

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: P648048

Luminaire Tested: **GALN-SA7A-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24412.4 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

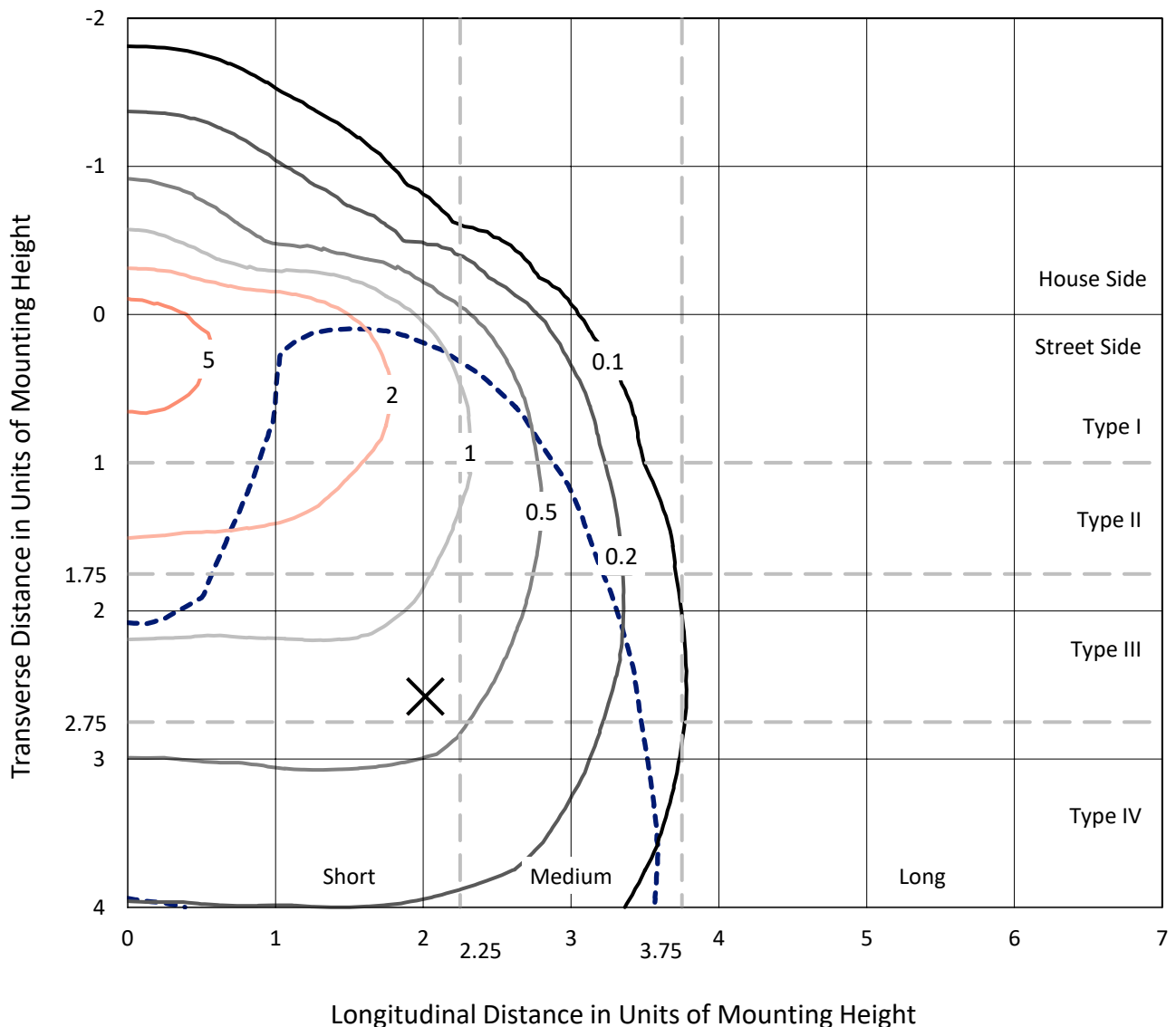
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

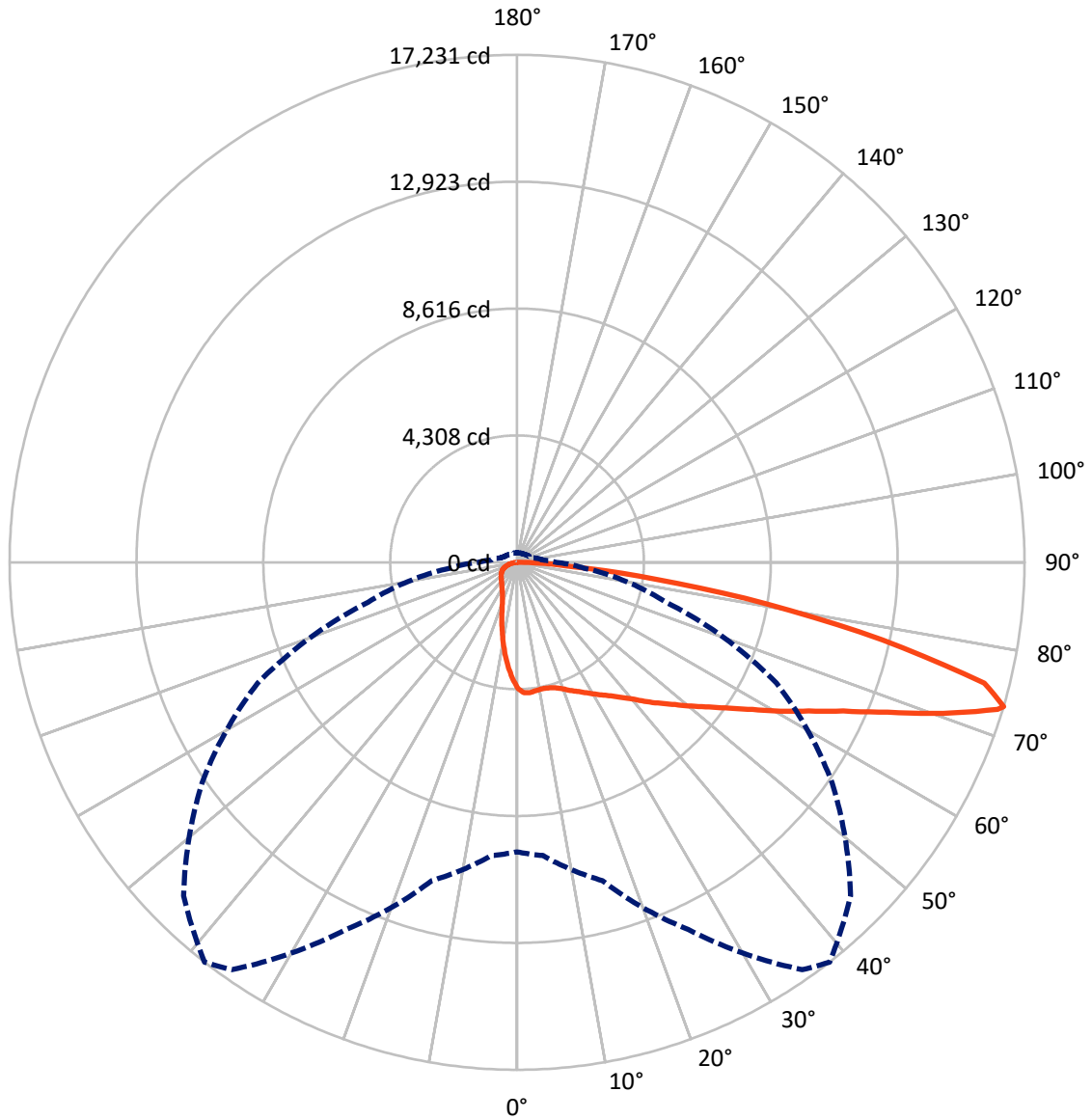
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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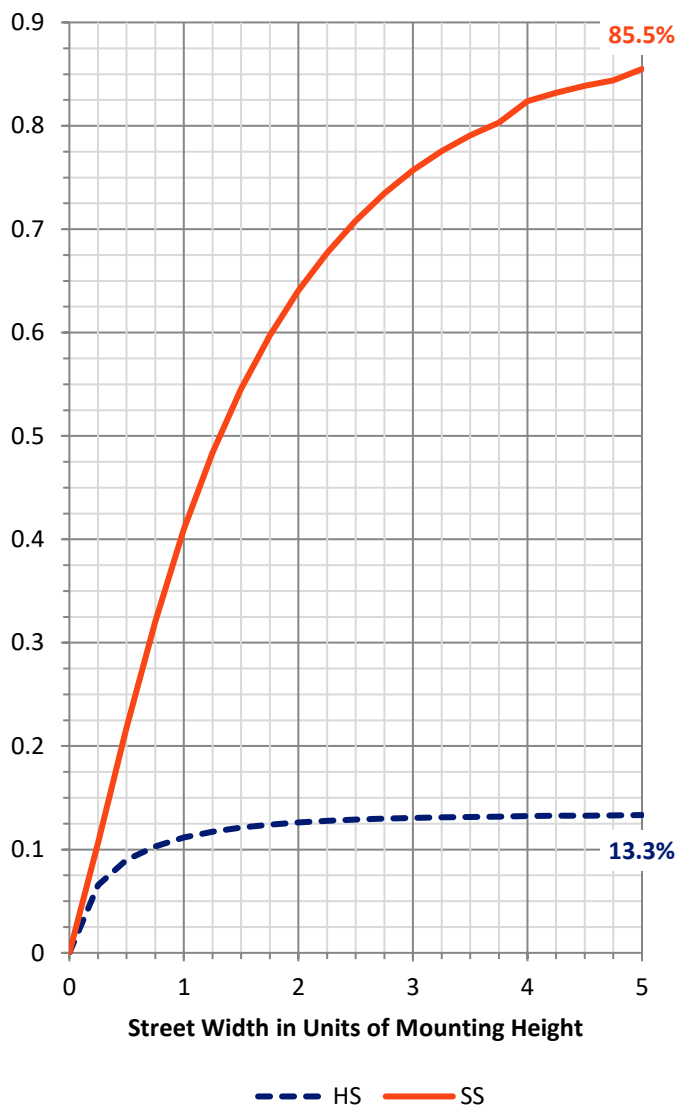
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3281.8	0.0	3281.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21130.6	0.0	21130.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	24412.4	0.0	24412.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	1.5
10°-20°	960.0	3.9
20°-30°	1494.9	6.1
30°-40°	2192.7	9.0
40°-50°	3252.6	13.3
50°-60°	4608.3	18.9
60°-70°	5845.8	23.9
70°-80°	4866.2	19.9
80°-90°	817.6	3.3
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°	24412.4	100.0
0°-180°	24412.4	100.0

Coefficient of Utilization

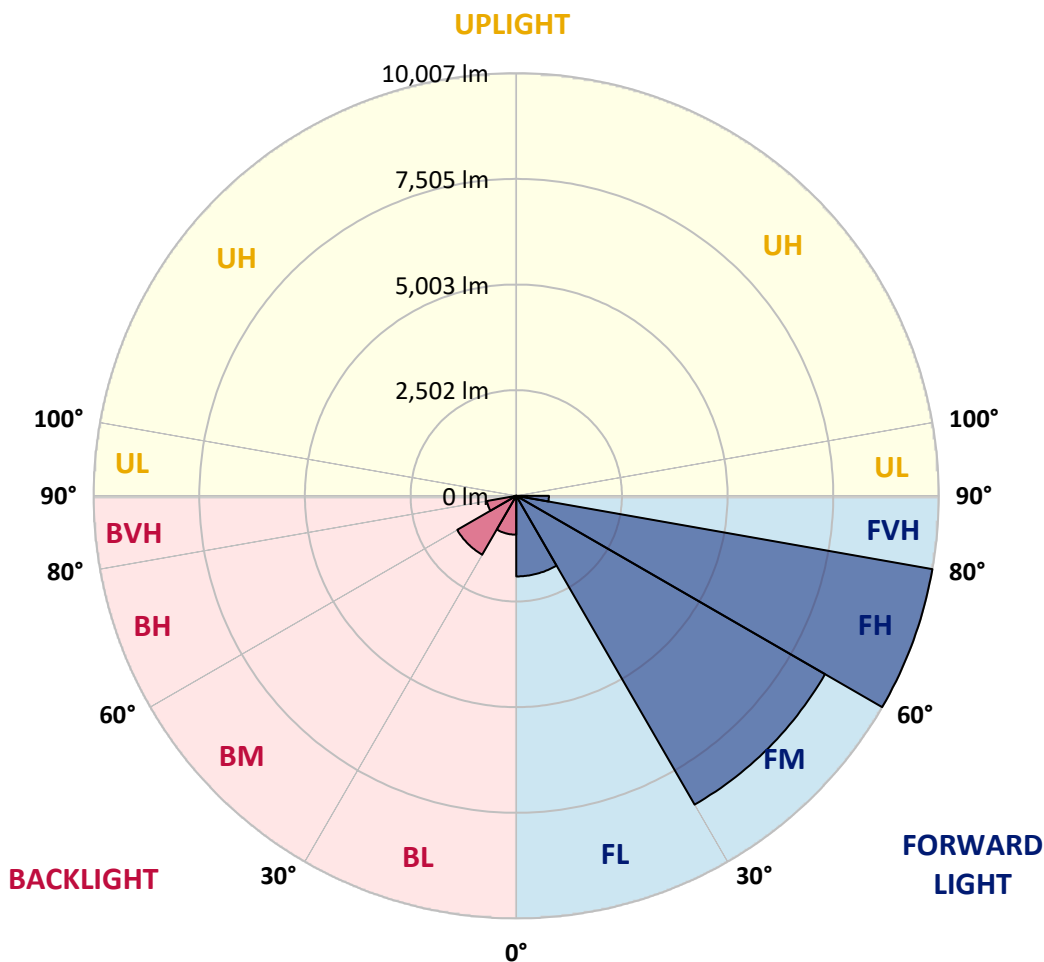


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.4	7.8			
FM (30°-60°)	8442.5	34.6			
FH (60°-80°)	10006.5	41.0			G4/12000
FVH (80°-90°)	773.3	3.2			G5
BL (0°-30°)	920.9	3.8	B2/1000		
BM (30°-60°)	1611.1	6.6	B2/2500		
BH (60°-80°)	705.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	44.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8
2.5°	4461.1	4483.2	4472.2	4457.0	4447.4	4437.7	4424.0	4383.9	4352.2	4317.8	4264.1
5°	4494.3	4508.0	4498.4	4479.1	4457.0	4447.4	4421.2	4368.8	4317.8	4259.9	4180.0
7.5°	4474.9	4480.5	4469.4	4446.0	4426.7	4408.8	4378.5	4320.5	4258.5	4188.2	4083.4
10°	4406.0	4426.7	4426.7	4407.4	4388.1	4378.5	4348.2	4293.0	4236.4	4156.5	4032.4
12.5°	4349.5	4371.6	4389.5	4383.9	4382.6	4382.6	4359.1	4317.8	4251.6	4175.8	4028.3
15°	4310.9	4337.1	4375.7	4397.7	4411.5	4415.7	4406.0	4370.2	4302.7	4214.4	4044.8
17.5°	4302.7	4334.3	4404.6	4452.9	4488.7	4487.4	4484.6	4435.0	4360.5	4269.5	4065.5
20°	4339.9	4381.2	4479.1	4554.9	4607.3	4597.6	4582.5	4517.7	4430.8	4328.8	4084.8
22.5°	4451.5	4494.3	4601.8	4684.5	4735.5	4735.5	4690.0	4604.5	4512.2	4397.7	4111.0
25°	4611.4	4658.3	4772.7	4856.8	4880.3	4862.4	4816.9	4713.4	4607.3	4497.0	4166.1
27.5°	4807.2	4863.7	4969.9	5040.2	5033.3	5019.5	4972.6	4840.3	4734.1	4633.5	4259.9
30°	5051.2	5092.6	5202.9	5219.4	5194.6	5191.8	5125.7	4993.3	4894.1	4816.9	4393.6
32.5°	5281.4	5318.7	5406.9	5413.8	5369.7	5375.2	5313.1	5191.8	5135.3	5107.7	4618.3
35°	5525.5	5544.7	5620.6	5612.3	5583.3	5579.2	5554.4	5438.6	5456.5	5506.1	4936.8
37.5°	5729.4	5768.0	5810.8	5817.7	5816.4	5830.1	5846.7	5791.5	5894.9	6050.7	5354.5
40°	5917.0	5950.1	6013.4	6035.5	6089.3	6116.9	6173.4	6174.7	6413.2	6669.7	5868.7
42.5°	6043.8	6100.4	6218.9	6258.8	6389.8	6472.5	6556.6	6646.3	6992.3	7321.8	6475.3
45°	6154.1	6228.5	6425.7	6549.7	6727.6	6828.2	7006.0	7193.6	7691.3	8122.8	7091.6
47.5°	6320.9	6387.1	6613.1	6832.4	7101.2	7217.0	7483.1	7762.9	8413.6	8886.5	7681.6
50°	6552.5	6592.5	6822.7	7179.8	7523.1	7671.9	8023.5	8427.4	9185.6	9640.6	8200.0
52.5°	6848.9	6865.4	7048.8	7524.4	7976.6	8161.4	8627.3	9098.8	9861.2	10295.4	8610.7
55°	7199.1	7171.5	7314.9	7889.7	8495.0	8736.2	9236.7	9778.4	10620.8	10824.8	8909.9
57.5°	7545.1	7502.4	7616.8	8333.7	9134.6	9425.5	10008.7	10478.8	11299.1	11319.8	9119.4
60°	7911.8	7880.1	8016.6	8854.8	9919.0	10263.7	10802.7	11205.3	11955.2	11664.4	9152.6
62.5°	8288.2	8237.2	8431.6	9440.7	10802.7	11115.7	11638.2	11977.3	12599.1	11792.6	8834.1
65°	8653.5	8630.1	8930.6	10136.9	11809.1	12164.8	12672.2	12902.4	13114.7	11599.6	8044.2
67.5°	9042.2	9089.1	9568.9	11066.1	13121.6	13568.2	14115.5	13899.1	13262.2	10685.6	6774.4
70°	9635.0	9665.4	10407.1	12283.4	14813.1	15352.1	15616.9	14253.4	12550.8	8949.9	5092.6
72.5°	9890.2	10023.8	11155.6	13561.3	16734.9	17064.4	16121.4	13463.5	10455.3	6079.7	2675.9
73°	9833.6	9993.5	11190.2	13755.7	16885.2	17231.2	16013.8	13056.8	9719.1	5235.9	2294.0
75°	9129.2	9326.2	10742.1	13593.0	16592.9	16386.1	14285.1	11128.1	6567.6	2380.9	1045.0
77.5°	7203.2	7259.7	8511.5	10976.5	13066.4	12683.2	10691.1	6955.1	2682.8	885.1	592.8
80°	3613.3	3821.5	4797.5	6287.8	8737.6	8612.1	6748.3	3289.4	1118.0	519.8	392.9
82.5°	1738.4	1885.9	2336.7	3066.0	4827.9	4713.4	3341.8	1797.7	709.9	303.3	231.6
85°	1119.5	1229.7	1487.5	1462.7	1985.2	1895.6	1501.3	1360.7	420.5	158.6	161.3
87.5°	738.9	809.2	970.5	776.2	722.4	653.5	663.1	766.5	82.7	60.7	22.1
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°	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8	4288.8
2.5°	4242.0	4224.1	4164.8	4106.8	4051.7	3999.3	3964.9	3919.4	3889.1	3897.3	3909.8
5°	4135.8	4095.9	3991.0	3889.1	3792.5	3678.1	3585.7	3511.3	3454.8	3434.1	3429.9
7.5°	4024.2	3956.6	3806.3	3631.2	3467.2	3325.2	3161.1	3079.8	2984.7	2951.6	2940.6
10°	3956.6	3865.6	3654.7	3410.7	3163.9	2928.2	2750.3	2605.6	2474.6	2449.8	2437.4
12.5°	3937.3	3817.4	3533.4	3219.1	2890.9	2601.4	2338.1	2147.8	2021.0	1992.1	1949.4
15°	3926.3	3777.3	3420.3	3026.1	2609.7	2256.8	1979.7	1757.8	1642.0	1564.7	1566.1
17.5°	3916.6	3731.9	3293.5	2815.1	2367.1	1960.4	1654.3	1454.4	1348.2	1306.9	1302.8
20°	3902.9	3678.1	3147.3	2593.1	2090.0	1690.2	1413.1	1264.2	1192.5	1158.1	1156.6
22.5°	3897.3	3625.8	3004.0	2367.1	1844.6	1482.0	1253.1	1148.3	1102.9	1079.4	1079.4
25°	3911.1	3588.5	2853.7	2152.0	1626.8	1304.2	1142.9	1071.1	1045.0	1032.5	1028.5
27.5°	3953.8	3572.0	2704.8	1936.9	1426.9	1182.9	1068.4	1018.8	999.5	989.9	991.2
30°	4035.2	3570.6	2558.7	1724.6	1277.9	1090.5	1009.1	974.7	959.5	954.0	952.6
32.5°	4166.1	3600.9	2415.3	1549.6	1152.5	1013.3	954.0	929.2	922.3	918.1	916.7
35°	4388.1	3686.4	2273.3	1389.7	1056.0	944.4	901.6	889.2	879.5	883.7	885.1
37.5°	4687.3	3833.9	2138.2	1264.2	983.0	893.3	857.5	846.5	840.9	845.1	849.2
40°	5088.4	4046.2	2025.2	1163.5	930.6	850.6	818.9	809.2	803.7	810.6	812.0
42.5°	5531.0	4291.6	1931.4	1084.9	887.8	814.8	784.4	773.4	769.3	773.4	774.8
45°	5985.9	4576.9	1883.2	1028.5	852.0	788.6	756.8	744.5	734.8	732.0	736.2
47.5°	6433.9	4825.1	1881.8	993.9	823.0	765.1	730.7	716.8	704.5	697.6	696.2
50°	6799.3	5022.2	1914.9	978.8	798.2	738.9	704.5	690.7	674.2	660.4	663.1
52.5°	7075.0	5150.5	1930.0	971.9	784.4	711.4	676.9	664.5	645.2	627.3	627.3
55°	7252.9	5180.8	1892.8	965.0	773.4	682.4	645.2	634.2	614.9	597.0	597.0
57.5°	7313.5	5087.1	1759.1	948.4	762.4	657.6	613.5	603.8	588.7	570.7	568.0
60°	7172.9	4770.0	1524.7	898.9	740.3	631.4	579.0	574.9	569.4	554.2	552.8
62.5°	6631.1	4097.2	1269.7	834.1	703.1	603.8	547.3	554.2	558.4	550.1	548.6
65°	5729.4	3326.6	1084.9	744.5	653.5	565.2	512.9	530.8	541.8	541.8	539.0
67.5°	4647.3	2554.5	914.0	667.3	591.4	512.9	474.3	488.0	496.3	493.5	500.4
70°	3303.2	1730.1	744.5	579.0	512.9	453.6	424.6	424.6	419.1	416.3	416.3
72.5°	1601.9	988.5	603.8	483.9	437.0	387.4	363.9	354.3	343.3	341.9	335.0
73°	1338.6	886.4	576.3	466.0	419.1	377.7	351.6	336.4	329.5	324.0	322.6
75°	814.8	672.8	481.2	392.9	357.0	325.3	301.9	288.1	281.3	277.1	275.7
77.5°	536.3	501.8	373.6	300.5	273.0	253.7	244.0	230.2	226.1	220.6	220.6
80°	399.8	383.3	267.5	212.3	195.8	179.2	176.5	173.7	162.7	155.8	153.0
82.5°	257.8	273.0	182.0	142.0	124.1	110.3	111.7	115.8	104.8	95.1	92.4
85°	183.4	197.2	110.3	64.8	52.4	45.5	51.0	45.5	46.9	37.2	30.3
87.5°	30.3	52.4	19.3	8.3	4.1	2.7	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

(END OF REPORT)