

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: P456003

Luminaire Tested: **GALN-SA7B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456003
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-SA7B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 28571 lumens
Efficiency: N/A
Efficacy: 99.9 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

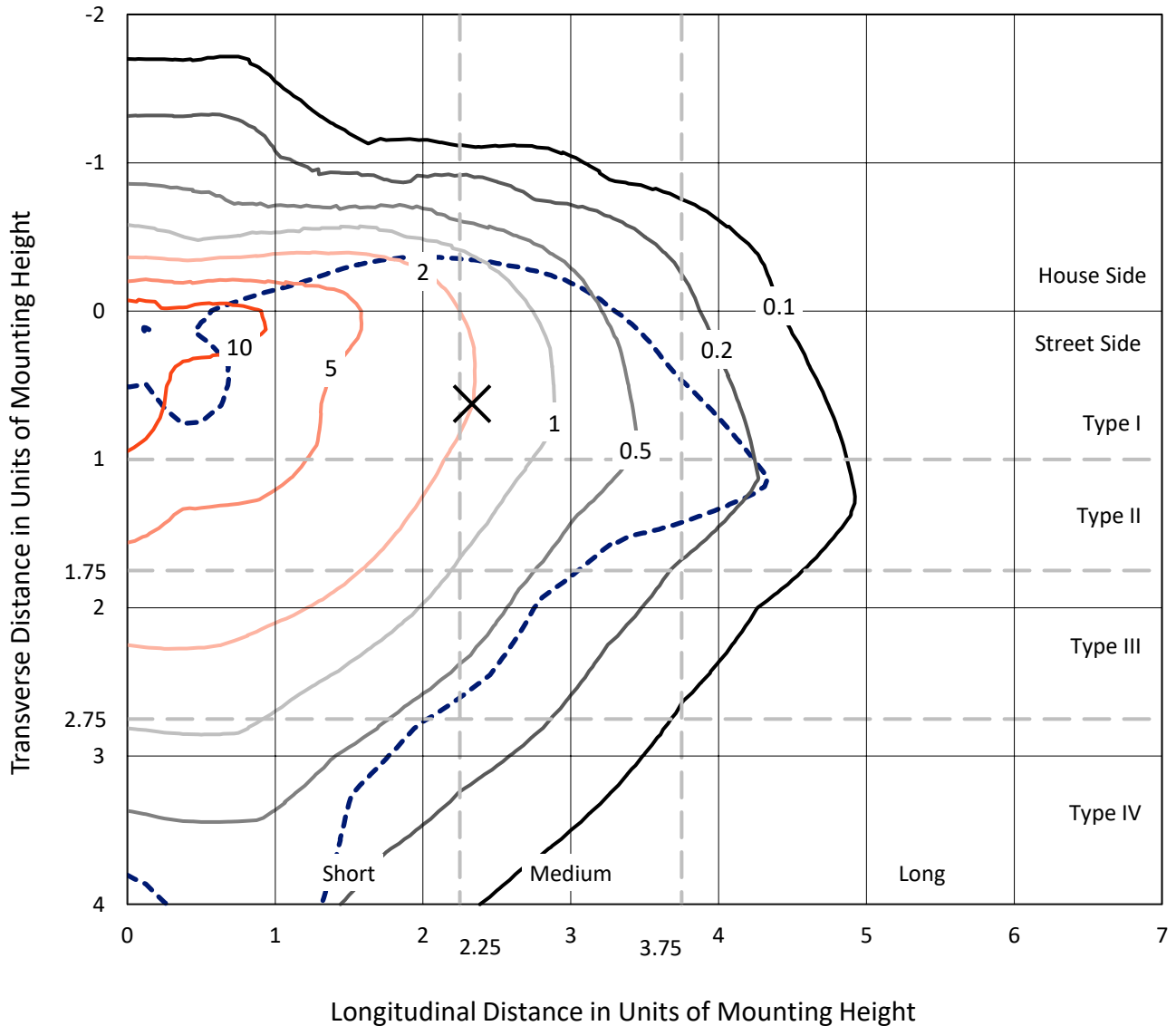
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

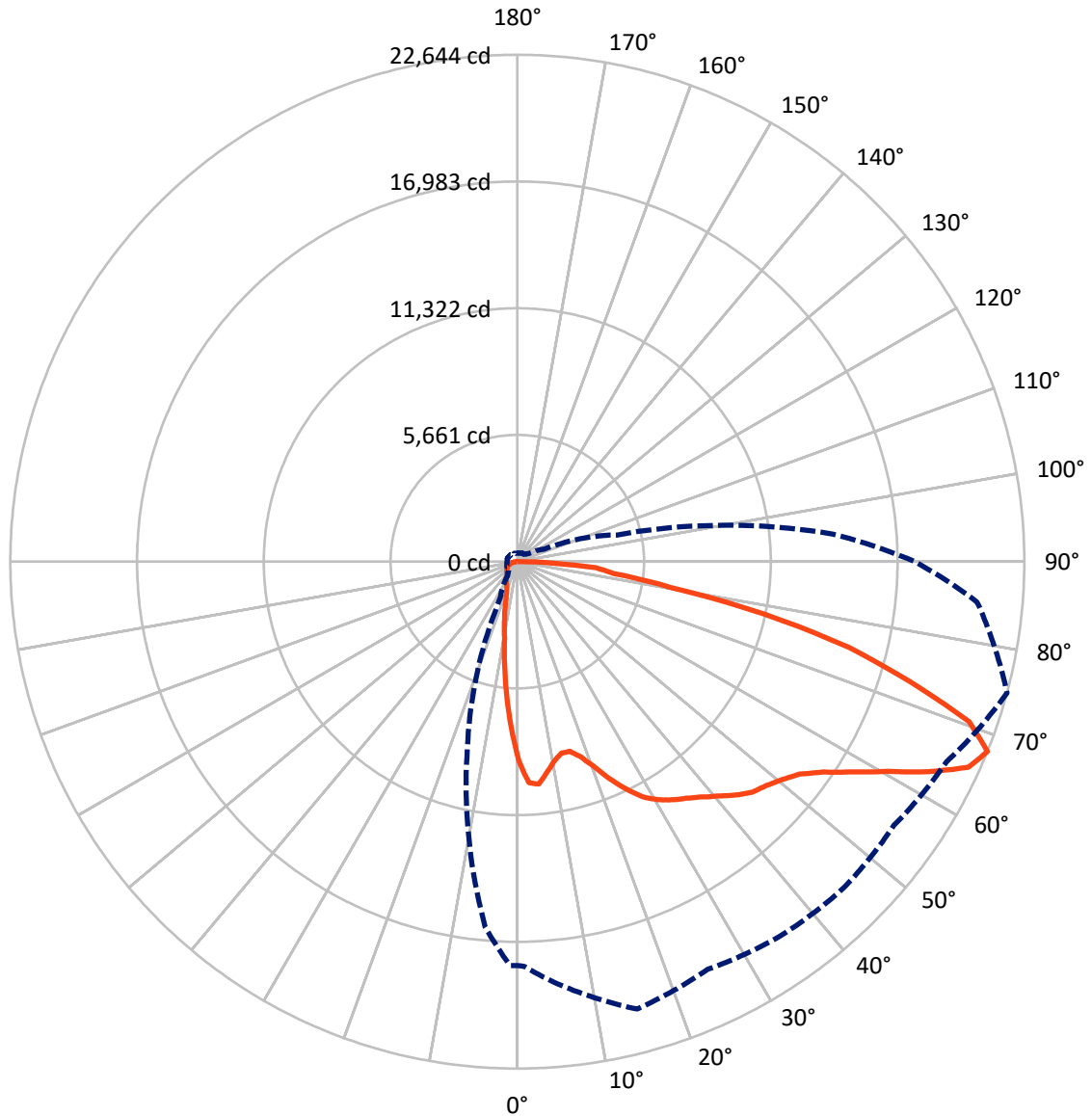
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	4829.1	0.0	4829.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	23741.9	0.0	23741.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	28571.0	0.0	28571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.0	2.4
10°-20°	1412.0	4.9
20°-30°	2031.9	7.1
30°-40°	2926.4	10.2
40°-50°	4110.8	14.4
50°-60°	5733.2	20.1
60°-70°	6816.4	23.9
70°-80°	4014.5	14.1
80°-90°	848.9	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°	28571.0	100.0
0°-180°	28571.0	100.0

Coefficient of Utilization



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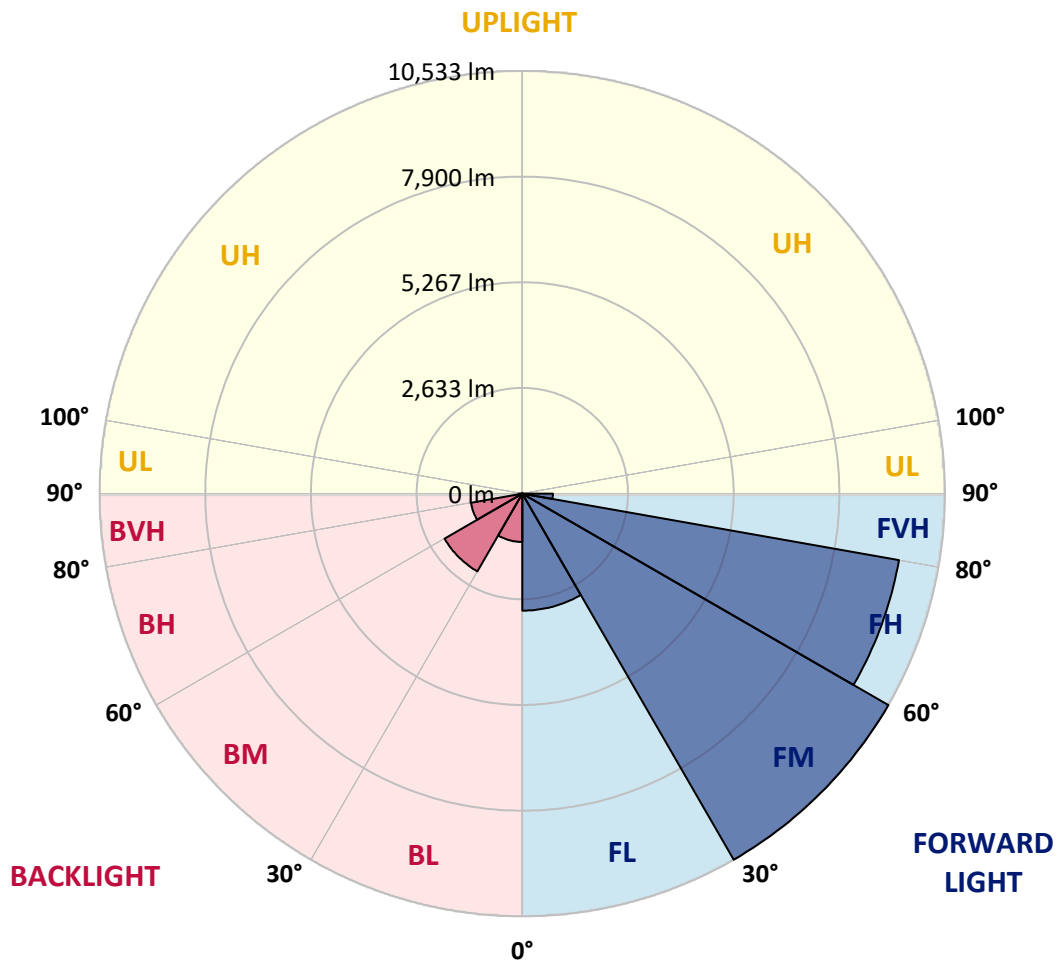
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2916.3	10.2			
FM	(30°-60°)	10533.1	36.9			
FH	(60°-80°)	9531.4	33.4			G4/12000
FVH	(80°-90°)	761.1	2.7			G5
BL	(0°-30°)	1204.5	4.2	B3/2500		
BM	(30°-60°)	2237.3	7.8	B2/2500		
BH	(60°-80°)	1299.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	87.8	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3
2.5°	9624.3	9637.1	9719.6	9959.6	10124.5	10184.9	10227.1	10148.3	10071.4	9884.5	9602.3
5°	9595.0	9670.1	9884.5	10423.1	10848.2	11031.4	11086.4	10850.0	10459.8	9979.7	9402.6
7.5°	9034.4	9135.1	9464.9	10368.2	11117.5	11546.2	11489.4	11062.5	10359.0	9503.4	8697.2
10°	8369.3	8481.0	8878.6	9970.6	10936.1	11526.1	11526.1	11005.8	10071.4	9054.5	8125.6
12.5°	7841.6	7958.9	8413.3	9562.0	10558.7	11117.5	11211.0	10763.9	9864.3	8770.5	7750.0
15°	7667.6	7781.2	8270.3	9314.7	10159.3	10500.1	10531.2	10384.7	9763.6	8790.7	7733.5
17.5°	7883.8	8030.3	8525.0	9388.0	9792.9	9813.0	9836.8	9952.3	9774.5	9158.9	8067.0
20°	8508.5	8666.1	9182.8	9624.3	9472.2	9263.4	9276.2	9573.0	9904.6	9767.2	8864.0
22.5°	9409.9	9547.4	10076.8	10040.2	9336.7	8906.1	8816.3	9230.4	10097.0	10525.7	9712.3
25°	10382.8	10544.0	11152.3	10657.6	9375.1	8693.6	8636.8	9028.9	10296.7	11234.8	10692.5
27.5°	11496.8	11654.3	12134.4	11280.6	9576.7	8677.1	8609.3	9010.5	10476.3	11890.7	11628.7
30°	12324.9	12469.6	12795.8	11804.6	9824.0	8787.0	8702.7	9155.3	10630.2	12339.6	12541.1
32.5°	12975.3	13125.6	13303.3	12130.7	10150.1	8986.7	8831.0	9419.1	10831.7	12682.2	13217.2
35°	13653.2	13830.9	13818.1	12420.2	10454.3	9217.6	9065.5	9800.2	11148.7	12980.8	14074.6
37.5°	14512.5	14583.9	14492.3	12680.3	10818.9	9633.5	9549.2	10366.3	11599.4	13341.7	15076.8
40°	15384.6	15527.5	15056.6	12995.5	11262.3	10415.8	10406.6	11203.6	12134.4	13765.0	16047.8
42.5°	16132.1	16253.0	15584.3	13270.3	11799.1	11370.4	11440.0	12326.7	12836.1	14256.0	16828.3
45°	16694.6	16802.7	16071.7	13536.0	12506.3	12473.3	12883.7	13530.5	13721.0	14697.5	17286.4
47.5°	17172.8	17277.2	16410.6	13939.0	13380.2	13790.6	14505.2	14785.5	14477.7	14950.4	17799.4
50°	17575.9	17607.0	16643.3	14419.1	14464.9	15404.8	16097.3	16278.7	15225.2	15313.1	18244.6
52.5°	17995.4	17955.1	17044.5	15023.7	15637.4	16936.4	17440.3	17629.0	15941.6	15760.2	18893.2
55°	18935.3	18973.8	17944.1	15785.8	16822.8	18440.6	19103.9	18922.5	16734.9	16582.8	19717.6
57.5°	20071.3	20038.3	19210.1	16978.6	18030.2	19840.4	20335.1	20043.8	17793.9	17713.3	20553.1
60°	20512.8	20556.8	20269.1	18261.1	19221.1	21066.1	21571.8	21119.2	19063.6	19026.9	21183.4
62.5°	20069.4	20316.8	20511.0	19402.5	20236.1	21967.5	22469.5	21952.9	20388.2	20653.9	21624.9
65°	19186.3	19239.5	19900.9	20369.9	20725.3	22115.9	22377.9	22103.1	21494.8	22136.1	21604.8
67.5°	18039.4	18085.2	18860.2	20686.9	20095.1	20430.4	20613.6	20533.0	21152.2	22643.6	20609.9
70°	16947.4	16910.8	17729.8	19878.9	17493.4	16984.1	17136.1	16883.3	18251.9	21403.2	18658.7
72.5°	14822.1	14954.0	15833.5	17632.7	13851.1	13023.0	13354.6	12700.5	14038.0	18330.7	15144.6
75°	11610.4	11641.5	13109.1	14798.3	10448.8	9142.5	9591.3	9318.3	10752.9	15291.2	10457.9
77.5°	8039.5	7969.9	9547.4	11302.6	7451.4	6692.9	6700.2	6570.1	7508.2	11258.6	7105.1
80°	5106.2	4999.9	5976.5	6982.3	5120.9	5478.1	5298.6	5293.1	4888.2	6945.7	4296.4
82.5°	2759.2	2876.5	3776.1	4377.0	3673.5	4234.1	3880.5	3766.9	3354.7	4347.7	2748.2
85°	1256.9	1366.8	2013.5	2977.3	2790.4	2821.5	1885.3	2224.2	2775.7	3530.6	1467.6
87.5°	122.8	157.6	415.9	1405.3	952.7	751.2	280.3	540.5	698.1	1255.0	117.3
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°	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3
2.5°	9486.9	9391.6	9067.3	8799.8	8515.9	8299.7	8017.5	7828.8	7698.7	7502.7	7478.9
5°	9050.8	8818.2	8253.9	7678.6	7182.0	6808.3	6429.0	6080.9	5875.7	5811.6	5729.1
7.5°	8316.1	7924.1	7198.5	6539.0	5969.2	5412.2	4983.5	4679.3	4476.0	4356.9	4214.0
10°	7711.5	7257.2	6374.1	5566.1	5097.1	4750.8	4373.4	4047.2	3796.2	3581.9	3464.6
12.5°	7304.8	6791.8	5798.8	5142.9	4780.1	4411.8	3970.3	3603.8	3233.8	2990.1	2885.6
15°	7182.0	6639.7	5621.0	4932.2	4411.8	3930.0	3435.3	2957.1	2590.7	2359.8	2282.9
17.5°	7482.5	6826.6	5619.2	4651.8	3979.4	3404.1	2770.2	2321.3	1945.7	1773.5	1718.6
20°	8043.2	7185.7	5635.7	4375.2	3510.4	2700.6	2015.4	1647.1	1467.6	1394.3	1366.8
22.5°	8825.5	7733.5	5685.2	4102.2	2997.4	2074.0	1509.7	1322.8	1258.7	1245.9	1240.4
25°	9789.2	8411.4	5851.9	3856.7	2565.0	1583.0	1262.4	1178.1	1141.4	1128.6	1126.8
27.5°	10676.0	9287.2	6053.4	3646.0	2147.3	1365.0	1141.4	1070.0	1033.3	1031.5	1035.2
30°	11476.6	10020.1	6222.0	3409.6	1830.3	1212.9	1062.6	991.2	956.4	954.6	965.5
32.5°	12169.2	10622.8	6346.6	3177.0	1654.4	1119.4	991.2	914.2	884.9	879.4	884.9
35°	12909.4	11223.8	6289.8	2995.6	1553.7	1042.5	938.1	862.9	828.1	811.6	811.6
37.5°	13754.0	11843.0	6192.7	2845.3	1507.9	978.4	892.3	819.0	784.2	767.7	765.8
40°	14675.6	12462.3	6058.9	2711.6	1462.1	939.9	861.1	784.2	742.0	725.5	721.9
42.5°	15489.0	12991.8	5949.0	2623.6	1386.9	947.2	833.6	758.5	705.4	683.4	681.6
45°	16196.2	13525.0	5928.9	2572.3	1324.6	936.2	826.3	738.4	676.1	652.2	648.6
47.5°	16749.6	14080.1	6044.3	2543.0	1256.9	877.6	873.9	725.5	650.4	624.8	621.1
50°	17423.8	14867.9	6308.1	2482.6	1194.6	822.6	923.4	723.7	630.3	597.3	588.1
52.5°	18321.5	15893.9	6665.4	2374.5	1104.8	771.3	881.3	723.7	606.4	573.5	562.5
55°	19679.2	17202.1	7015.3	2222.4	978.4	703.5	795.2	701.7	571.6	542.3	535.0
57.5°	20578.8	18158.5	7238.8	2011.7	820.8	654.1	685.2	666.9	536.8	505.7	505.7
60°	20624.6	18415.0	7132.6	1746.0	721.9	608.3	595.5	672.4	505.7	472.7	469.0
62.5°	20096.9	17786.6	6579.3	1507.9	668.7	558.8	538.7	590.0	474.5	441.5	436.1
65°	19272.4	16183.4	5619.2	1394.3	639.4	514.8	485.5	483.7	441.5	410.4	403.1
67.5°	17757.2	14142.4	4617.0	1328.3	624.8	465.4	437.9	428.7	403.1	377.4	373.8
70°	15523.8	11844.9	3702.8	1300.8	617.4	414.1	392.1	381.1	359.1	338.9	337.1
72.5°	12077.6	9607.8	3056.0	1282.5	613.8	366.4	342.6	328.0	315.1	296.8	296.8
75°	8675.3	7068.5	2332.3	1156.1	568.0	315.1	289.5	280.3	262.0	247.3	251.0
77.5°	5469.0	4759.9	1535.3	850.1	439.7	252.8	230.9	225.4	210.7	190.5	203.4
80°	3693.6	3347.3	895.9	535.0	276.7	185.0	177.7	175.9	159.4	137.4	139.2
82.5°	2513.7	2466.1	465.4	304.1	159.4	108.1	104.4	108.1	89.8	73.3	73.3
85°	982.0	1341.1	219.9	119.1	51.3	16.5	23.8	25.7	14.7	7.3	9.2
87.5°	18.3	137.4	5.5	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°	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3
2.5°	7442.2	7425.7	7453.2	7335.9	7359.8	7403.7	7425.7	7438.5	7619.9	7577.8	7693.2
5°	5806.1	5789.6	5895.9	5910.5	5965.5	5954.5	6007.6	6020.5	6086.4	6110.2	6271.5
7.5°	4223.1	4294.6	4415.5	4477.8	4571.2	4600.5	4573.1	4640.8	4503.4	4602.4	4631.7
10°	3393.2	3307.0	3255.7	3398.6	3417.0	3552.5	3497.6	3453.6	3534.2	3537.9	3614.8
12.5°	2825.2	2640.1	2517.4	2557.7	2601.7	2660.3	2669.4	2757.4	2816.0	2871.0	2916.8
15°	2215.1	2150.9	2039.2	1984.2	2046.5	2070.3	2127.1	2200.4	2262.7	2279.2	2341.5
17.5°	1700.2	1711.2	1692.9	1659.9	1698.4	1716.7	1720.4	1722.2	1738.7	1727.7	1819.3
20°	1368.6	1407.1	1452.9	1460.2	1473.1	1482.2	1465.7	1403.4	1405.3	1443.7	1473.1
22.5°	1238.5	1245.9	1297.2	1313.7	1354.0	1337.5	1289.8	1260.5	1256.9	1266.0	1280.7
25°	1135.9	1146.9	1183.6	1209.2	1240.4	1211.1	1176.2	1148.8	1145.1	1154.3	1168.9
27.5°	1044.3	1060.8	1093.8	1119.4	1148.8	1121.3	1088.3	1064.5	1062.6	1060.8	1070.0
30°	971.0	989.4	1013.2	1042.5	1062.6	1038.8	1007.7	994.9	993.0	989.4	993.0
32.5°	897.8	927.1	950.9	965.5	985.7	967.4	943.6	936.2	923.4	912.4	906.9
35°	815.3	846.5	883.1	901.4	921.6	903.3	886.8	855.6	833.6	831.8	835.5
37.5°	767.7	780.5	809.8	841.0	861.1	852.0	820.8	789.7	784.2	784.2	787.8
40°	725.5	731.0	743.9	784.2	820.8	793.3	754.8	745.7	745.7	743.9	745.7
42.5°	683.4	688.9	688.9	720.0	778.7	734.7	705.4	705.4	705.4	707.2	712.7
45°	644.9	646.8	644.9	666.9	721.9	685.2	665.1	670.6	674.2	677.9	681.6
47.5°	611.9	613.8	611.9	630.3	657.7	643.1	632.1	639.4	646.8	652.2	655.9
50°	582.6	580.8	584.5	595.5	608.3	611.9	604.6	615.6	619.3	626.6	635.8
52.5°	557.0	555.1	558.8	564.3	582.6	582.6	582.6	591.8	599.1	606.4	619.3
55°	527.7	529.5	535.0	542.3	566.1	562.5	564.3	571.6	579.0	590.0	597.3
57.5°	500.2	503.8	511.2	522.2	546.0	544.1	546.0	549.6	558.8	564.3	571.6
60°	469.0	476.4	485.5	492.8	516.7	514.8	524.0	531.3	536.8	536.8	540.5
62.5°	437.9	448.9	458.0	463.5	489.2	491.0	503.8	509.3	513.0	509.3	514.8
65°	406.7	423.2	426.9	434.2	459.9	461.7	476.4	489.2	485.5	481.9	491.0
67.5°	375.6	395.7	393.9	403.1	428.7	432.4	445.2	467.2	459.9	456.2	463.5
70°	340.8	355.4	357.3	362.8	397.6	392.1	412.2	432.4	426.9	428.7	428.7
72.5°	302.3	315.1	315.1	326.1	362.8	353.6	370.1	392.1	392.1	390.2	390.2
75°	256.5	263.8	271.2	287.6	326.1	315.1	326.1	346.3	349.9	346.3	346.3
77.5°	207.0	218.0	221.7	243.7	271.2	269.3	280.3	289.5	296.8	293.1	293.1
80°	146.6	157.6	172.2	196.0	212.5	218.0	223.5	230.9	234.5	234.5	238.2
82.5°	82.4	98.9	111.8	135.6	142.9	170.4	168.6	174.1	168.6	148.4	164.9
85°	18.3	34.8	49.5	62.3	71.5	98.9	104.4	117.3	97.1	89.8	89.8
87.5°	0.0	0.0	0.0	0.0	0.0	14.7	29.3	40.3	34.8	29.3	29.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3	8926.3
2.5°	7790.3	7949.7	8142.1	8473.7	8706.4	8957.4	9210.2	9479.6	9551.0	9624.3
5°	6315.4	6628.7	6799.1	7244.3	7711.5	8305.2	8790.7	9322.0	9543.7	9595.0
7.5°	4783.8	4996.3	5443.3	5894.0	6473.0	7095.9	7839.8	8667.9	8926.3	9034.4
10°	3792.6	4082.0	4474.1	4957.8	5465.3	6135.9	6975.0	7942.4	8308.8	8369.3
12.5°	3228.3	3550.7	3977.6	4488.8	4968.8	5474.5	6320.9	7319.5	7711.5	7841.6
15°	2581.5	2971.8	3464.6	4003.3	4525.4	5078.7	5936.2	7063.0	7515.5	7667.6
17.5°	2028.2	2343.3	2876.5	3460.9	4080.2	4780.1	5855.6	7185.7	7742.7	7883.8
20°	1551.8	1777.2	2226.1	2843.5	3569.0	4485.1	5875.7	7649.2	8316.1	8508.5
22.5°	1341.1	1456.6	1729.6	2317.7	3129.3	4228.6	5958.2	8285.0	9089.3	9409.9
25°	1214.7	1275.2	1429.1	1813.8	2709.8	3979.4	6146.9	9140.6	10170.3	10382.8
27.5°	1106.6	1150.6	1245.9	1522.5	2328.7	3748.6	6366.7	10089.7	11179.8	11496.8
30°	1004.0	1062.6	1152.4	1352.1	2085.0	3537.9	6643.4	10859.2	12029.9	12324.9
32.5°	925.2	983.9	1066.3	1233.0	1878.0	3316.2	6808.3	11535.2	12724.3	12975.3
35°	861.1	910.6	996.7	1137.8	1720.4	3147.6	6775.3	12072.1	13396.7	13653.2
37.5°	815.3	857.4	943.6	1048.0	1601.3	2971.8	6758.8	12781.1	14215.7	14512.5
40°	773.2	817.1	895.9	989.4	1482.2	2764.7	6768.0	13484.7	15087.8	15384.6
42.5°	740.2	789.7	853.8	972.9	1359.5	2598.0	6768.0	14096.6	15846.3	16132.1
45°	712.7	765.8	828.1	971.0	1262.4	2471.6	6722.2	14622.4	16450.9	16694.6
47.5°	688.9	747.5	837.3	938.1	1238.5	2380.0	6681.9	15043.8	16943.8	17172.8
50°	672.4	742.0	890.4	899.6	1245.9	2352.5	6876.1	15575.1	17378.0	17575.9
52.5°	659.6	743.9	888.6	842.8	1233.0	2370.8	7281.0	16405.1	17980.8	17995.4
55°	633.9	742.0	842.8	778.7	1179.9	2402.0	7801.3	17610.7	18924.3	18935.3
57.5°	608.3	721.9	782.3	723.7	1071.8	2402.0	8427.9	18752.1	20062.1	20071.3
60°	582.6	751.2	687.1	676.1	930.7	2358.0	9089.3	19254.1	20419.4	20512.8
62.5°	557.0	756.7	613.8	633.9	828.1	2251.7	9582.2	18699.0	19935.7	20069.4
65°	527.7	610.1	566.1	590.0	775.0	2074.0	9426.4	17682.1	19026.9	19186.3
67.5°	492.8	516.7	514.8	544.1	756.7	1812.0	8605.6	16396.0	18048.6	18039.4
70°	450.7	463.5	469.0	500.2	721.9	1608.6	7171.1	14726.9	16742.2	16947.4
72.5°	406.7	417.7	423.2	450.7	687.1	1493.2	5566.1	12427.5	14501.5	14822.1
75°	359.1	366.4	373.8	397.6	650.4	1322.8	3964.8	9486.9	11106.5	11610.4
77.5°	309.6	309.6	318.8	342.6	547.8	1092.0	2660.3	6654.4	7524.7	8039.5
80°	251.0	252.8	249.2	274.8	403.1	747.5	1511.5	4444.8	5007.3	5106.2
82.5°	192.4	186.9	188.7	201.5	300.5	509.3	806.1	2761.1	2814.2	2759.2
85°	120.9	120.9	117.3	131.9	192.4	265.7	439.7	1691.1	1321.0	1256.9
87.5°	49.5	40.3	45.8	53.1	91.6	108.1	172.2	348.1	133.7	122.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)