

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: P530497

Luminaire Tested: **GALN-SA5D-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17912 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

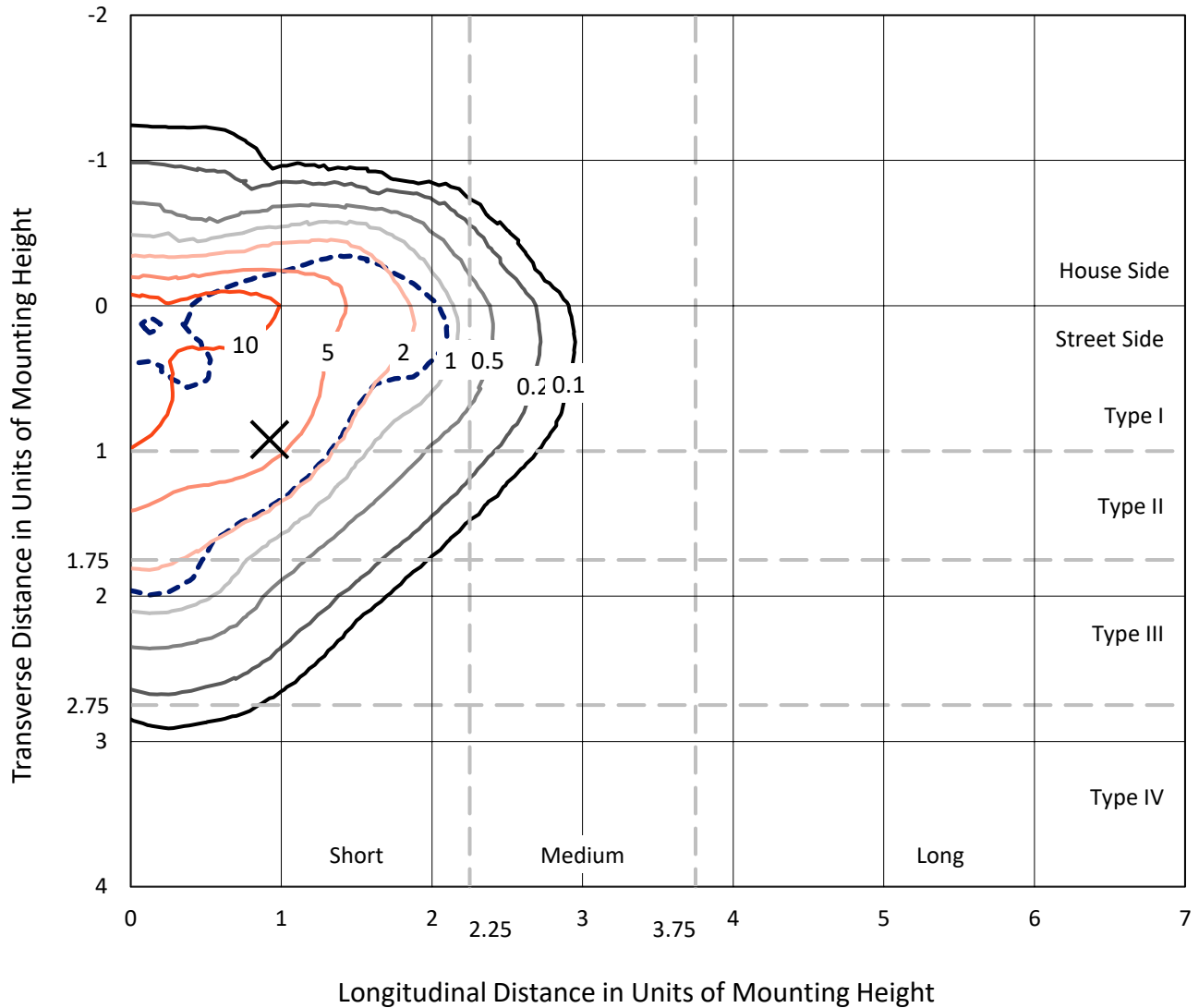
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

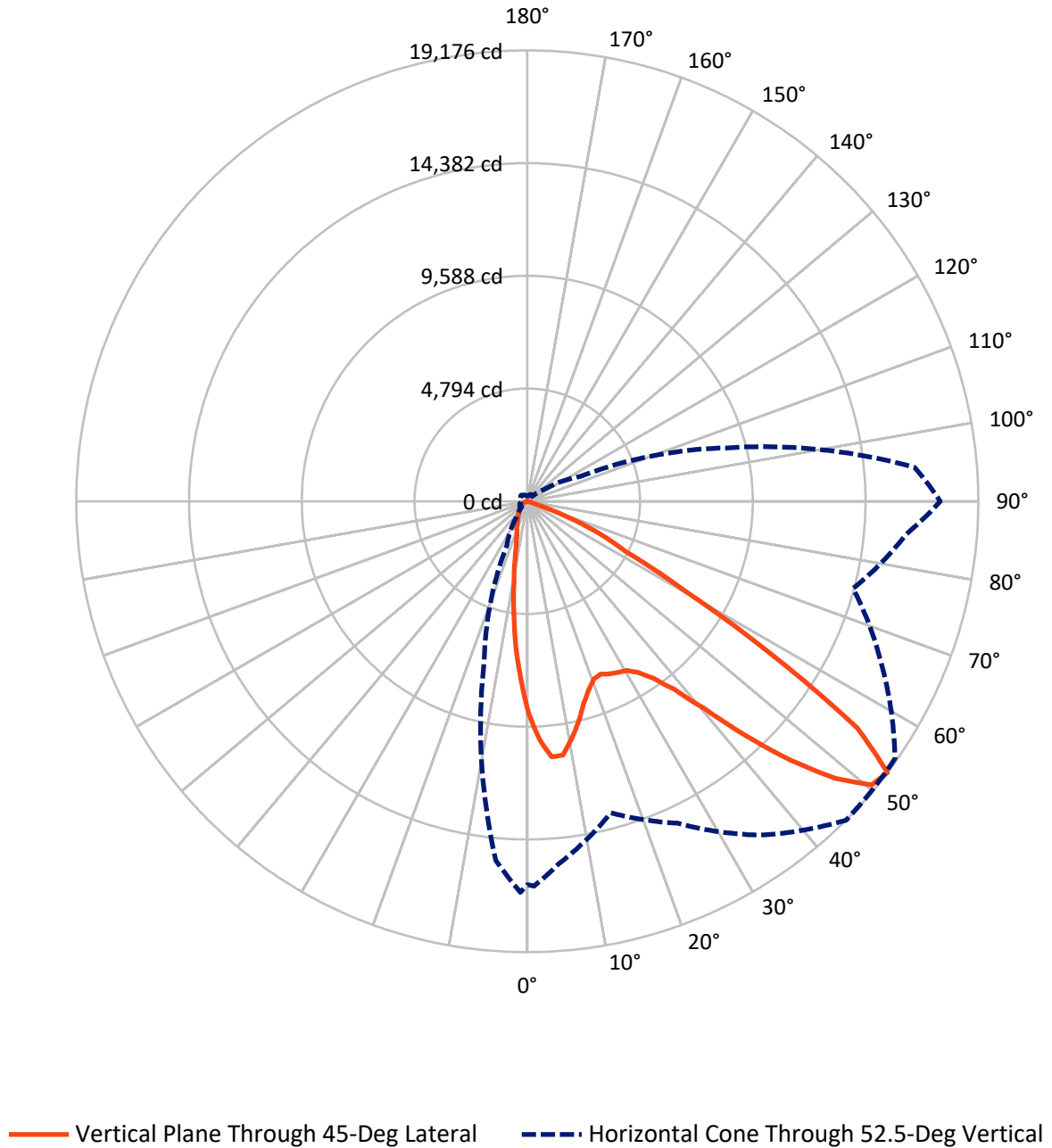
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3635.2	0.0	3635.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14276.8	0.0	14276.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	17912.0	0.0	17912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.4	3.7
10°-20°	1306.8	7.3
20°-30°	1988.7	11.1
30°-40°	2972.4	16.6
40°-50°	4233.0	23.6
50°-60°	4550.3	25.4
60°-70°	2016.3	11.3
70°-80°	163.1	0.9
80°-90°	19.0	0.1
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°	17912.0	100.0
0°-180°	17912.0	100.0

Coefficient of Utilization

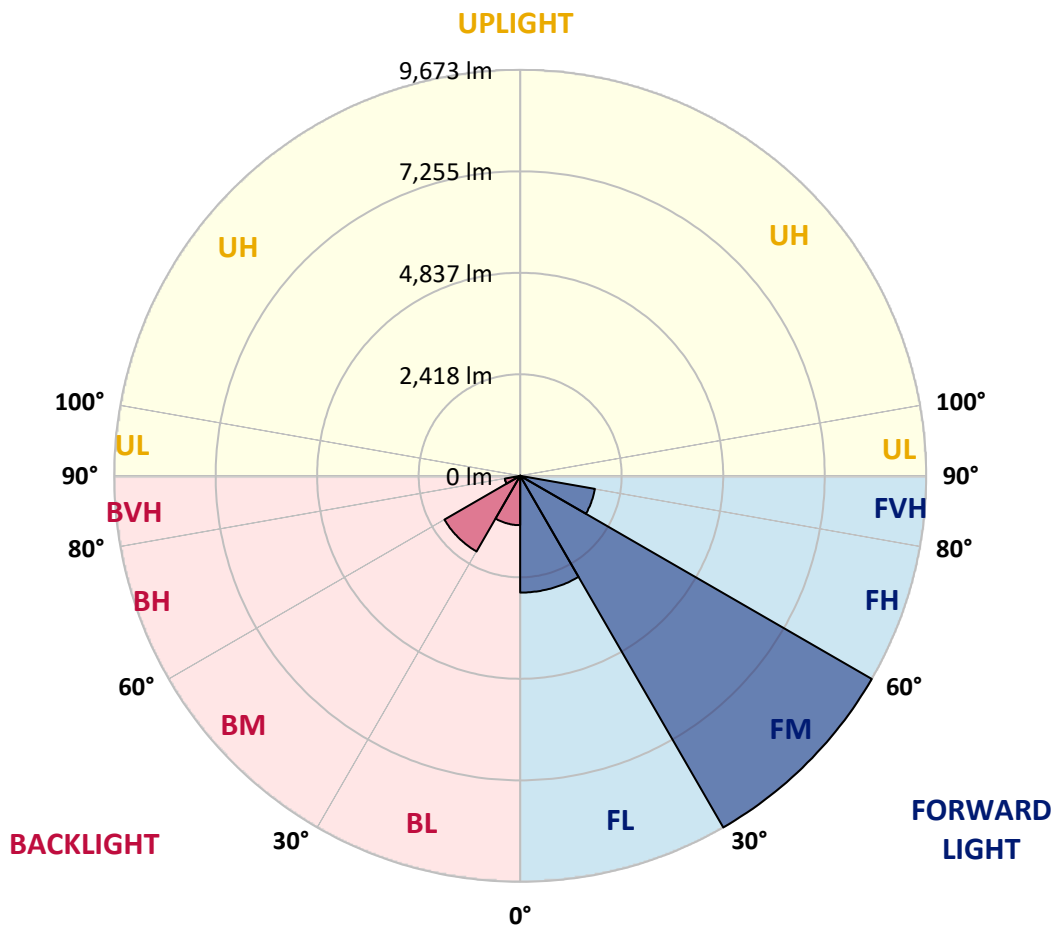


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.1	15.5			
FM (30°-60°)	9673.0	54.0			
FH (60°-80°)	1807.5	10.1			G2/5000
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	1175.8	6.6	B3/2500		
BM (30°-60°)	2082.6	11.6	B2/2500		
BH (60°-80°)	371.9	2.1	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
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°	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2
2.5°	9610.7	9638.8	9793.9	9987.6	10089.8	10322.3	10160.2	10202.5	10114.4	9804.4	9561.3
5°	9318.3	9314.7	9512.0	9991.1	10445.6	10907.1	10921.2	10674.6	10241.3	9765.7	9085.7
7.5°	8437.5	8574.9	8779.2	9543.7	10385.7	10731.0	10896.5	10607.7	9941.8	9261.9	8525.6
10°	7771.7	7842.1	8187.4	9110.4	9726.9	10188.4	10290.6	10125.0	9614.2	8765.1	7940.8
12.5°	7387.7	7422.9	7828.0	8603.1	9254.8	9596.6	9645.9	9723.4	9357.0	8560.8	7570.9
15°	7391.2	7419.4	7965.4	8613.7	8870.8	8779.2	8941.3	8937.8	9096.3	8522.1	7880.9
17.5°	7923.2	7954.9	8448.1	8768.7	8655.9	8441.0	8430.5	8592.5	8927.2	9004.7	8349.4
20°	8839.1	8913.1	9276.0	9258.4	8624.2	8190.9	8071.1	8194.4	8973.0	9413.4	9293.6
22.5°	10072.2	10174.3	10428.0	9941.8	8768.7	8021.8	7983.0	8222.6	9276.0	10325.8	10364.6
25°	11502.5	11675.1	11798.4	11174.9	9283.0	8314.2	8131.0	8543.2	9684.6	11315.8	11728.0
27.5°	12450.2	12629.8	12601.7	11710.4	9628.3	8391.7	8236.7	8620.7	10040.5	11551.8	12439.6
30°	13190.0	13299.2	13496.5	11999.2	9973.5	8610.1	8345.9	8948.3	10156.7	11960.5	13299.2
32.5°	14053.1	14127.1	14141.2	12510.1	10505.5	8884.9	8684.1	9357.0	10671.1	12351.5	14060.2
35°	14923.3	15032.5	14803.5	13140.7	10833.1	9395.8	9247.8	10065.1	11083.3	12756.7	14898.6
37.5°	15867.5	15923.8	15395.4	13401.4	11301.7	10227.2	10146.2	10829.6	11798.4	13489.5	15828.7
40°	16660.1	16713.0	16026.0	13722.0	11794.9	11389.8	11597.6	12288.1	12770.8	13965.1	16293.7
42.5°	17100.5	17223.8	16237.4	13545.8	12784.9	12707.4	13630.4	13873.5	13898.1	14098.9	16709.4
45°	17220.3	17163.9	15888.6	13690.3	13651.5	14874.0	15712.4	16033.0	15018.4	14345.5	16815.1
47.5°	16667.2	16741.2	15374.2	13563.4	14789.4	16515.7	17600.8	18196.1	15853.4	14130.6	16554.4
50°	16219.8	16124.6	15208.7	13471.8	15095.9	17290.7	18964.1	19098.0	16621.4	14394.9	16269.1
52.5°	16307.8	16367.7	15472.9	13714.9	15103.0	17336.5	19175.5	19083.9	16646.0	14335.0	16166.9
55°	16494.5	16230.3	15360.1	13179.4	14091.9	16057.7	17019.5	16878.5	15363.7	13697.3	15916.8
57.5°	14232.8	14641.5	14123.6	11766.7	11565.9	12097.9	12080.3	12513.6	11460.2	11787.9	14490.0
60°	11551.8	11622.3	11816.0	10065.1	8004.2	7821.0	7567.3	7292.5	7711.8	10079.2	13179.4
62.5°	10160.2	10075.7	10766.2	9156.2	5650.8	4731.3	4689.1	4858.2	5950.3	9614.2	12362.1
65°	7384.1	7489.8	7990.1	7105.8	4241.7	3611.0	3547.6	4047.9	4815.9	7704.7	9434.5
67.5°	4509.4	4713.7	4759.5	4382.6	2878.3	2286.4	2194.8	2649.3	3477.2	4985.0	5531.1
70°	2082.1	2328.7	2561.2	2392.1	1666.4	940.6	887.8	1113.3	1754.4	2867.7	2934.6
72.5°	630.6	634.1	887.8	926.5	539.0	211.4	186.7	246.6	595.4	947.7	997.0
75°	45.8	49.3	119.8	137.4	102.2	52.8	56.4	66.9	126.8	211.4	158.5
77.5°	3.5	3.5	3.5	17.6	31.7	35.2	45.8	52.8	66.9	77.5	70.5
80°	3.5	0.0	3.5	14.1	24.7	35.2	42.3	49.3	52.8	59.9	52.8
82.5°	0.0	0.0	0.0	10.6	24.7	35.2	38.8	52.8	59.9	70.5	59.9
85°	0.0	0.0	0.0	10.6	24.7	38.8	35.2	17.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2
2.5°	9603.6	9466.2	9152.7	8994.1	8620.7	8567.9	8201.5	8141.6	8018.3	7951.3	7789.3
5°	8786.3	8620.7	8109.9	7680.1	7179.8	6831.0	6563.3	6320.2	6179.3	6048.9	6108.8
7.5°	8120.4	7637.8	7070.6	6351.9	5774.1	5400.7	4992.0	4657.4	4460.1	4326.2	4357.9
10°	7422.9	7109.4	6320.2	5513.4	4815.9	4551.7	4231.1	3973.9	3695.6	3456.0	3343.3
12.5°	7204.5	6739.4	5749.5	4928.6	4400.2	4143.0	3776.6	3480.7	3124.9	2832.5	2730.3
15°	7243.2	6795.8	5594.5	4717.3	4093.7	3649.8	3212.9	2846.6	2455.5	2251.2	2145.5
17.5°	7873.8	7098.8	5696.6	4495.3	3667.4	3050.9	2511.9	2046.8	1754.4	1543.1	1497.3
20°	8648.9	7754.1	5915.1	4333.3	3318.6	2427.3	1835.5	1433.8	1190.8	1155.5	1145.0
22.5°	9783.3	8825.0	6383.6	4224.0	2892.4	1891.8	1257.7	1042.8	975.9	968.8	972.3
25°	11368.6	10167.3	6894.5	4132.4	2571.8	1458.5	1028.7	884.3	863.1	852.6	870.2
27.5°	12055.6	10977.6	7165.7	3935.2	2279.4	1314.1	1014.6	877.2	817.3	799.7	810.3
30°	12904.6	11516.6	7592.0	3597.0	1849.6	1081.6	947.7	954.7	926.5	838.5	810.3
32.5°	14032.0	12189.5	7806.9	3357.4	1652.3	894.8	694.0	637.7	711.6	725.7	750.4
35°	14754.2	12872.9	7916.1	3216.5	1550.1	764.5	588.3	535.5	517.9	521.4	535.5
37.5°	16096.4	13796.0	8053.5	3068.5	1472.6	665.8	532.0	482.6	458.0	458.0	472.1
40°	16899.7	14528.7	8240.2	2987.5	1395.1	606.0	482.6	440.4	419.2	419.2	426.3
42.5°	17100.5	14891.6	8176.8	2959.3	1307.0	591.9	440.4	408.7	384.0	380.5	377.0
45°	17459.8	15444.7	8187.4	2927.6	1215.4	539.0	415.7	380.5	345.3	341.7	338.2
47.5°	17854.4	15842.8	8208.5	2804.3	1127.4	450.9	433.3	352.3	310.0	303.0	303.0
50°	17516.2	16159.9	8391.7	2681.0	1014.6	366.4	426.3	331.2	274.8	264.2	267.7
52.5°	17558.5	16533.3	8779.2	2508.4	873.7	292.4	345.3	313.5	250.1	232.5	236.0
55°	16882.1	16138.7	8832.1	2325.2	683.5	225.5	264.2	274.8	211.4	204.3	204.3
57.5°	14532.3	13665.6	7792.8	1884.8	450.9	186.7	190.2	239.6	183.2	176.1	179.7
60°	12436.1	10970.5	6270.9	1243.6	281.8	148.0	137.4	243.1	162.1	158.5	169.1
62.5°	11336.9	9015.3	4756.0	771.5	193.8	112.7	95.1	197.3	140.9	140.9	155.0
65°	8190.9	6056.0	2765.5	405.1	137.4	88.1	70.5	112.7	116.3	119.8	126.8
67.5°	5073.1	3057.9	1166.1	197.3	91.6	59.9	45.8	70.5	77.5	77.5	84.6
70°	2504.8	1218.9	387.5	112.7	70.5	49.3	31.7	38.8	38.8	35.2	38.8
72.5°	775.1	366.4	98.6	70.5	49.3	31.7	17.6	14.1	7.0	0.0	3.5
75°	88.1	70.5	63.4	49.3	31.7	14.1	3.5	0.0	0.0	0.0	0.0
77.5°	52.8	59.9	59.9	49.3	31.7	10.6	0.0	0.0	0.0	0.0	0.0
80°	42.3	45.8	49.3	45.8	28.2	14.1	0.0	0.0	0.0	0.0	0.0
82.5°	52.8	59.9	66.9	59.9	38.8	17.6	7.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.6	3.5	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°	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2
2.5°	7722.4	7644.8	7754.1	7592.0	7588.5	7592.0	7546.2	7503.9	7570.9	7750.5	7768.1
5°	5893.9	6059.5	6112.4	6285.0	6189.9	6048.9	6077.1	5982.0	6214.5	6316.7	6235.7
7.5°	4291.0	4280.4	4636.2	4657.4	4703.2	4706.7	4699.6	4512.9	4322.7	4365.0	4491.8
10°	3329.2	3149.5	3322.2	3304.5	3417.3	3385.6	3431.4	3230.6	3297.5	3297.5	3378.5
12.5°	2712.7	2522.4	2490.7	2444.9	2490.7	2508.4	2526.0	2487.2	2600.0	2652.8	2709.2
15°	2071.5	1965.8	1937.6	1849.6	1863.7	1913.0	1955.2	1972.9	1937.6	2018.7	2025.7
17.5°	1504.3	1500.8	1518.4	1514.9	1500.8	1490.2	1486.7	1440.9	1426.8	1433.8	1462.0
20°	1141.4	1169.6	1229.5	1289.4	1321.1	1282.4	1229.5	1152.0	1120.3	1127.4	1130.9
22.5°	975.9	1018.1	1099.2	1166.1	1197.8	1127.4	1032.2	965.3	951.2	947.7	944.2
25°	884.3	933.6	993.5	1014.6	1011.1	968.8	898.4	870.2	863.1	856.1	824.4
27.5°	834.9	852.6	863.1	887.8	898.4	870.2	852.6	810.3	803.2	803.2	782.1
30°	806.8	796.2	810.3	792.7	806.8	785.6	789.1	789.1	771.5	778.6	778.6
32.5°	750.4	753.9	753.9	718.7	729.3	704.6	729.3	750.4	753.9	757.4	785.6
35°	549.6	613.0	644.7	644.7	655.3	637.7	634.1	609.5	577.8	546.1	532.0
37.5°	482.6	507.3	549.6	574.2	591.9	577.8	546.1	507.3	489.7	475.6	461.5
40°	429.8	450.9	479.1	507.3	542.5	524.9	475.6	458.0	436.8	436.8	422.8
42.5°	387.5	398.1	415.7	458.0	496.7	461.5	426.3	412.2	401.6	398.1	394.6
45°	348.8	352.3	369.9	405.1	450.9	415.7	380.5	362.9	366.4	369.9	366.4
47.5°	313.5	320.6	331.2	373.4	401.6	384.0	345.3	334.7	334.7	334.7	338.2
50°	271.3	288.9	310.0	345.3	366.4	355.8	324.1	310.0	303.0	303.0	306.5
52.5°	243.1	257.2	285.4	327.6	355.8	338.2	306.5	285.4	271.3	267.7	274.8
55°	211.4	236.0	281.8	313.5	352.3	334.7	299.5	274.8	250.1	246.6	246.6
57.5°	190.2	229.0	271.3	310.0	341.7	327.6	299.5	267.7	236.0	232.5	232.5
60°	179.7	221.9	264.2	299.5	341.7	320.6	295.9	260.7	225.5	225.5	221.9
62.5°	169.1	207.9	250.1	285.4	327.6	310.0	285.4	250.1	214.9	214.9	207.9
65°	140.9	179.7	207.9	239.6	285.4	267.7	243.1	218.4	190.2	183.2	186.7
67.5°	98.6	123.3	151.5	183.2	211.4	204.3	193.8	176.1	151.5	148.0	144.4
70°	49.3	66.9	91.6	123.3	148.0	140.9	133.9	119.8	105.7	102.2	102.2
72.5°	7.0	21.1	38.8	56.4	77.5	81.0	77.5	74.0	70.5	66.9	70.5
75°	0.0	0.0	0.0	14.1	31.7	38.8	45.8	52.8	52.8	45.8	56.4
77.5°	0.0	0.0	0.0	0.0	3.5	17.6	35.2	45.8	56.4	49.3	66.9
80°	0.0	0.0	0.0	0.0	3.5	21.1	35.2	49.3	56.4	49.3	70.5
82.5°	0.0	0.0	0.0	0.0	3.5	24.7	35.2	45.8	52.8	49.3	63.4
85°	0.0	0.0	0.0	0.0	10.6	21.1	14.1	7.0	3.5	3.5	10.6
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°	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2	9082.2
2.5°	7866.8	8116.9	8384.7	8486.8	8803.9	9043.5	9205.5	9554.3	9607.1	9610.7
5°	6320.2	6447.0	6905.0	7119.9	7592.0	7958.4	8349.4	8913.1	9290.1	9318.3
7.5°	4491.8	4844.1	5037.8	5598.0	6179.3	6753.5	7334.8	7990.1	8426.9	8437.5
10°	3614.6	3843.6	4188.8	4608.0	5097.7	5682.6	6457.6	7218.6	7662.5	7771.7
12.5°	2910.0	3311.6	3706.2	4139.5	4512.9	4953.3	5788.2	6802.9	7169.2	7387.7
15°	2240.6	2607.0	3072.0	3579.3	4002.1	4590.4	5541.6	6700.7	7317.2	7391.2
17.5°	1652.3	1979.9	2409.7	2888.8	3523.0	4357.9	5583.9	7218.6	7799.9	7923.2
20°	1187.2	1377.5	1715.7	2272.3	3079.1	4086.6	5626.2	7743.5	8627.8	8839.1
22.5°	940.6	1018.1	1240.1	1733.3	2582.3	3801.3	5925.6	8747.5	9765.7	10072.2
25°	817.3	859.6	965.3	1366.9	2268.8	3773.1	6404.8	9952.4	11280.5	11502.5
27.5°	789.1	796.2	887.8	1254.2	2099.7	3586.4	6588.0	10808.5	12224.7	12450.2
30°	831.4	944.2	951.2	1060.4	1786.1	3216.5	6683.1	11636.4	13024.4	13190.0
32.5°	718.7	683.5	708.1	820.9	1571.2	3001.6	6862.7	12358.6	13936.9	14053.1
35°	500.3	524.9	581.3	711.6	1374.0	2776.1	6908.5	13154.8	14803.5	14923.3
37.5°	461.5	475.6	521.4	606.0	1208.4	2649.3	6845.1	13736.1	15701.9	15867.5
40°	429.8	447.4	472.1	549.6	1085.1	2508.4	6757.1	14261.0	16251.5	16660.1
42.5°	405.1	419.2	440.4	524.9	979.4	2367.4	6633.8	15000.8	16744.7	17100.5
45°	377.0	398.1	422.8	510.8	919.5	2272.3	6542.2	14955.0	17030.0	17220.3
47.5°	348.8	384.0	412.2	475.6	901.9	2226.5	6580.9	14782.4	16797.5	16667.2
50°	320.6	366.4	415.7	394.6	859.6	2134.9	6626.7	15018.4	16244.4	16219.8
52.5°	295.9	348.8	387.5	324.1	764.5	2046.8	7070.6	15328.4	16635.5	16307.8
55°	260.7	313.5	310.0	260.7	620.0	1979.9	7419.4	15335.5	16371.2	16494.5
57.5°	236.0	278.3	243.1	218.4	458.0	1655.8	6852.2	12858.8	14014.4	14232.8
60°	218.4	271.3	183.2	172.6	299.5	1194.3	5982.0	9959.4	11139.6	11551.8
62.5°	200.8	257.2	144.4	140.9	207.9	849.0	4918.1	8335.3	9600.1	10160.2
65°	176.1	183.2	116.3	109.2	148.0	458.0	2994.5	5738.9	7176.3	7384.1
67.5°	144.4	140.9	95.1	88.1	98.6	221.9	1321.1	2874.7	4160.6	4509.4
70°	116.3	116.3	81.0	70.5	70.5	102.2	345.3	1145.0	1881.3	2082.1
72.5°	84.6	88.1	63.4	56.4	52.8	49.3	56.4	229.0	493.2	630.6
75°	74.0	77.5	63.4	49.3	38.8	31.7	24.7	21.1	28.2	45.8
77.5°	81.0	81.0	66.9	45.8	35.2	24.7	14.1	7.0	7.0	3.5
80°	102.2	105.7	88.1	59.9	42.3	28.2	17.6	7.0	3.5	3.5
82.5°	109.2	119.8	98.6	74.0	52.8	31.7	17.6	3.5	0.0	0.0
85°	28.2	45.8	77.5	66.9	52.8	31.7	17.6	3.5	0.0	0.0
87.5°	0.0	3.5	10.6	10.6	14.1	14.1	10.6	3.5	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)