

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: P651947

Luminaire Tested: **GALN-SA6A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22765 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

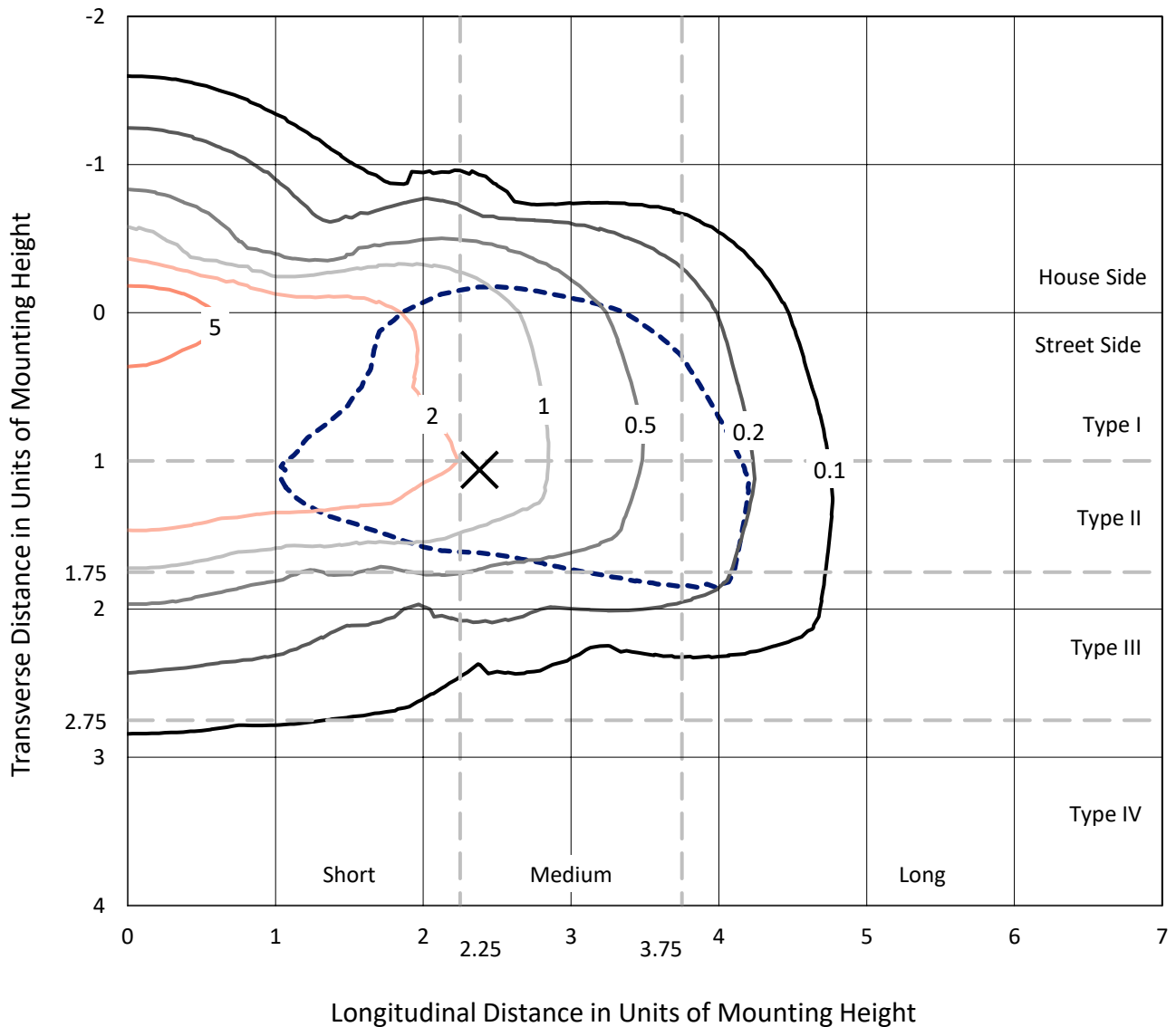
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

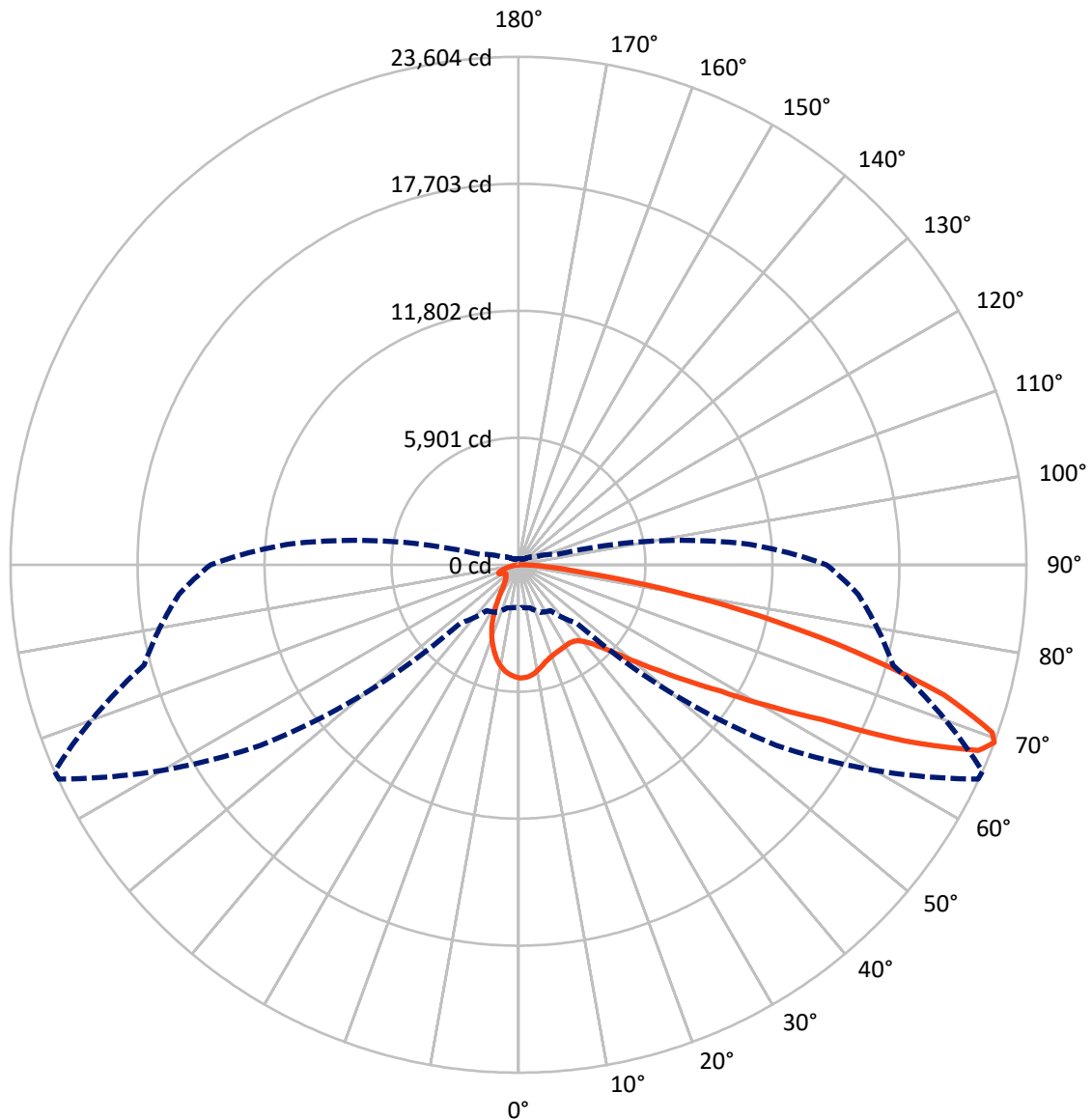
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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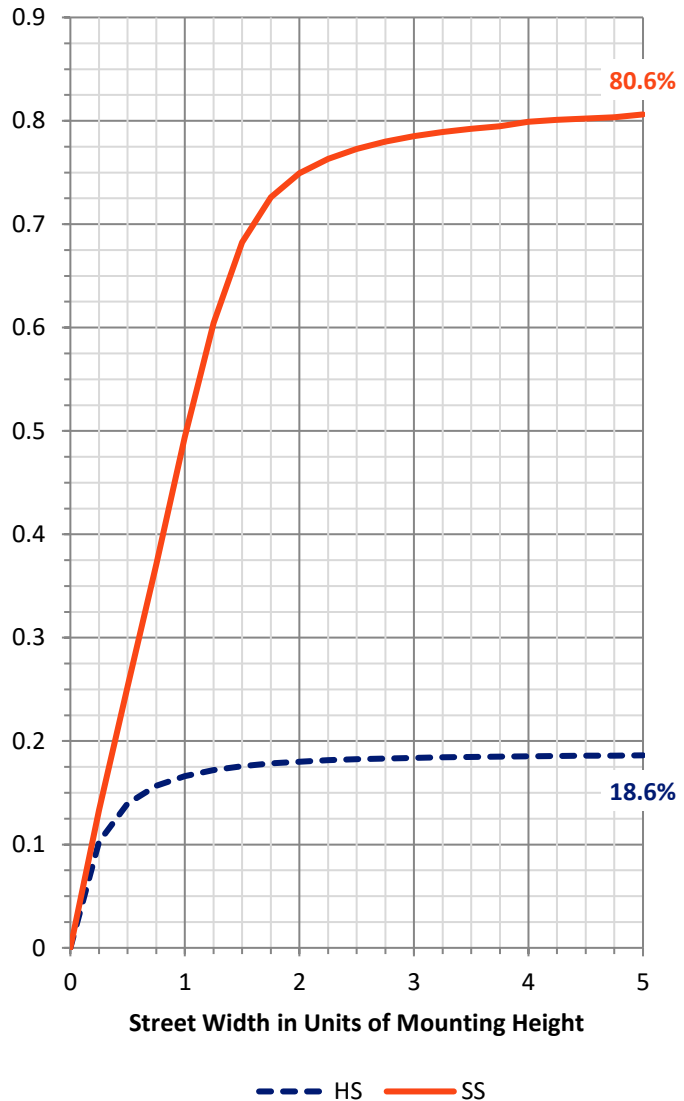
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4281.2	0.0	4281.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18483.8	0.0	18483.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	22765.0	0.0	22765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.5	2.0
10°-20°	1082.8	4.8
20°-30°	1474.1	6.5
30°-40°	1980.9	8.7
40°-50°	2957.8	13.0
50°-60°	4704.9	20.7
60°-70°	5786.8	25.4
70°-80°	3765.1	16.5
80°-90°	556.0	2.4
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°	22765.0	100.0
0°-180°	22765.0	100.0

Coefficient of Utilization

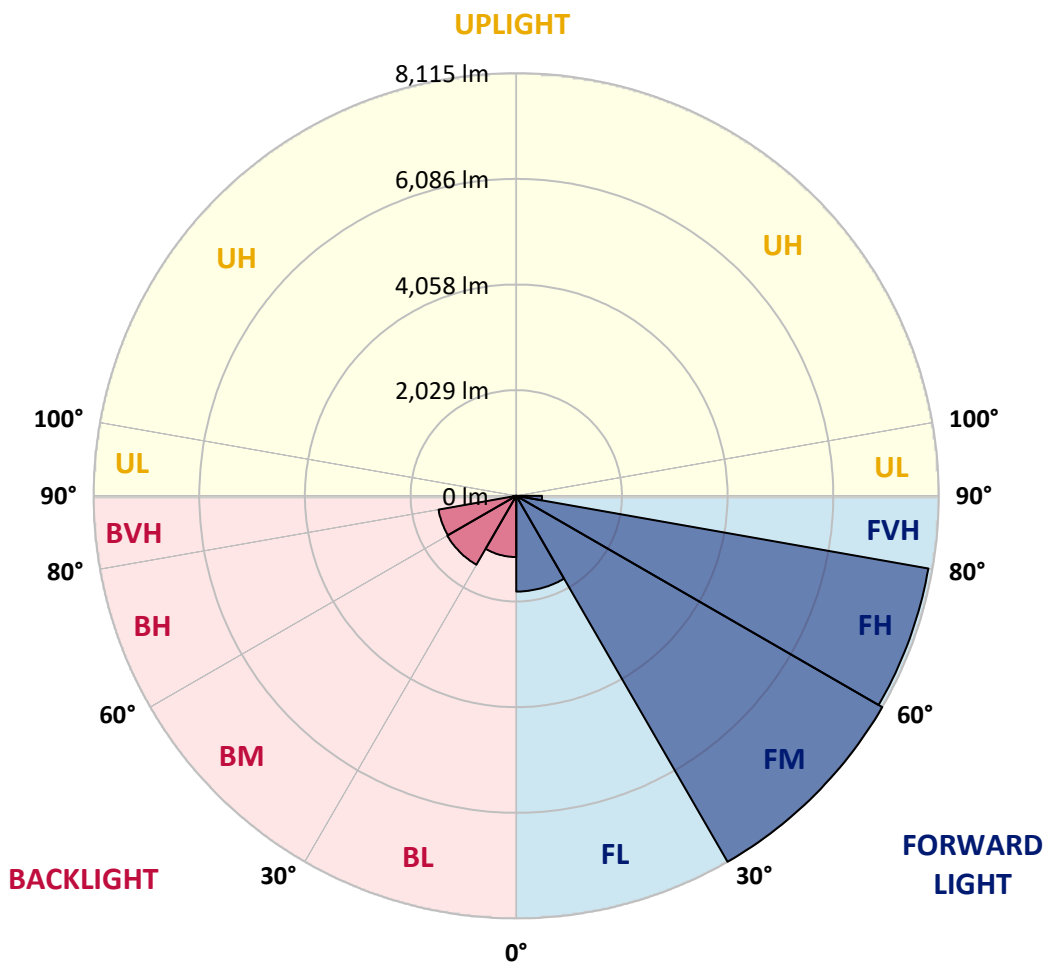


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.3	8.1			
FM (30°-60°)	8115.0	35.6			
FH (60°-80°)	8036.2	35.3			G4/12000
FVH (80°-90°)	494.3	2.2			G3/500
BL (0°-30°)	1175.2	5.2	B3/2500		
BM (30°-60°)	1528.6	6.7	B2/2500		
BH (60°-80°)	1515.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	61.7	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°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1
2.5°	5073.0	5093.2	5115.9	5141.1	5189.0	5215.5	5234.4	5255.8	5258.4	5269.7	5260.9
5°	4698.6	4722.6	4756.6	4804.5	4876.4	4988.6	5104.5	5199.1	5210.4	5263.4	5278.5
7.5°	4385.9	4399.8	4427.5	4504.5	4606.6	4731.4	4900.3	5091.9	5119.7	5245.7	5289.9
10°	4131.2	4145.1	4177.9	4257.3	4358.2	4514.6	4699.8	4952.0	4974.7	5191.5	5292.4
12.5°	3940.9	3953.5	3988.9	4067.0	4183.0	4329.2	4533.4	4800.7	4833.5	5119.7	5268.4
15°	3795.9	3819.9	3848.9	3913.2	4035.5	4176.7	4374.6	4662.0	4688.5	5044.0	5252.0
17.5°	3734.1	3745.5	3765.7	3825.0	3914.4	4053.1	4252.3	4553.6	4585.1	4991.1	5248.3
20°	3736.6	3748.0	3751.8	3784.6	3848.9	3968.7	4165.3	4467.9	4505.7	4944.4	5254.6
22.5°	3822.4	3823.7	3809.8	3798.5	3823.7	3923.3	4103.6	4403.6	4447.7	4924.2	5259.6
25°	3954.8	3977.5	3957.3	3904.3	3857.8	3905.6	4079.6	4368.3	4409.9	4895.3	5253.3
27.5°	4169.1	4172.9	4156.5	4084.7	3963.6	3928.3	4069.5	4341.8	4377.2	4873.8	5221.8
30°	4456.5	4445.2	4430.1	4350.7	4160.3	4015.3	4091.0	4317.9	4354.4	4842.3	5183.9
32.5°	4747.8	4783.0	4769.2	4675.9	4428.8	4184.2	4160.3	4315.3	4345.6	4818.3	5142.4
35°	5056.6	5073.0	5138.6	5090.7	4837.3	4457.8	4290.1	4354.4	4378.4	4819.6	5113.4
37.5°	5298.7	5342.8	5496.6	5538.2	5300.0	4819.6	4500.7	4465.4	4475.5	4881.4	5124.7
40°	5591.1	5666.8	5864.7	6034.9	5878.6	5289.9	4858.7	4670.8	4683.4	5030.2	5199.1
42.5°	5961.8	6014.7	6280.8	6511.4	6486.2	5911.4	5292.4	5007.5	5013.8	5326.4	5407.1
45°	6395.5	6471.2	6769.9	7116.6	7175.8	6614.8	5919.0	5516.8	5513.0	5786.6	5795.4
47.5°	6950.2	6996.9	7293.1	7671.3	7910.9	7498.6	6679.1	6248.0	6207.7	6457.3	6385.4
50°	7460.8	7533.8	7758.3	8171.8	8768.1	8533.6	7678.8	7196.0	7101.5	7334.7	7213.7
52.5°	7675.1	7752.0	7941.1	8454.2	9503.0	9872.5	8948.4	8326.8	8169.3	8348.3	8304.2
55°	7303.2	7402.7	7579.3	8203.3	9825.8	11416.8	10660.4	9634.2	9519.4	9442.6	9455.2
57.5°	6303.5	6398.0	6636.2	7324.6	9440.1	12537.5	13104.9	11314.7	11068.8	10714.6	10775.1
60°	4798.2	4857.4	4981.0	5743.7	8296.6	12828.8	15880.9	13438.9	13282.7	11981.6	12024.4
62.5°	3407.6	3474.4	3560.2	3940.9	6074.0	12008.1	18054.3	16405.4	15846.9	13293.9	13252.4
65°	2767.2	2721.8	2825.2	3003.0	3564.0	9306.4	18543.5	20522.8	19753.7	15022.4	14445.0
67.5°	2275.6	2227.6	2329.7	2646.2	2710.5	5402.1	16781.1	23195.5	23041.6	16902.1	15656.5
69°	2014.6	1989.4	2078.9	2439.4	2602.1	3836.3	14618.9	23567.3	23603.9	18010.2	15843.1
70°	1815.4	1825.5	1912.4	2334.8	2552.9	3163.1	12494.7	23054.2	23364.4	18563.6	15641.4
72.5°	1336.3	1357.8	1478.8	1933.9	2506.3	2684.0	7435.5	20137.0	20685.4	18596.4	14308.9
75°	934.2	924.1	1031.2	1456.1	2367.6	2660.1	4367.1	15573.3	16194.8	16073.8	12023.2
77.5°	611.4	627.8	713.6	1028.7	1991.9	2639.9	2846.6	11048.7	11452.1	10749.9	7111.6
80°	431.2	429.9	477.8	702.2	1477.6	2536.5	2331.0	6964.1	6862.0	4224.6	2109.1
82.5°	247.1	264.7	320.3	494.2	988.3	2232.7	2144.5	3330.8	3040.8	1204.0	712.3
85°	137.4	143.7	190.4	298.8	577.4	1681.7	1872.2	1515.3	1429.6	503.0	306.4
87.5°	44.2	47.9	79.4	151.3	262.2	794.2	1060.2	699.7	645.5	181.6	123.5
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°	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1	5257.1
2.5°	5264.7	5279.8	5239.4	5200.3	5165.1	5115.9	5071.7	5035.2	5010.0	5006.2	4993.6
5°	5282.3	5283.6	5206.6	5103.3	5002.4	4891.5	4776.8	4694.8	4617.9	4575.0	4553.6
7.5°	5294.9	5283.6	5144.9	4977.2	4783.0	4581.3	4379.7	4218.3	4093.5	4044.3	4063.2
10°	5289.9	5254.6	5051.6	4783.0	4500.7	4199.4	3909.4	3682.5	3474.4	3367.3	3369.8
12.5°	5262.1	5204.1	4912.9	4564.9	4150.2	3746.7	3303.0	2996.7	2755.9	2613.4	2569.3
15°	5238.2	5137.3	4750.3	4268.7	3753.0	3177.0	2636.1	2257.9	2056.2	1944.0	1942.7
17.5°	5212.9	5073.0	4572.5	3954.8	3296.7	2555.4	1988.1	1699.4	1604.9	1616.2	1597.3
20°	5186.4	4997.4	4387.2	3605.5	2740.7	1906.1	1488.9	1371.7	1398.1	1449.8	1457.4
22.5°	5156.3	4916.7	4188.0	3221.0	2155.8	1434.7	1207.8	1190.1	1258.1	1338.9	1350.2
25°	5109.6	4815.8	3937.1	2818.9	1662.8	1156.0	1057.7	1070.3	1137.1	1205.2	1212.8
27.5°	5044.0	4691.0	3683.7	2317.1	1249.3	992.1	967.0	983.3	1016.1	1057.7	1067.8
30°	4955.8	4549.8	3392.5	1883.5	1001.0	910.2	900.1	909.0	927.9	945.5	950.6
32.5°	4867.5	4413.7	3098.7	1442.2	892.6	856.0	846.0	846.0	846.0	848.5	849.7
35°	4785.5	4285.1	2783.6	1123.2	835.9	813.2	799.3	784.1	781.6	772.8	772.8
37.5°	4740.2	4167.8	2448.2	940.5	794.2	777.8	758.9	733.7	719.9	721.1	718.6
40°	4749.0	4091.0	2143.2	837.1	760.2	742.5	713.6	684.6	675.7	675.7	673.2
42.5°	4848.6	4065.7	1850.7	782.9	727.4	707.3	670.7	644.2	639.2	637.9	640.4
45°	5078.0	4127.5	1588.5	747.6	699.7	669.4	632.9	608.9	603.8	603.8	602.6
47.5°	5525.6	4328.0	1400.6	724.9	679.5	640.4	602.6	578.7	569.9	567.3	567.3
50°	6221.5	4762.9	1260.7	704.8	654.3	613.9	574.9	547.2	533.3	532.0	530.8
52.5°	7188.4	5441.1	1206.5	689.6	626.5	586.3	543.4	516.9	499.2	495.4	492.9
55°	8319.3	6387.9	1280.8	678.3	597.5	554.7	510.6	482.8	466.4	458.8	457.7
57.5°	9629.1	7525.1	1563.3	663.1	571.1	520.7	477.8	450.1	432.4	423.6	421.1
60°	10805.3	8693.8	2056.2	654.3	548.4	484.1	440.0	414.8	398.4	389.6	388.3
62.5°	12097.6	9808.2	2644.9	678.3	538.3	448.8	404.7	382.0	368.1	359.3	359.3
65°	13478.0	10923.9	3034.5	758.9	553.5	421.1	366.8	347.9	335.3	329.0	327.7
67.5°	14408.4	11309.7	2500.0	842.2	591.2	390.8	330.3	315.2	307.6	301.3	301.3
69°	14307.6	10821.7	1844.4	863.5	602.6	375.7	310.2	298.8	288.7	286.2	283.7
70°	13988.6	10265.8	1545.6	849.7	593.7	361.8	297.5	283.7	274.8	272.3	271.1
72.5°	12459.4	8903.0	1151.0	738.7	505.5	313.9	263.5	250.9	243.3	239.5	239.5
75°	10351.5	7276.7	898.9	587.5	395.9	264.7	225.6	215.5	209.2	206.7	205.5
77.5°	5801.7	4063.2	645.5	460.1	300.1	214.3	189.1	180.3	174.0	171.5	171.5
80°	1616.2	1161.1	379.5	303.9	204.2	162.6	150.0	143.7	134.9	128.6	132.4
82.5°	608.9	503.0	216.8	182.8	129.9	108.4	104.6	99.6	95.8	87.0	87.0
85°	296.3	244.6	138.7	97.1	71.8	56.8	54.2	51.7	49.2	42.9	44.2
87.5°	102.1	108.4	60.6	35.3	21.4	13.9	11.4	6.3	6.3	6.3	6.3
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)