

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: P455104

Luminaire Tested: **GALN-SA6B-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455104
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-SA6B-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA 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: 26488 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

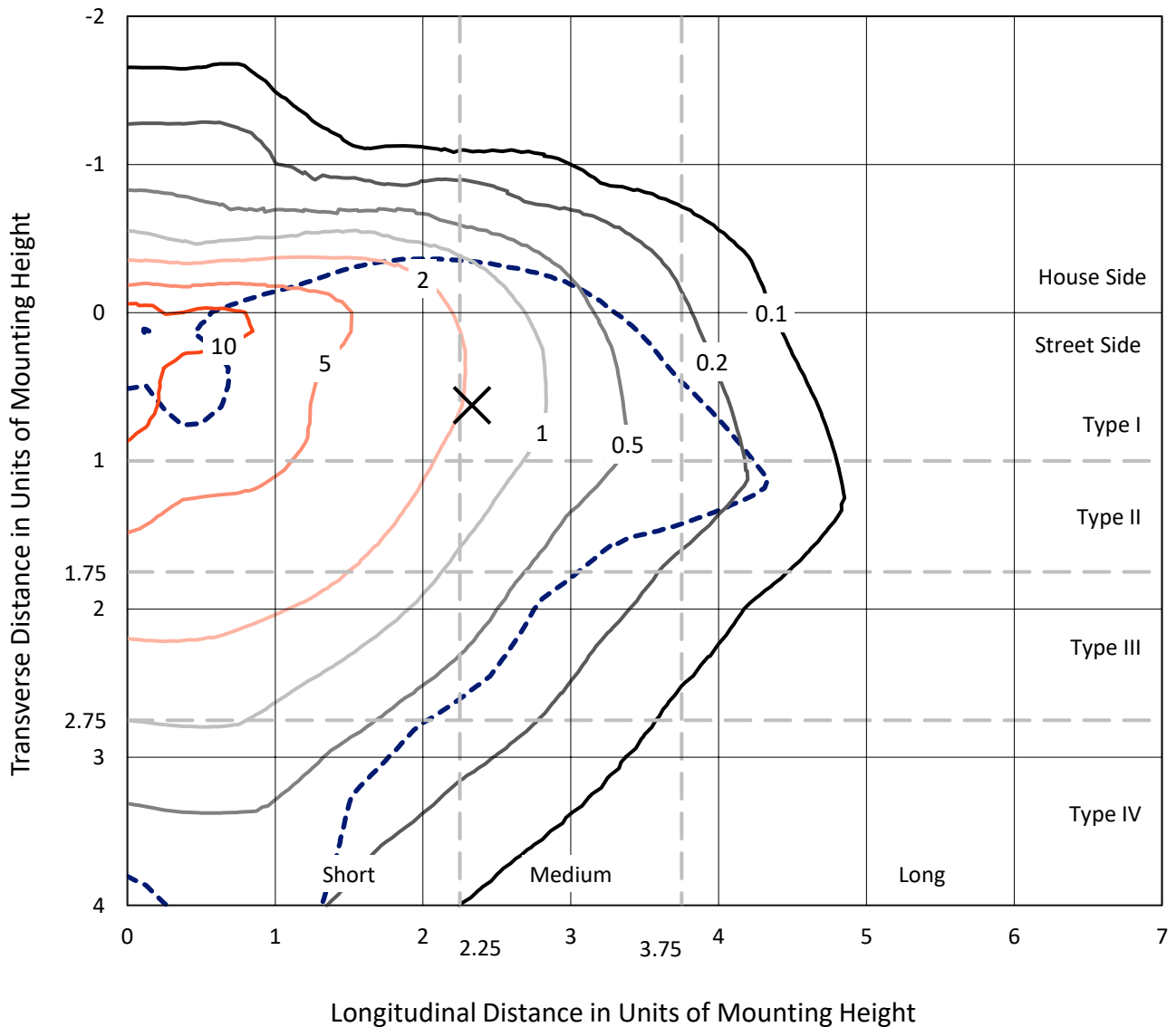
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

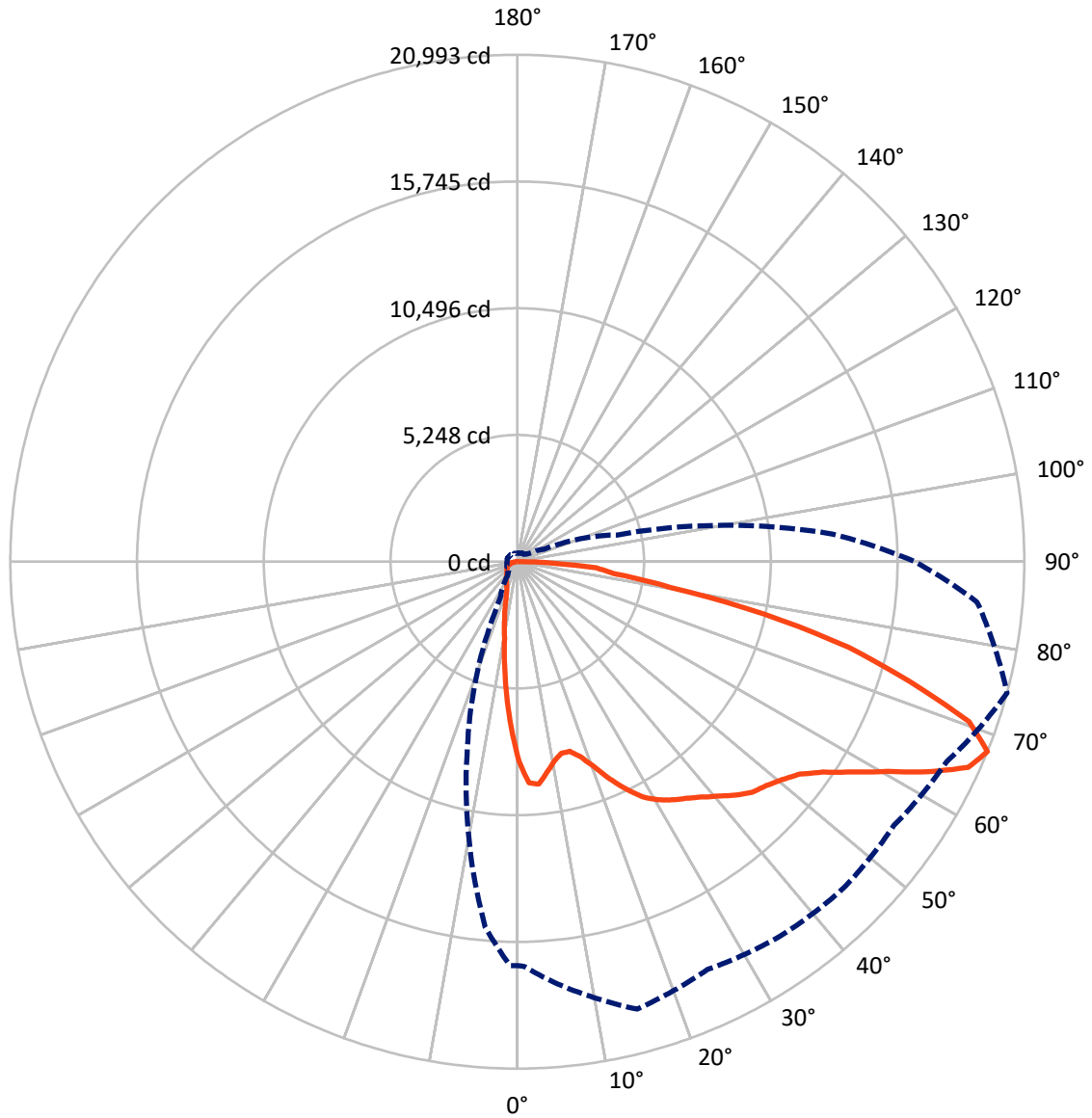
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4477.0	0.0	4477.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	22011.0	0.0	22011.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	26488.0	0.0	26488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.7	2.4
10°-20°	1309.0	4.9
20°-30°	1883.7	7.1
30°-40°	2713.1	10.2
40°-50°	3811.1	14.4
50°-60°	5315.2	20.1
60°-70°	6319.4	23.9
70°-80°	3721.8	14.1
80°-90°	787.0	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°	26488.0	100.0
0°-180°	26488.0	100.0

Coefficient of Utilization



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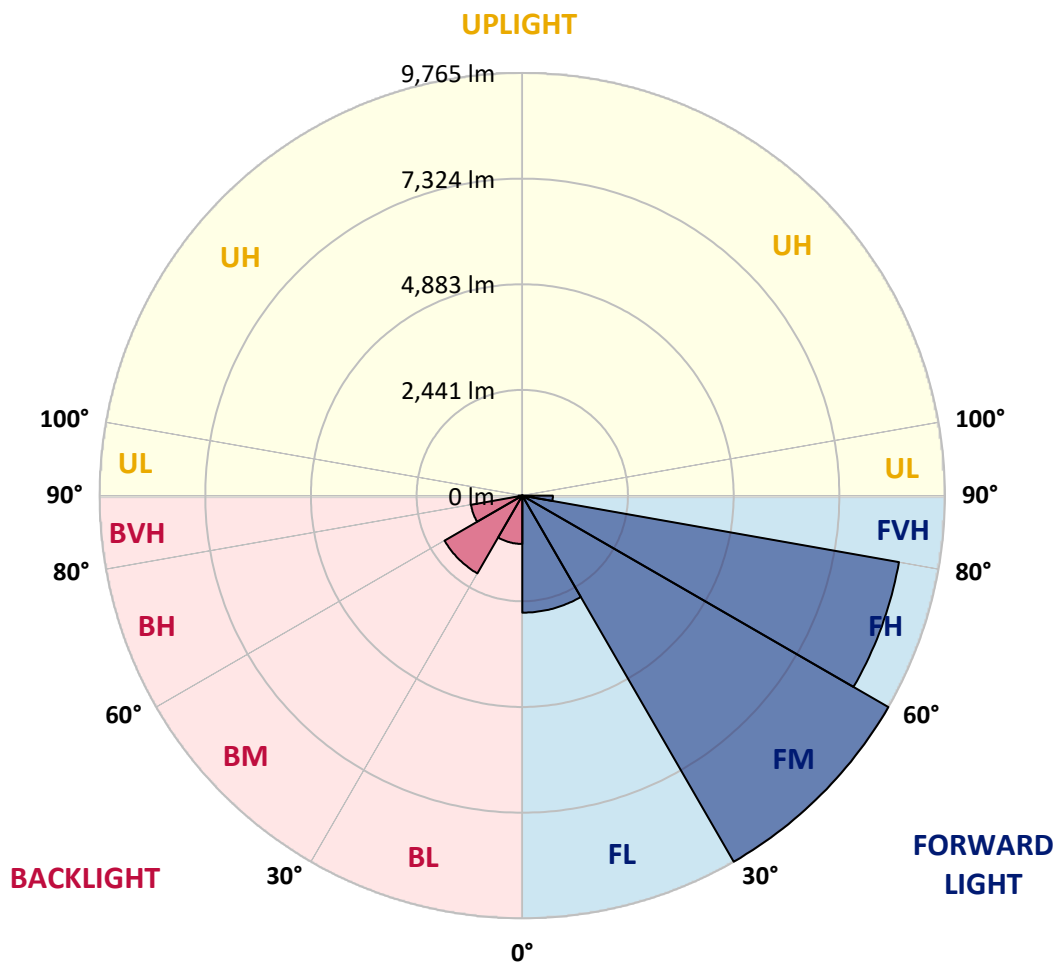
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2703.7	10.2			
FM	(30°-60°)	9765.1	36.9			
FH	(60°-80°)	8836.5	33.4			G4/12000
FVH	(80°-90°)	705.6	2.7			G4/750
BL	(0°-30°)	1116.7	4.2	B3/2500		
BM	(30°-60°)	2074.2	7.8	B2/2500		
BH	(60°-80°)	1204.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	81.4	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°	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5
2.5°	8922.6	8934.5	9011.0	9233.5	9386.3	9442.4	9481.5	9408.4	9337.1	9163.8	8902.3
5°	8895.5	8965.1	9163.8	9663.2	10057.3	10227.1	10278.1	10059.0	9697.2	9252.2	8717.1
7.5°	8375.7	8469.1	8774.9	9612.3	10307.0	10704.4	10651.8	10256.0	9603.8	8810.5	8063.2
10°	7759.1	7862.7	8231.3	9243.7	10138.8	10685.8	10685.8	10203.4	9337.1	8394.4	7533.2
12.5°	7269.9	7378.6	7799.9	8864.9	9788.9	10307.0	10393.6	9979.2	9145.2	8131.1	7185.0
15°	7108.6	7213.9	7667.4	8635.6	9418.6	9734.6	9763.4	9627.5	9051.7	8149.8	7169.7
17.5°	7309.0	7444.9	7903.5	8703.5	9078.9	9097.6	9119.7	9226.7	9061.9	8491.2	7478.8
20°	7888.2	8034.3	8513.3	8922.6	8781.7	8588.0	8599.9	8875.1	9182.5	9055.1	8217.7
22.5°	8723.9	8851.3	9342.2	9308.2	8656.0	8256.8	8173.6	8557.4	9360.9	9758.3	9004.2
25°	9625.8	9775.3	10339.3	9880.6	8691.6	8059.8	8007.1	8370.6	9546.0	10415.7	9912.9
27.5°	10658.6	10804.7	11249.7	10458.2	8878.5	8044.5	7981.6	8353.6	9712.5	11023.8	10780.9
30°	11426.3	11560.5	11862.9	10943.9	9107.8	8146.4	8068.3	8487.8	9855.2	11439.9	11626.8
32.5°	12029.3	12168.6	12333.4	11246.3	9410.1	8331.5	8187.2	8732.4	10042.0	11757.6	12253.6
35°	12657.8	12822.6	12810.7	11514.7	9692.1	8545.6	8404.6	9085.7	10335.9	12034.4	13048.5
37.5°	13454.4	13520.7	13435.8	11755.9	10030.1	8931.1	8853.0	9610.6	10753.7	12369.1	13977.6
40°	14263.0	14395.5	13958.9	12048.0	10441.2	9656.4	9647.9	10386.8	11249.7	12761.4	14877.9
42.5°	14956.0	15068.1	14448.1	12302.8	10938.9	10541.4	10605.9	11428.0	11900.2	13216.6	15601.5
45°	15477.5	15577.7	14899.9	12549.1	11594.5	11563.9	11944.4	12544.0	12720.7	13626.0	16026.1
47.5°	15920.8	16017.6	15214.2	12922.8	12404.7	12785.2	13447.7	13707.5	13422.2	13860.4	16501.7
50°	16294.5	16323.3	15429.9	13367.8	13410.3	14281.7	14923.7	15091.9	14115.2	14196.7	16914.5
52.5°	16683.4	16646.1	15801.9	13928.3	14497.4	15701.7	16168.8	16343.7	14779.3	14611.2	17515.7
55°	17554.8	17590.5	16635.9	14635.0	15596.4	17096.2	17711.1	17542.9	15514.8	15373.8	18280.1
57.5°	18607.9	18577.4	17809.6	15740.7	16715.7	18393.9	18852.5	18582.5	16496.6	16421.9	19054.7
60°	19017.3	19058.1	18791.4	16929.7	17819.8	19530.3	19999.1	19579.5	17673.7	17639.7	19639.0
62.5°	18606.2	18835.5	19015.6	17988.0	18760.8	20366.0	20831.4	20352.4	18901.8	19148.1	20048.3
65°	17787.5	17836.8	18450.0	18884.8	19214.3	20503.5	20746.4	20491.7	19927.7	20522.2	20029.6
67.5°	16724.2	16766.7	17485.2	19178.7	18630.0	18940.9	19110.7	19036.0	19610.1	20992.7	19107.3
70°	15711.9	15677.9	16437.2	18429.6	16218.0	15745.8	15886.8	15652.4	16921.2	19842.8	17298.3
72.5°	13741.5	13863.8	14679.1	16347.1	12841.3	12073.5	12380.9	11774.6	13014.5	16994.3	14040.5
75°	10763.9	10792.8	12153.3	13719.4	9687.0	8475.9	8892.1	8639.0	9969.0	14176.3	9695.5
77.5°	7453.4	7388.8	8851.3	10478.5	6908.1	6204.9	6211.7	6091.1	6960.8	10437.8	6587.1
80°	4733.9	4635.4	5540.8	6473.3	4747.5	5078.8	4912.3	4907.2	4531.8	6439.3	3983.2
82.5°	2558.1	2666.8	3500.8	4057.9	3405.7	3925.4	3597.6	3492.3	3110.1	4030.7	2547.9
85°	1165.2	1267.1	1866.7	2760.2	2586.9	2615.8	1747.8	2062.1	2573.3	3273.2	1360.6
87.5°	113.8	146.1	385.6	1302.8	883.3	696.4	259.9	501.1	647.2	1163.5	108.7
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°	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5
2.5°	8795.2	8706.9	8406.3	8158.3	7895.0	7694.6	7433.0	7258.0	7137.4	6955.7	6933.6
5°	8391.0	8175.3	7652.1	7118.7	6658.4	6311.9	5960.3	5637.6	5447.3	5387.9	5311.5
7.5°	7709.9	7346.4	6673.7	6062.2	5534.0	5017.6	4620.1	4338.2	4149.6	4039.2	3906.7
10°	7149.3	6728.1	5909.4	5160.3	4725.4	4404.4	4054.5	3752.2	3519.5	3320.7	3212.0
12.5°	6772.2	6296.6	5376.0	4767.9	4431.6	4090.2	3680.8	3341.1	2998.0	2772.1	2675.3
15°	6658.4	6155.7	5211.2	4572.6	4090.2	3643.5	3184.8	2741.5	2401.8	2187.8	2116.4
17.5°	6937.0	6328.9	5209.5	4312.7	3689.3	3156.0	2568.3	2152.1	1803.9	1644.2	1593.3
20°	7456.8	6661.8	5224.8	4056.2	3254.5	2503.7	1868.4	1527.0	1360.6	1292.6	1267.1
22.5°	8182.1	7169.7	5270.7	3803.1	2778.9	1922.8	1399.6	1226.4	1166.9	1155.0	1149.9
25°	9075.5	7798.2	5425.3	3575.5	2378.0	1467.6	1170.3	1092.2	1058.2	1046.3	1044.6
27.5°	9897.6	8610.1	5612.1	3380.2	1990.7	1265.4	1058.2	992.0	958.0	956.3	959.7
30°	10639.9	9289.5	5768.4	3161.1	1696.9	1124.5	985.2	918.9	886.7	885.0	895.2
32.5°	11282.0	9848.4	5883.9	2945.3	1533.8	1037.8	918.9	847.6	820.4	815.3	820.4
35°	11968.2	10405.5	5831.2	2777.2	1440.4	966.5	869.7	800.0	767.8	752.5	752.5
37.5°	12751.2	10979.6	5741.2	2637.9	1397.9	907.0	827.2	759.3	727.0	711.7	710.0
40°	13605.6	11553.7	5617.2	2513.9	1355.5	871.4	798.3	727.0	687.9	672.6	669.2
42.5°	14359.8	12044.6	5515.3	2432.4	1285.8	878.2	772.9	703.2	654.0	633.6	631.9
45°	15015.4	12538.9	5496.6	2384.8	1228.1	868.0	766.1	684.5	626.8	604.7	601.3
47.5°	15528.4	13053.6	5603.6	2357.6	1165.2	813.6	810.2	672.6	603.0	579.2	575.8
50°	16153.5	13784.0	5848.2	2301.6	1107.5	762.7	856.1	670.9	584.3	553.7	545.2
52.5°	16985.8	14735.2	6179.4	2201.4	1024.2	715.1	817.0	670.9	562.2	531.7	521.5
55°	18244.4	15948.0	6503.9	2060.4	907.0	652.3	737.2	650.6	530.0	502.8	496.0
57.5°	19078.4	16834.6	6711.1	1865.0	761.0	606.4	635.3	618.3	497.7	468.8	468.8
60°	19120.9	17072.4	6612.6	1618.7	669.2	563.9	552.0	623.4	468.8	438.2	434.8
62.5°	18631.7	16489.8	6099.6	1397.9	620.0	518.1	499.4	546.9	439.9	409.4	404.3
65°	17867.4	15003.6	5209.5	1292.6	592.8	477.3	450.1	448.4	409.4	380.5	373.7
67.5°	16462.6	13111.3	4280.4	1231.5	579.2	431.4	406.0	397.5	373.7	349.9	346.5
70°	14392.1	10981.3	3432.8	1206.0	572.4	383.9	363.5	353.3	332.9	314.2	312.5
72.5°	11197.0	8907.3	2833.2	1189.0	569.0	339.7	317.6	304.0	292.2	275.2	275.2
75°	8042.8	6553.1	2162.3	1071.8	526.6	292.2	268.4	259.9	242.9	229.3	232.7
77.5°	5070.3	4412.9	1423.4	788.1	407.7	234.4	214.0	208.9	195.3	176.7	188.5
80°	3424.3	3103.3	830.6	496.0	256.5	171.6	164.8	163.1	147.8	127.4	129.1
82.5°	2330.5	2286.3	431.4	282.0	147.8	100.2	96.8	100.2	83.2	67.9	67.9
85°	910.4	1243.4	203.8	110.4	47.6	15.3	22.1	23.8	13.6	6.8	8.5
87.5°	17.0	127.4	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°	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5
2.5°	6899.6	6884.3	6909.8	6801.1	6823.2	6864.0	6884.3	6896.2	7064.4	7025.3	7132.3
5°	5382.8	5367.5	5466.0	5479.6	5530.6	5520.4	5569.6	5581.5	5642.7	5664.8	5814.2
7.5°	3915.2	3981.5	4093.6	4151.3	4238.0	4265.1	4239.7	4302.5	4175.1	4266.8	4294.0
10°	3145.8	3065.9	3018.4	3150.9	3167.9	3293.5	3242.6	3201.8	3276.6	3280.0	3351.3
12.5°	2619.2	2447.7	2333.8	2371.2	2412.0	2466.3	2474.8	2556.4	2610.7	2661.7	2704.1
15°	2053.6	1994.1	1890.5	1839.6	1897.3	1919.4	1972.1	2040.0	2097.7	2113.0	2170.8
17.5°	1576.3	1586.5	1569.5	1538.9	1574.6	1591.6	1595.0	1596.7	1612.0	1601.8	1686.7
20°	1268.8	1304.5	1347.0	1353.8	1365.7	1374.2	1358.9	1301.1	1302.8	1338.5	1365.7
22.5°	1148.2	1155.0	1202.6	1217.9	1255.3	1240.0	1195.8	1168.6	1165.2	1173.7	1187.3
25°	1053.1	1063.3	1097.3	1121.1	1149.9	1122.8	1090.5	1065.0	1061.6	1070.1	1083.7
27.5°	968.2	983.5	1014.1	1037.8	1065.0	1039.5	1009.0	986.9	985.2	983.5	992.0
30°	900.2	917.2	939.3	966.5	985.2	963.1	934.2	922.3	920.6	917.2	920.6
32.5°	832.3	859.5	881.6	895.2	913.8	896.8	874.8	868.0	856.1	845.9	840.8
35°	755.9	784.7	818.7	835.7	854.4	837.4	822.1	793.2	772.9	771.2	774.6
37.5°	711.7	723.6	750.8	779.6	798.3	789.8	761.0	732.1	727.0	727.0	730.4
40°	672.6	677.7	689.6	727.0	761.0	735.5	699.8	691.3	691.3	689.6	691.3
42.5°	633.6	638.7	638.7	667.5	721.9	681.1	654.0	654.0	654.0	655.7	660.7
45°	597.9	599.6	597.9	618.3	669.2	635.3	616.6	621.7	625.1	628.5	631.9
47.5°	567.3	569.0	567.3	584.3	609.8	596.2	586.0	592.8	599.6	604.7	608.1
50°	540.1	538.4	541.8	552.0	563.9	567.3	560.5	570.7	574.1	580.9	589.4
52.5°	516.4	514.7	518.1	523.2	540.1	540.1	540.1	548.6	555.4	562.2	574.1
55°	489.2	490.9	496.0	502.8	524.9	521.5	523.2	530.0	536.8	546.9	553.7
57.5°	463.7	467.1	473.9	484.1	506.2	504.5	506.2	509.6	518.1	523.2	530.0
60°	434.8	441.6	450.1	456.9	479.0	477.3	485.8	492.6	497.7	497.7	501.1
62.5°	406.0	416.2	424.6	429.7	453.5	455.2	467.1	472.2	475.6	472.2	477.3
65°	377.1	392.4	395.8	402.6	426.3	428.0	441.6	453.5	450.1	446.7	455.2
67.5°	348.2	366.9	365.2	373.7	397.5	400.9	412.8	433.1	426.3	422.9	429.7
70°	315.9	329.5	331.2	336.3	368.6	363.5	382.2	400.9	395.8	397.5	397.5
72.5°	280.3	292.2	292.2	302.3	336.3	327.8	343.1	363.5	363.5	361.8	361.8
75°	237.8	244.6	251.4	266.7	302.3	292.2	302.3	321.0	324.4	321.0	321.0
77.5°	191.9	202.1	205.5	225.9	251.4	249.7	259.9	268.4	275.2	271.8	271.8
80°	135.9	146.1	159.7	181.7	197.0	202.1	207.2	214.0	217.4	217.4	220.8
82.5°	76.4	91.7	103.6	125.7	132.5	158.0	156.3	161.4	156.3	137.6	152.9
85°	17.0	32.3	45.9	57.8	66.2	91.7	96.8	108.7	90.0	83.2	83.2
87.5°	0.0	0.0	0.0	0.0	0.0	13.6	27.2	37.4	32.3	27.2	27.2
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°	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5	8275.5
2.5°	7222.4	7370.1	7548.5	7855.9	8071.6	8304.4	8538.8	8788.4	8854.7	8922.6
5°	5855.0	6145.5	6303.4	6716.2	7149.3	7699.7	8149.8	8642.4	8847.9	8895.5
7.5°	4435.0	4632.0	5046.5	5464.3	6001.1	6578.6	7268.2	8036.0	8275.5	8375.7
10°	3516.1	3784.4	4147.9	4596.4	5066.9	5688.5	6466.5	7363.3	7703.1	7759.1
12.5°	2992.9	3291.8	3687.6	4161.5	4606.5	5075.4	5860.1	6785.8	7149.3	7269.9
15°	2393.3	2755.1	3212.0	3711.4	4195.5	4708.5	5503.4	6548.0	6967.6	7108.6
17.5°	1880.3	2172.5	2666.8	3208.6	3782.7	4431.6	5428.7	6661.8	7178.2	7309.0
20°	1438.7	1647.6	2063.8	2636.2	3308.8	4158.1	5447.3	7091.6	7709.9	7888.2
22.5°	1243.4	1350.4	1603.5	2148.7	2901.2	3920.3	5523.8	7681.0	8426.7	8723.9
25°	1126.2	1182.2	1324.9	1681.6	2512.2	3689.3	5698.7	8474.2	9428.8	9625.8
27.5°	1025.9	1066.7	1155.0	1411.5	2158.9	3475.3	5902.6	9354.1	10364.7	10658.6
30°	930.8	985.2	1068.4	1253.6	1933.0	3280.0	6159.0	10067.5	11152.9	11426.3
32.5°	857.8	912.1	988.6	1143.1	1741.0	3074.4	6311.9	10694.3	11796.6	12029.3
35°	798.3	844.2	924.0	1054.8	1595.0	2918.2	6281.3	11191.9	12420.0	12657.8
37.5°	755.9	794.9	874.8	971.6	1484.6	2755.1	6266.1	11849.3	13179.3	13454.4
40°	716.8	757.6	830.6	917.2	1374.2	2563.2	6274.6	12501.5	13987.8	14263.0
42.5°	686.2	732.1	791.5	901.9	1260.3	2408.6	6274.6	13068.9	14691.0	14956.0
45°	660.7	710.0	767.8	900.2	1170.3	2291.4	6232.1	13556.4	15251.5	15477.5
47.5°	638.7	693.0	776.3	869.7	1148.2	2206.5	6194.7	13947.0	15708.5	15920.8
50°	623.4	687.9	825.5	834.0	1155.0	2181.0	6374.8	14439.6	16111.0	16294.5
52.5°	611.5	689.6	823.8	781.3	1143.1	2198.0	6750.2	15209.1	16669.9	16683.4
55°	587.7	687.9	781.3	721.9	1093.9	2226.8	7232.6	16326.7	17544.6	17554.8
57.5°	563.9	669.2	725.3	670.9	993.7	2226.8	7813.5	17385.0	18599.4	18607.9
60°	540.1	696.4	637.0	626.8	862.9	2186.1	8426.7	17850.4	18930.7	19017.3
62.5°	516.4	701.5	569.0	587.7	767.8	2087.6	8883.6	17335.7	18482.2	18606.2
65°	489.2	565.6	524.9	546.9	718.5	1922.8	8739.2	16393.0	17639.7	17787.5
67.5°	456.9	479.0	477.3	504.5	701.5	1679.9	7978.2	15200.6	16732.7	16724.2
70°	417.9	429.7	434.8	463.7	669.2	1491.4	6648.2	13653.2	15521.6	15711.9
72.5°	377.1	387.3	392.4	417.9	637.0	1384.3	5160.3	11521.5	13444.3	13741.5
75°	332.9	339.7	346.5	368.6	603.0	1226.4	3675.7	8795.2	10296.8	10763.9
77.5°	287.1	287.1	295.6	317.6	507.9	1012.4	2466.3	6169.2	6976.1	7453.4
80°	232.7	234.4	231.0	254.8	373.7	693.0	1401.3	4120.8	4642.2	4733.9
82.5°	178.4	173.3	175.0	186.8	278.6	472.2	747.4	2559.8	2609.0	2558.1
85°	112.1	112.1	108.7	122.3	178.4	246.3	407.7	1567.8	1224.7	1165.2
87.5°	45.9	37.4	42.5	49.3	84.9	100.2	159.7	322.7	124.0	113.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)