

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: P651953

Luminaire Tested: **GALN-SA6A-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651953
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-SA6A-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 22323.5 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

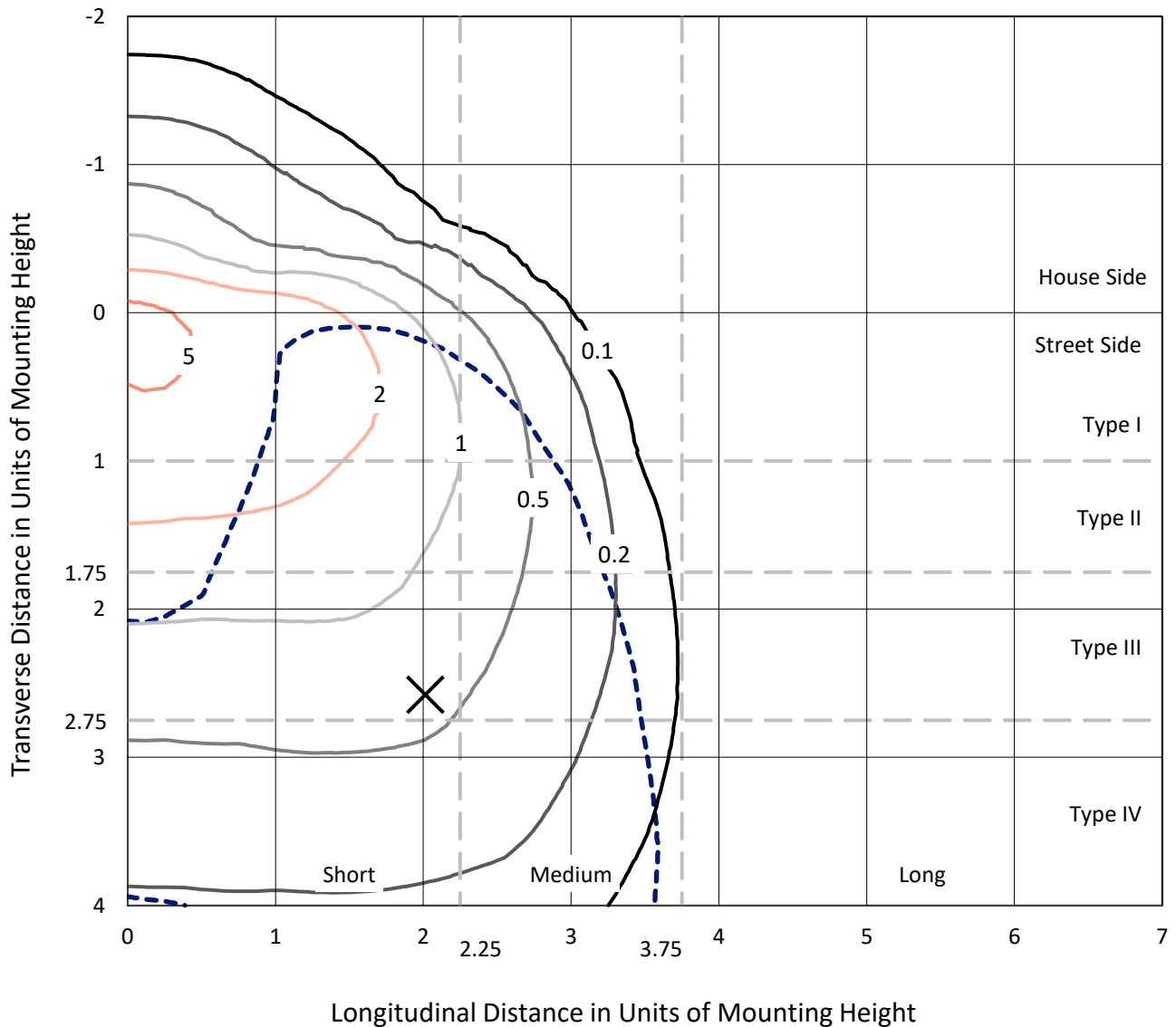
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

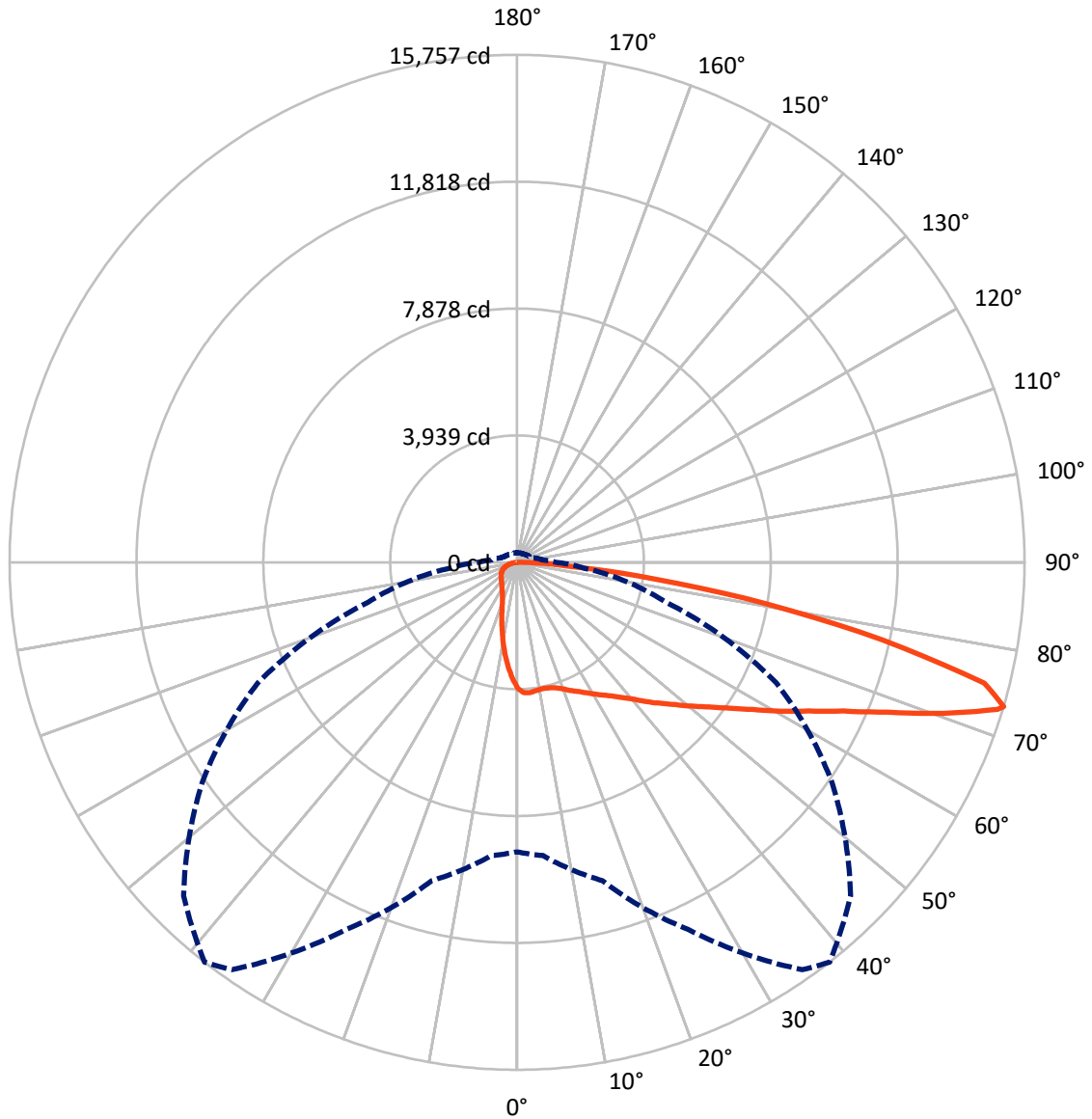
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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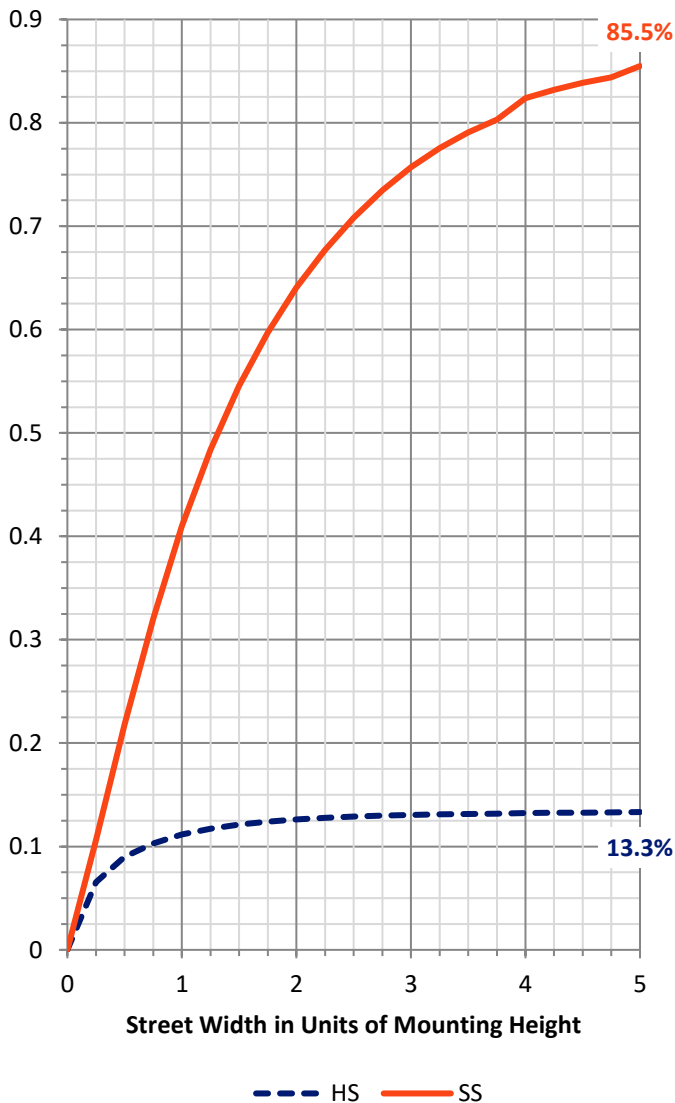
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3000.9	0.0	3000.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19322.6	0.0	19322.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	22323.5	0.0	22323.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	1.5
10°-20°	877.9	3.9
20°-30°	1367.0	6.1
30°-40°	2005.1	9.0
40°-50°	2974.3	13.3
50°-60°	4214.0	18.9
60°-70°	5345.6	23.9
70°-80°	4449.8	19.9
80°-90°	747.6	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°	22323.5	100.0
0°-180°	22323.5	100.0



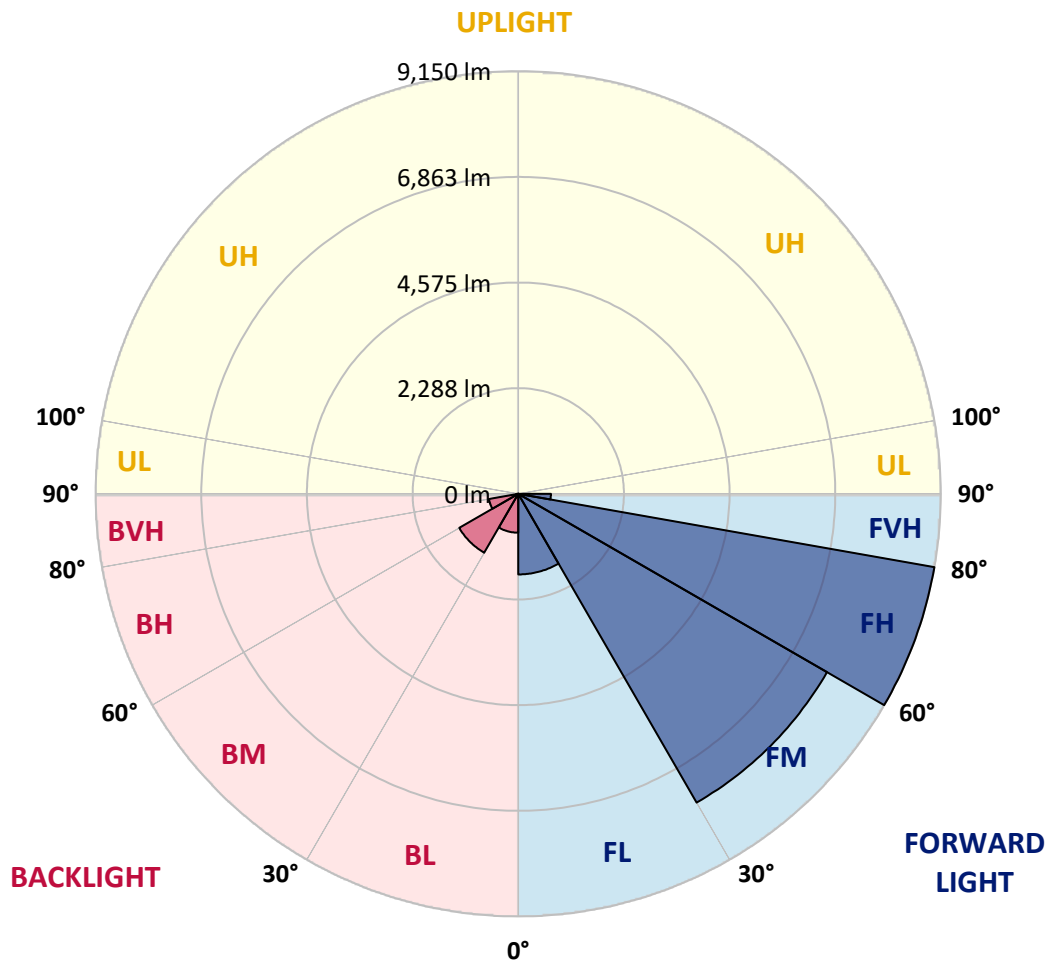
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.1	7.8			
FM (30°-60°)	7720.1	34.6			
FH (60°-80°)	9150.3	41.0			G4/12000
FVH (80°-90°)	707.1	3.2			G4/750
BL (0°-30°)	842.1	3.8	B2/1000		
BM (30°-60°)	1473.3	6.6	B2/2500		
BH (60°-80°)	645.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	40.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	4079.4	4099.6	4089.5	4075.7	4066.8	4058.0	4045.4	4008.9	3979.9	3948.3	3899.1
5°	4109.7	4122.3	4113.5	4095.8	4075.7	4066.8	4042.9	3995.0	3948.3	3895.4	3822.3
7.5°	4092.1	4097.1	4087.0	4065.6	4047.9	4031.5	4003.8	3950.8	3894.2	3829.8	3734.0
10°	4029.0	4047.9	4047.9	4030.2	4012.7	4003.8	3976.1	3925.6	3874.0	3800.8	3687.4
12.5°	3977.3	3997.5	4013.9	4008.9	4007.6	4007.6	3986.2	3948.3	3887.9	3818.5	3683.6
15°	3942.0	3966.0	4001.3	4021.5	4034.0	4037.8	4029.0	3996.3	3934.5	3853.8	3698.7
17.5°	3934.5	3963.5	4027.7	4071.9	4104.7	4103.4	4100.9	4055.5	3987.4	3904.2	3717.6
20°	3968.5	4006.4	4095.8	4165.1	4213.1	4204.2	4190.4	4131.2	4051.7	3958.4	3735.3
22.5°	4070.6	4109.7	4208.0	4283.6	4330.3	4330.3	4288.7	4210.6	4126.1	4021.5	3759.3
25°	4216.9	4259.7	4364.4	4441.2	4462.7	4446.3	4404.7	4310.1	4213.1	4112.2	3809.6
27.5°	4395.8	4447.5	4544.6	4608.9	4602.6	4590.0	4547.1	4426.1	4329.0	4237.0	3895.4
30°	4619.0	4656.8	4757.7	4772.8	4750.1	4747.6	4687.1	4566.0	4475.3	4404.7	4017.7
32.5°	4829.5	4863.6	4944.2	4950.5	4910.2	4915.2	4858.5	4747.6	4695.9	4670.7	4223.2
35°	5052.6	5070.3	5139.6	5132.1	5105.6	5101.8	5079.1	4973.3	4989.7	5035.0	4514.4
37.5°	5239.3	5274.5	5313.6	5319.9	5318.7	5331.3	5346.4	5295.9	5390.5	5532.9	4896.3
40°	5410.7	5440.9	5499.0	5519.1	5568.3	5593.5	5645.1	5646.4	5864.5	6099.0	5366.6
42.5°	5526.6	5578.4	5686.8	5723.3	5843.1	5918.7	5995.7	6077.6	6394.0	6695.3	5921.2
45°	5627.6	5695.6	5875.9	5989.3	6151.9	6244.0	6406.6	6578.0	7033.1	7427.7	6484.8
47.5°	5780.0	5840.6	6047.3	6247.8	6493.6	6599.5	6842.8	7098.7	7693.7	8126.1	7024.3
50°	5991.9	6028.4	6239.0	6565.4	6879.3	7015.5	7337.0	7706.3	8399.7	8815.7	7498.3
52.5°	6262.8	6278.0	6445.7	6880.6	7294.1	7463.0	7889.1	8320.3	9017.4	9414.5	7873.9
55°	6583.1	6557.9	6689.0	7214.7	7768.1	7988.7	8446.3	8941.8	9712.0	9898.6	8147.5
57.5°	6899.5	6860.5	6965.1	7620.6	8353.1	8619.0	9152.3	9582.2	10332.3	10351.1	8339.2
60°	7234.9	7205.9	7330.7	8097.1	9070.4	9385.5	9878.4	10246.5	10932.3	10666.3	8369.4
62.5°	7579.0	7532.3	7710.1	8632.9	9878.4	10164.6	10642.4	10952.4	11521.0	10783.6	8078.2
65°	7913.1	7891.6	8166.4	9269.5	10798.7	11123.9	11587.8	11798.4	11992.5	10607.0	7355.9
67.5°	8268.5	8311.4	8750.1	10119.2	11998.8	12407.3	12907.8	12709.8	12127.4	9771.2	6194.8
70°	8810.7	8838.4	9516.6	11232.3	13545.7	14038.6	14280.6	13033.8	11476.9	8184.1	4656.8
72.5°	9043.9	9166.1	10201.2	12401.0	15302.9	15604.3	14742.0	12311.5	9560.7	5559.4	2446.9
73°	8992.1	9138.4	10232.6	12578.7	15440.3	15756.8	14643.7	11939.6	8887.5	4787.9	2097.7
75°	8348.0	8528.2	9823.0	12430.0	15173.1	14984.0	13062.7	10175.9	6005.7	2177.1	955.5
77.5°	6586.9	6638.5	7783.2	10037.3	11948.3	11597.9	9776.3	6360.0	2453.2	809.3	542.1
80°	3304.1	3494.5	4387.1	5749.8	7989.9	7875.2	6170.8	3007.9	1022.4	475.2	359.3
82.5°	1589.7	1724.6	2136.8	2803.6	4414.7	4310.1	3055.8	1643.9	649.3	277.4	211.8
85°	1023.7	1124.5	1360.2	1337.5	1815.3	1733.4	1372.8	1244.3	384.5	145.0	147.5
87.5°	675.7	740.0	887.5	709.7	660.6	597.5	606.4	700.9	75.6	55.5	20.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3879.0	3862.6	3808.4	3755.5	3705.0	3657.1	3625.6	3584.0	3556.3	3563.8	3575.2
5°	3781.9	3745.4	3649.6	3556.3	3468.0	3363.4	3279.0	3210.9	3159.1	3140.3	3136.5
7.5°	3679.8	3618.1	3480.6	3320.5	3170.5	3040.6	2890.7	2816.3	2729.3	2699.0	2688.9
10°	3618.1	3534.8	3342.0	3118.8	2893.2	2677.6	2515.0	2382.6	2262.9	2240.2	2228.8
12.5°	3600.4	3490.7	3231.0	2943.6	2643.6	2378.9	2138.1	1964.1	1848.1	1821.6	1782.6
15°	3590.3	3454.2	3127.7	2767.1	2386.4	2063.6	1810.3	1607.3	1501.4	1430.8	1432.1
17.5°	3581.5	3412.5	3011.7	2574.2	2164.6	1792.7	1512.8	1330.0	1232.9	1195.1	1191.3
20°	3568.9	3363.4	2878.1	2371.3	1911.2	1545.6	1292.2	1156.0	1090.4	1058.9	1057.6
22.5°	3563.8	3315.5	2747.0	2164.6	1686.7	1355.2	1145.9	1050.2	1008.5	987.1	987.1
25°	3576.4	3281.4	2609.5	1967.9	1487.6	1192.5	1045.1	979.5	955.5	944.2	940.4
27.5°	3615.5	3266.4	2473.4	1771.2	1304.7	1081.6	977.0	931.6	914.0	905.2	906.4
30°	3689.9	3265.1	2339.7	1577.0	1168.7	997.2	922.8	891.3	877.4	872.4	871.1
32.5°	3809.6	3292.8	2208.6	1417.0	1053.9	926.6	872.4	849.7	843.4	839.6	838.3
35°	4012.7	3371.0	2078.8	1270.8	965.6	863.5	824.4	813.1	804.3	808.0	809.3
37.5°	4286.2	3505.9	1955.2	1156.0	898.9	816.9	784.1	774.1	769.0	772.8	776.6
40°	4653.0	3700.0	1851.9	1063.9	850.9	777.8	748.8	740.0	734.9	741.3	742.5
42.5°	5057.7	3924.4	1766.2	992.1	811.8	745.0	717.3	707.2	703.4	707.2	708.5
45°	5473.7	4185.3	1722.0	940.4	779.1	721.1	692.1	680.7	672.0	669.4	673.2
47.5°	5883.4	4412.2	1720.8	909.0	752.6	699.6	668.2	655.6	644.2	637.9	636.6
50°	6217.5	4592.5	1751.0	895.1	729.9	675.7	644.2	631.6	616.5	603.8	606.4
52.5°	6469.6	4709.8	1764.9	888.8	717.3	650.5	619.0	607.6	590.0	573.6	573.6
55°	6632.2	4737.5	1730.9	882.5	707.2	624.0	590.0	579.9	562.2	545.9	545.9
57.5°	6687.7	4651.7	1608.6	867.3	697.1	601.3	560.9	552.2	538.3	521.9	519.4
60°	6559.1	4361.8	1394.3	821.9	677.0	577.3	529.5	525.7	520.7	506.8	505.5
62.5°	6063.7	3746.7	1161.1	762.7	642.9	552.2	500.5	506.8	510.6	503.0	501.7
65°	5239.3	3041.9	992.1	680.7	597.5	516.9	468.9	485.3	495.4	495.4	492.9
67.5°	4249.7	2336.0	835.8	610.1	540.8	468.9	433.6	446.2	453.8	451.3	457.6
70°	3020.5	1582.1	680.7	529.5	468.9	414.8	388.3	388.3	383.2	380.7	380.7
72.5°	1464.9	903.9	552.2	442.5	399.6	354.2	332.8	324.0	313.9	312.6	306.4
73°	1224.1	810.6	527.0	426.1	383.2	345.4	321.4	307.6	301.3	296.3	295.0
75°	745.0	615.2	439.9	359.3	326.5	297.5	276.1	263.5	257.2	253.4	252.1
77.5°	490.4	458.8	341.6	274.8	249.6	231.9	223.1	210.5	206.7	201.7	201.7
80°	365.6	350.4	244.6	194.1	179.0	163.9	161.4	158.9	148.8	142.5	139.9
82.5°	235.7	249.6	166.4	129.9	113.5	100.8	102.1	105.9	95.8	87.0	84.4
85°	167.7	180.3	100.8	59.3	47.9	41.6	46.7	41.6	42.9	34.1	27.8
87.5°	27.8	47.9	17.7	7.6	3.8	2.5	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)