	19312.0
47.5°	796.9	864.7	968.6	1085.2	1432.7	2753.1	7729.5	17402.4	19600.2	19865.2
50°	777.8	858.3	1030.0	1040.6	1441.2	2721.3	7954.1	18017.1	20102.6	20331.5
52.5°	763.0	860.5	1027.9	974.9	1426.4	2742.5	8422.5	18977.2	20799.8	20816.8
55°	733.3	858.3	974.9	900.8	1364.9	2778.6	9024.4	20371.7	21891.3	21904.0
57.5°	703.6	835.1	905.0	837.2	1239.9	2778.6	9749.3	21692.1	23207.5	23218.1
60°	674.0	869.0	794.7	782.1	1076.6	2727.7	10514.4	22272.8	23620.8	23728.8
62.5°	644.3	875.3	710.0	733.3	958.0	2604.7	11084.5	21630.6	23061.2	23216.0
65°	610.4	705.8	654.9	682.5	896.5	2399.2	10904.4	20454.4	22010.0	22194.4
67.5°	570.1	597.7	595.5	629.5	875.3	2096.1	9954.8	18966.5	20878.2	20867.7
70°	521.4	536.2	542.5	578.6	835.1	1860.8	8295.3	17035.7	19367.1	19604.5
72.5°	470.5	483.2	489.6	521.4	794.7	1727.3	6438.8	14375.9	16775.1	17146.0
75°	415.4	423.9	432.4	459.9	752.4	1530.2	4586.4	10974.3	12847.9	13430.6
77.5°	358.1	358.1	368.8	396.4	633.7	1263.1	3077.3	7697.7	8704.4	9299.9
80°	290.3	292.5	288.2	317.9	466.3	864.7	1748.5	5141.6	5792.3	5906.8
82.5°	222.5	216.2	218.3	233.1	347.6	589.2	932.6	3193.9	3255.4	3191.8
85°	139.8	139.8	135.6	152.6	222.5	307.3	508.6	1956.2	1528.1	1453.9
87.5°	57.2	46.6	53.0	61.5	105.9	125.0	199.2	402.7	154.7	142.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)