

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: P456235

Luminaire Tested: **GALN-SA7C-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456235
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-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 35300 lumens
Efficiency: N/A
Efficacy: 93.6 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

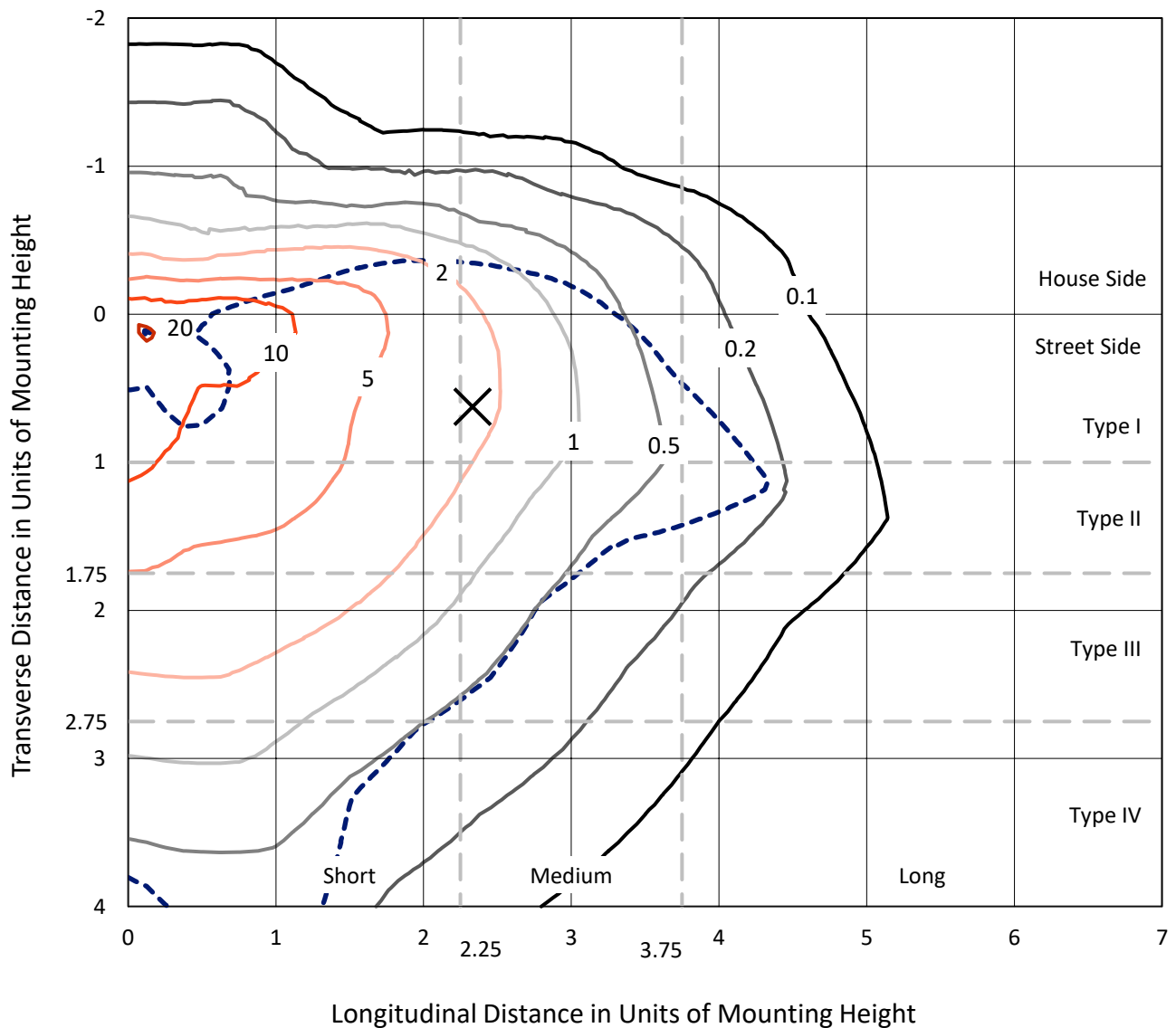
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

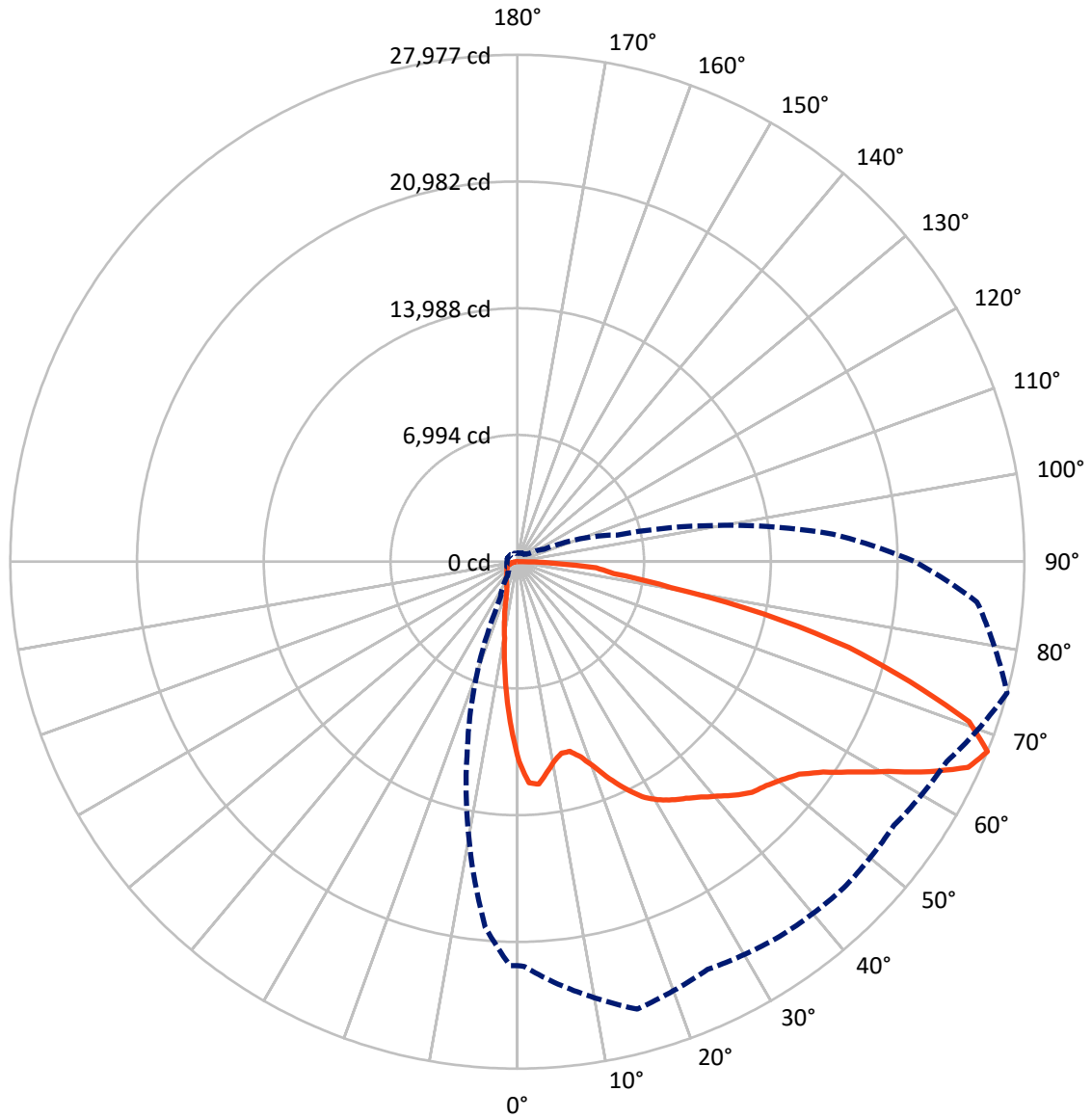
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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	5966.4	0.0	5966.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	29333.5	0.0	29333.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	35300.0	0.0	35300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.5	2.4
10°-20°	1744.5	4.9
20°-30°	2510.4	7.1
30°-40°	3615.6	10.2
40°-50°	5079.0	14.4
50°-60°	7083.4	20.1
60°-70°	8421.7	23.9
70°-80°	4959.9	14.1
80°-90°	1048.8	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°	35300.0	100.0
0°-180°	35300.0	100.0

Coefficient of Utilization



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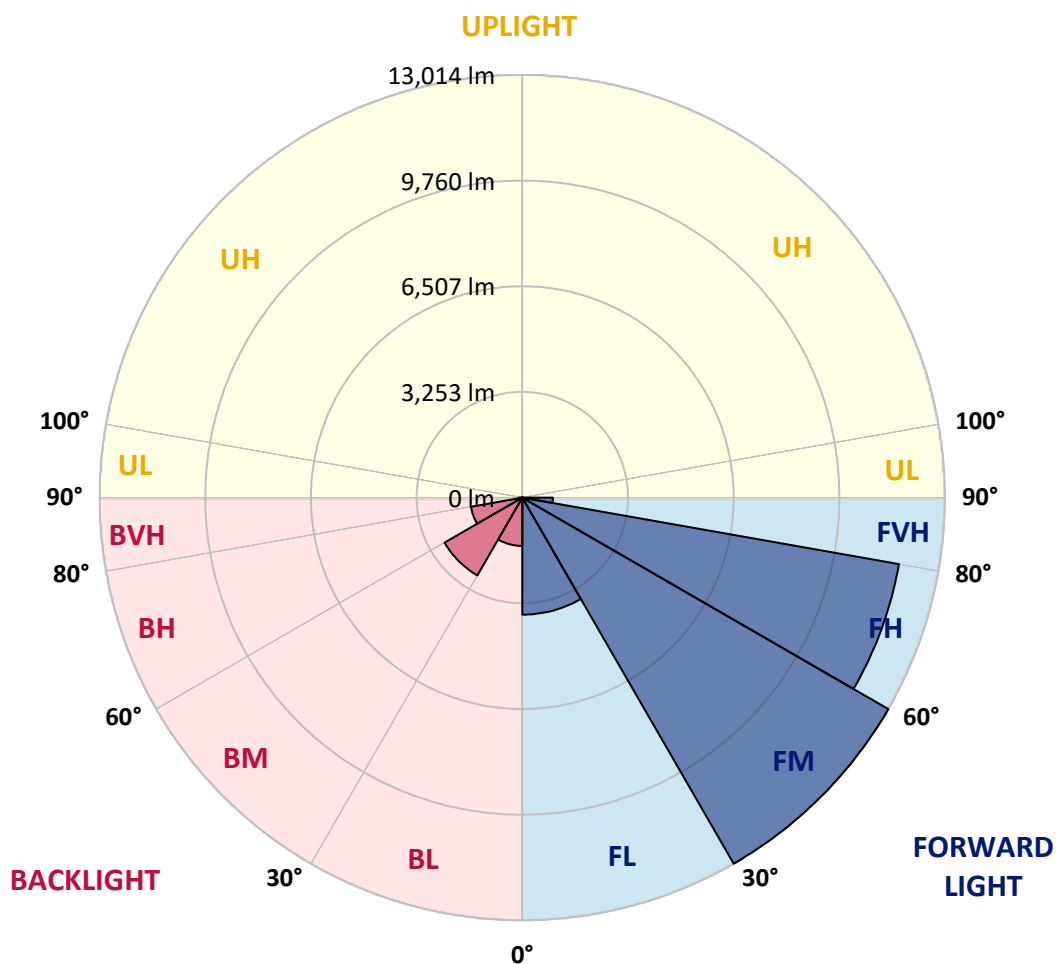
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3603.2	10.2			
FM	(30°-60°)	13013.8	36.9			
FH	(60°-80°)	11776.2	33.4			G4/12000
FVH	(80°-90°)	940.4	2.7			G5
BL	(0°-30°)	1488.2	4.2	B3/2500		
BM	(30°-60°)	2764.3	7.8	B3/5000		
BH	(60°-80°)	1605.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	108.5	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°	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6
2.5°	11891.0	11906.9	12008.7	12305.3	12509.0	12583.7	12635.8	12538.4	12443.3	12212.4	11863.8
5°	11854.8	11947.6	12212.4	12878.0	13403.1	13629.5	13697.4	13405.4	12923.2	12330.2	11617.1
7.5°	11162.1	11286.6	11694.1	12810.1	13735.9	14265.6	14195.4	13668.0	12798.7	11741.6	10745.6
10°	10340.4	10478.5	10969.7	12318.8	13511.8	14240.7	14240.7	13597.8	12443.3	11187.0	10039.3
12.5°	9688.5	9833.3	10394.7	11814.0	13045.5	13735.9	13851.3	13299.0	12187.5	10836.1	9575.3
15°	9473.4	9613.8	10218.2	11508.5	12552.0	12973.0	13011.5	12830.4	12063.0	10861.0	9554.9
17.5°	9740.5	9921.6	10532.8	11599.0	12099.3	12124.2	12153.6	12296.2	12076.6	11316.0	9966.9
20°	10512.4	10707.1	11345.5	11891.0	11703.1	11445.1	11460.9	11827.6	12237.4	12067.6	10951.6
22.5°	11626.2	11795.9	12450.1	12404.9	11535.6	11003.7	10892.7	11404.3	12475.0	13004.7	11999.7
25°	12828.2	13027.4	13778.9	13167.7	11583.2	10741.1	10670.9	11155.3	12721.8	13880.8	13210.7
27.5°	14204.5	14399.1	14992.2	13937.4	11832.2	10720.7	10636.9	11132.7	12943.6	14691.2	14367.5
30°	15227.6	15406.5	15809.4	14584.8	12137.7	10856.5	10752.4	11311.5	13133.8	15245.8	15494.8
32.5°	16031.2	16216.9	16436.4	14987.7	12540.7	11103.3	10910.8	11637.5	13382.8	15669.1	16330.0
35°	16868.8	17088.4	17072.5	15345.4	12916.4	11388.5	11200.6	12108.3	13774.4	16038.0	17389.4
37.5°	17930.5	18018.7	17905.6	15666.8	13366.9	11902.3	11798.2	12807.8	14331.2	16484.0	18627.7
40°	19008.0	19184.5	18602.8	16056.1	13914.7	12868.9	12857.6	13842.3	14992.2	17006.9	19827.4
42.5°	19931.5	20080.9	19254.7	16395.7	14578.0	14048.3	14134.3	15229.9	15859.2	17613.5	20791.7
45°	20626.5	20760.0	19856.8	16723.9	15451.7	15411.0	15918.1	16717.1	16952.6	18159.1	21357.6
47.5°	21217.3	21346.3	20275.6	17221.9	16531.5	17038.6	17921.4	18267.7	17887.4	18471.5	21991.5
50°	21715.3	21753.8	20563.1	17815.0	17871.6	19032.9	19888.5	20112.6	18811.0	18919.7	22541.5
52.5°	22233.7	22183.9	21058.8	18562.0	19320.3	20925.3	21547.8	21780.9	19696.1	19472.0	23342.9
55°	23394.9	23442.5	22170.3	19503.7	20784.9	22783.7	23603.2	23379.1	20676.3	20488.4	24361.5
57.5°	24798.4	24757.7	23734.5	20977.3	22276.7	24513.2	25124.4	24764.4	21984.7	21885.1	25393.7
60°	25343.9	25398.3	25042.9	22561.9	23748.1	26027.6	26652.3	26093.2	23553.4	23508.1	26172.4
62.5°	24796.1	25101.7	25341.7	23972.2	25002.1	27141.3	27761.5	27123.2	25190.0	25518.2	26718.0
65°	23705.1	23770.7	24587.9	25167.4	25606.5	27324.6	27648.4	27308.8	26557.3	27349.5	26693.1
67.5°	22288.0	22344.6	23302.1	25559.0	24827.8	25242.1	25468.4	25368.8	26134.0	27976.6	25463.9
70°	20938.9	20893.6	21905.4	24560.7	21613.4	20984.1	21172.0	20859.6	22550.6	26444.1	23053.1
72.5°	18313.0	18476.0	19562.6	21785.5	17113.3	16090.1	16499.8	15691.7	17344.2	22647.9	18711.4
75°	14344.8	14383.3	16196.5	18283.6	12909.7	11295.7	11850.3	11513.0	13285.4	18892.5	12921.0
77.5°	9932.9	9846.9	11795.9	13964.5	9206.3	8269.2	8278.2	8117.5	9276.5	13910.2	8778.5
80°	6308.8	6177.5	7384.1	8626.8	6326.9	6768.3	6546.5	6539.7	6039.4	8581.5	5308.3
82.5°	3409.1	3553.9	4665.4	5407.9	4538.6	5231.3	4794.4	4654.1	4144.8	5371.7	3395.5
85°	1552.9	1688.7	2487.8	3678.4	3447.6	3486.0	2329.3	2748.1	3429.4	4362.1	1813.2
87.5°	151.7	194.7	513.9	1736.2	1177.1	928.1	346.3	667.8	862.5	1550.6	144.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6
2.5°	11721.2	11603.5	11202.9	10872.4	10521.5	10254.4	9905.8	9672.6	9511.9	9269.7	9240.3
5°	11182.5	10895.0	10197.8	9487.0	8873.6	8411.8	7943.2	7513.1	7259.6	7180.3	7078.5
7.5°	10274.8	9790.3	8893.9	8079.0	7375.0	6686.9	6157.2	5781.4	5530.1	5383.0	5206.4
10°	9527.7	8966.4	7875.3	6877.0	6297.5	5869.7	5403.4	5000.4	4690.3	4425.5	4280.6
12.5°	9025.2	8391.4	7164.5	6354.1	5905.9	5450.9	4905.4	4452.6	3995.4	3694.3	3565.3
15°	8873.6	8203.5	6944.9	6093.8	5450.9	4855.6	4244.4	3653.5	3200.8	2915.6	2820.5
17.5°	9244.8	8434.4	6942.6	5747.4	4916.7	4205.9	3422.7	2868.1	2404.0	2191.2	2123.3
20°	9937.5	8878.1	6963.0	5405.6	4337.2	3336.6	2490.0	2035.0	1813.2	1722.6	1688.7
22.5°	10904.1	9554.9	7024.1	5068.3	3703.3	2562.5	1865.3	1634.4	1555.1	1539.3	1532.5
25°	12094.7	10392.5	7230.1	4765.0	3169.1	1955.8	1559.7	1455.5	1410.3	1394.4	1392.2
27.5°	13190.4	11474.5	7479.1	4504.7	2653.0	1686.4	1410.3	1322.0	1276.7	1274.4	1279.0
30°	14179.6	12380.0	7687.4	4212.7	2261.4	1498.5	1312.9	1224.6	1181.6	1179.4	1192.9
32.5°	15035.2	13124.7	7841.3	3925.2	2044.1	1383.1	1224.6	1129.6	1093.3	1086.6	1093.3
35°	15949.8	13867.2	7771.1	3701.1	1919.6	1288.0	1159.0	1066.2	1023.2	1002.8	1002.8
37.5°	16993.3	14632.3	7651.2	3515.5	1863.0	1208.8	1102.4	1011.9	968.8	948.5	946.2
40°	18131.9	15397.4	7485.9	3350.2	1806.4	1161.3	1063.9	968.8	916.8	896.4	891.9
42.5°	19137.0	16051.6	7350.1	3241.6	1713.6	1170.3	1030.0	937.2	871.5	844.3	842.1
45°	20010.8	16710.3	7325.2	3178.2	1636.6	1156.7	1020.9	912.3	835.3	805.9	801.3
47.5°	20694.4	17396.2	7467.8	3142.0	1552.9	1084.3	1079.8	896.4	803.6	771.9	767.4
50°	21527.4	18369.6	7793.8	3067.3	1475.9	1016.4	1140.9	894.1	778.7	738.0	726.6
52.5°	22636.6	19637.3	8235.2	2933.7	1365.0	953.0	1088.8	894.1	749.3	708.5	694.9
55°	24314.0	21253.5	8667.6	2745.8	1208.8	869.2	982.4	867.0	706.3	670.0	661.0
57.5°	25425.4	22435.1	8943.7	2485.5	1014.1	808.1	846.6	824.0	663.3	624.8	624.8
60°	25482.0	22752.1	8812.4	2157.3	891.9	751.5	735.7	830.8	624.8	584.0	579.5
62.5°	24830.1	21975.6	8128.8	1863.0	826.2	690.4	665.5	728.9	586.3	545.5	538.8
65°	23811.4	19994.9	6942.6	1722.6	790.0	636.1	599.9	597.6	545.5	507.1	498.0
67.5°	21939.4	17473.2	5704.4	1641.2	771.9	575.0	541.0	529.7	498.0	466.3	461.8
70°	19180.0	14634.6	4574.9	1607.2	762.9	511.6	484.4	470.8	443.7	418.8	416.5
72.5°	14922.1	11870.6	3775.8	1584.6	758.3	452.7	423.3	405.2	389.3	366.7	366.7
75°	10718.4	8733.2	2881.6	1428.4	701.7	389.3	357.7	346.3	323.7	305.6	310.1
77.5°	6757.0	5881.0	1896.9	1050.3	543.3	312.4	285.2	278.4	260.3	235.4	251.3
80°	4563.5	4135.7	1106.9	661.0	341.8	228.6	219.6	217.3	196.9	169.8	172.0
82.5°	3105.7	3046.9	575.0	375.8	196.9	133.6	129.0	133.6	110.9	90.5	90.5
85°	1213.3	1657.0	271.6	147.1	63.4	20.4	29.4	31.7	18.1	9.1	11.3
87.5°	22.6	169.8	6.8	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°	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6
2.5°	9195.0	9174.6	9208.6	9063.7	9093.1	9147.5	9174.6	9190.5	9414.6	9362.5	9505.1
5°	7173.5	7153.2	7284.5	7302.6	7370.5	7356.9	7422.5	7438.4	7519.9	7549.3	7748.5
7.5°	5217.7	5306.0	5455.4	5532.4	5647.8	5684.1	5650.1	5733.9	5564.1	5686.3	5722.5
10°	4192.3	4085.9	4022.5	4199.1	4221.7	4389.2	4321.3	4267.0	4366.6	4371.1	4466.2
12.5°	3490.6	3261.9	3110.3	3160.1	3214.4	3286.8	3298.2	3406.8	3479.2	3547.2	3603.7
15°	2736.8	2657.5	2519.5	2451.5	2528.5	2557.9	2628.1	2718.7	2795.6	2816.0	2893.0
17.5°	2100.7	2114.3	2091.6	2050.9	2098.4	2121.1	2125.6	2127.8	2148.2	2134.6	2247.8
20°	1691.0	1738.5	1795.1	1804.1	1820.0	1831.3	1810.9	1734.0	1736.2	1783.8	1820.0
22.5°	1530.2	1539.3	1602.7	1623.0	1672.8	1652.5	1593.6	1557.4	1552.9	1564.2	1582.3
25°	1403.5	1417.1	1462.3	1494.0	1532.5	1496.3	1453.3	1419.3	1414.8	1426.1	1444.2
27.5°	1290.3	1310.7	1351.4	1383.1	1419.3	1385.4	1344.6	1315.2	1312.9	1310.7	1322.0
30°	1199.7	1222.4	1251.8	1288.0	1312.9	1283.5	1245.0	1229.2	1226.9	1222.4	1226.9
32.5°	1109.2	1145.4	1174.8	1192.9	1217.8	1195.2	1165.8	1156.7	1140.9	1127.3	1120.5
35°	1007.3	1045.8	1091.1	1113.7	1138.6	1116.0	1095.6	1057.1	1030.0	1027.7	1032.2
37.5°	948.5	964.3	1000.5	1039.0	1063.9	1052.6	1014.1	975.6	968.8	968.8	973.4
40°	896.4	903.2	919.0	968.8	1014.1	980.2	932.6	921.3	921.3	919.0	921.3
42.5°	844.3	851.1	851.1	889.6	962.1	907.7	871.5	871.5	871.5	873.8	880.6
45°	796.8	799.1	796.8	824.0	891.9	846.6	821.7	828.5	833.0	837.6	842.1
47.5°	756.1	758.3	756.1	778.7	812.7	794.5	781.0	790.0	799.1	805.9	810.4
50°	719.8	717.6	722.1	735.7	751.5	756.1	747.0	760.6	765.1	774.2	785.5
52.5°	688.2	685.9	690.4	697.2	719.8	719.8	719.8	731.2	740.2	749.3	765.1
55°	651.9	654.2	661.0	670.0	699.5	694.9	697.2	706.3	715.3	728.9	738.0
57.5°	618.0	622.5	631.6	645.1	674.6	672.3	674.6	679.1	690.4	697.2	706.3
60°	579.5	588.6	599.9	608.9	638.4	636.1	647.4	656.5	663.3	663.3	667.8
62.5°	541.0	554.6	565.9	572.7	604.4	606.7	622.5	629.3	633.8	629.3	636.1
65°	502.5	522.9	527.4	536.5	568.2	570.4	588.6	604.4	599.9	595.3	606.7
67.5°	464.1	489.0	486.7	498.0	529.7	534.2	550.1	577.2	568.2	563.7	572.7
70°	421.0	439.2	441.4	448.2	491.2	484.4	509.3	534.2	527.4	529.7	529.7
72.5°	373.5	389.3	389.3	402.9	448.2	436.9	457.3	484.4	484.4	482.2	482.2
75°	316.9	326.0	335.0	355.4	402.9	389.3	402.9	427.8	432.4	427.8	427.8
77.5°	255.8	269.4	273.9	301.1	335.0	332.8	346.3	357.7	366.7	362.2	362.2
80°	181.1	194.7	212.8	242.2	262.6	269.4	276.2	285.2	289.7	289.7	294.3
82.5°	101.9	122.2	138.1	167.5	176.6	210.5	208.3	215.0	208.3	183.4	203.7
85°	22.6	43.0	61.1	77.0	88.3	122.2	129.0	144.9	120.0	110.9	110.9
87.5°	0.0	0.0	0.0	0.0	0.0	18.1	36.2	49.8	43.0	36.2	36.2
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°	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6	11028.6
2.5°	9625.1	9822.0	10059.7	10469.4	10756.9	11067.0	11379.4	11712.2	11800.5	11891.0
5°	7802.8	8189.9	8400.4	8950.5	9527.7	10261.2	10861.0	11517.5	11791.4	11854.8
7.5°	5910.4	6173.0	6725.3	7282.2	7997.5	8767.2	9686.2	10709.4	11028.6	11162.1
10°	4685.8	5043.4	5527.9	6125.5	6752.5	7581.0	8617.8	9813.0	10265.7	10340.4
12.5°	3988.6	4387.0	4914.4	5546.0	6139.0	6763.8	7809.6	9043.3	9527.7	9688.5
15°	3189.5	3671.7	4280.6	4946.1	5591.2	6274.9	7334.3	8726.4	9285.5	9473.4
17.5°	2505.9	2895.2	3553.9	4276.1	5041.2	5905.9	7234.7	8878.1	9566.2	9740.5
20°	1917.3	2195.8	2750.3	3513.2	4409.6	5541.4	7259.6	9450.8	10274.8	10512.4
22.5°	1657.0	1799.6	2136.9	2863.5	3866.3	5224.5	7361.4	10236.3	11230.0	11626.2
25°	1500.8	1575.5	1765.7	2241.0	3348.0	4916.7	7594.6	11293.4	12565.6	12828.2
27.5°	1367.3	1421.6	1539.3	1881.1	2877.1	4631.4	7866.2	12466.0	13812.9	14204.5
30°	1240.5	1312.9	1423.8	1670.6	2576.0	4371.1	8208.0	13416.7	14863.2	15227.6
32.5°	1143.1	1215.6	1317.5	1523.4	2320.3	4097.2	8411.8	14252.0	15721.1	16031.2
35°	1063.9	1125.0	1231.4	1405.7	2125.6	3889.0	8371.0	14915.3	16551.9	16868.8
37.5°	1007.3	1059.4	1165.8	1294.8	1978.4	3671.7	8350.6	15791.3	17563.7	17930.5
40°	955.3	1009.6	1106.9	1222.4	1831.3	3415.9	8362.0	16660.5	18641.2	19008.0
42.5°	914.5	975.6	1054.9	1202.0	1679.6	3209.9	8362.0	17416.6	19578.4	19931.5
45°	880.6	946.2	1023.2	1199.7	1559.7	3053.7	8305.4	18066.3	20325.4	20626.5
47.5°	851.1	923.6	1034.5	1159.0	1530.2	2940.5	8255.6	18586.9	20934.3	21217.3
50°	830.8	916.8	1100.1	1111.5	1539.3	2906.5	8495.5	19243.4	21470.8	21715.3
52.5°	814.9	919.0	1097.9	1041.3	1523.4	2929.2	8995.8	20268.8	22215.6	22233.7
55°	783.2	916.8	1041.3	962.1	1457.8	2967.7	9638.7	21758.3	23381.4	23394.9
57.5°	751.5	891.9	966.6	894.1	1324.2	2967.7	10412.8	23168.6	24787.1	24798.4
60°	719.8	928.1	848.9	835.3	1149.9	2913.3	11230.0	23788.8	25228.5	25343.9
62.5°	688.2	934.9	758.3	783.2	1023.2	2782.0	11838.9	23102.9	24630.9	24796.1
65°	651.9	753.8	699.5	728.9	957.5	2562.5	11646.5	21846.6	23508.1	23705.1
67.5°	608.9	638.4	636.1	672.3	934.9	2238.8	10632.4	20257.5	22299.3	22288.0
70°	556.9	572.7	579.5	618.0	891.9	1987.5	8860.0	18195.3	20685.3	20938.9
72.5°	502.5	516.1	522.9	556.9	848.9	1844.9	6877.0	15354.4	17916.9	18313.0
75°	443.7	452.7	461.8	491.2	803.6	1634.4	4898.6	11721.2	13722.3	14344.8
77.5°	382.6	382.6	393.9	423.3	676.8	1349.1	3286.8	8221.6	9296.9	9932.9
80°	310.1	312.4	307.9	339.5	498.0	923.6	1867.5	5491.6	6186.6	6308.8
82.5°	237.7	230.9	233.2	249.0	371.2	629.3	996.0	3411.3	3477.0	3409.1
85°	149.4	149.4	144.9	163.0	237.7	328.2	543.3	2089.4	1632.1	1552.9
87.5°	61.1	49.8	56.6	65.6	113.2	133.6	212.8	430.1	165.2	151.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)