

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643017

Luminaire Tested: GWS-SA6E-722-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-722-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

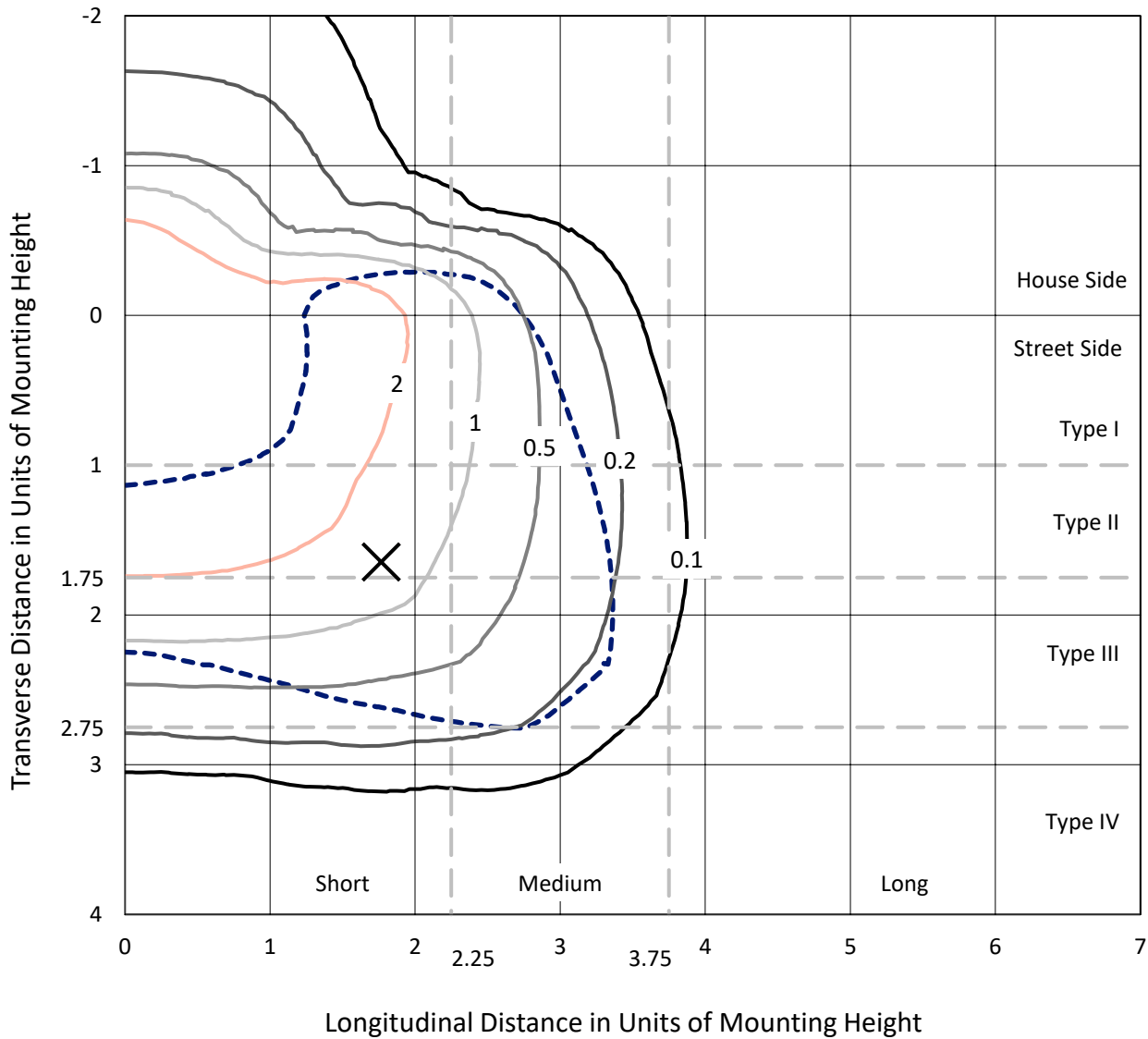
Lumens per Lamp: N/A  
Luminaire Lumens: 32690.9 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

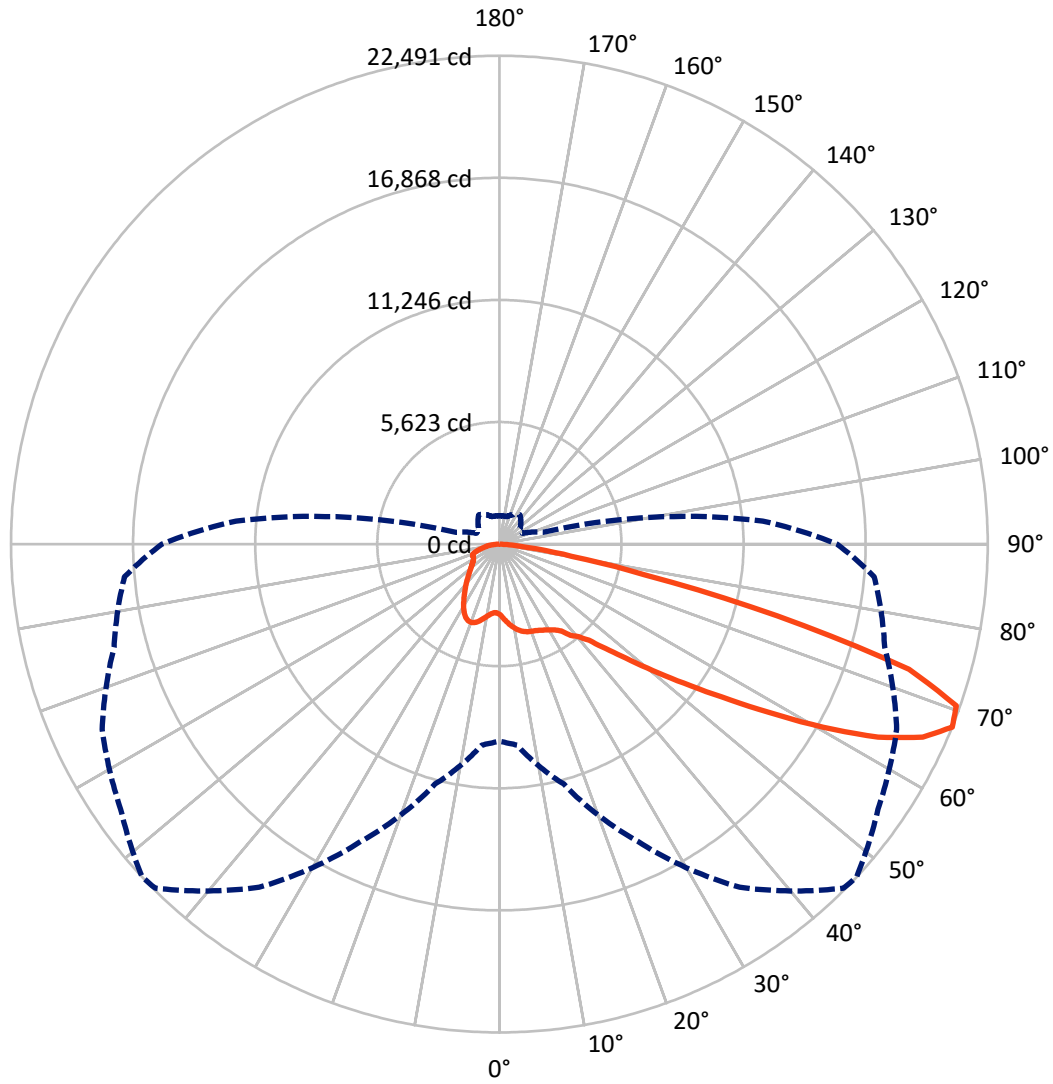
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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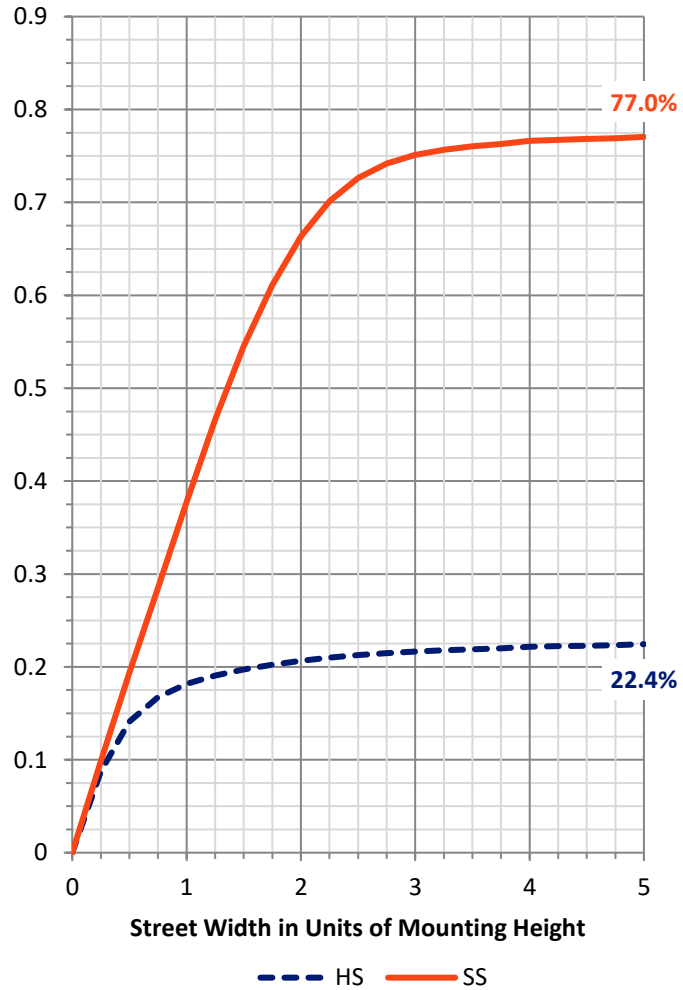
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7450.5	0.0	7450.5
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	25240.4	0.0	25240.4
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	32690.9	0.0	32690.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.2	1.0
10°-20°	1103.4	3.4
20°-30°	1875.6	5.7
30°-40°	2747.5	8.4
40°-50°	4186.2	12.8
50°-60°	7489.9	22.9
60°-70°	9994.5	30.6
70°-80°	4519.7	13.8
80°-90°	442.8	1.4
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°	32690.9	100.0
0°-180°	32690.9	100.0

**Coefficient of Utilization**



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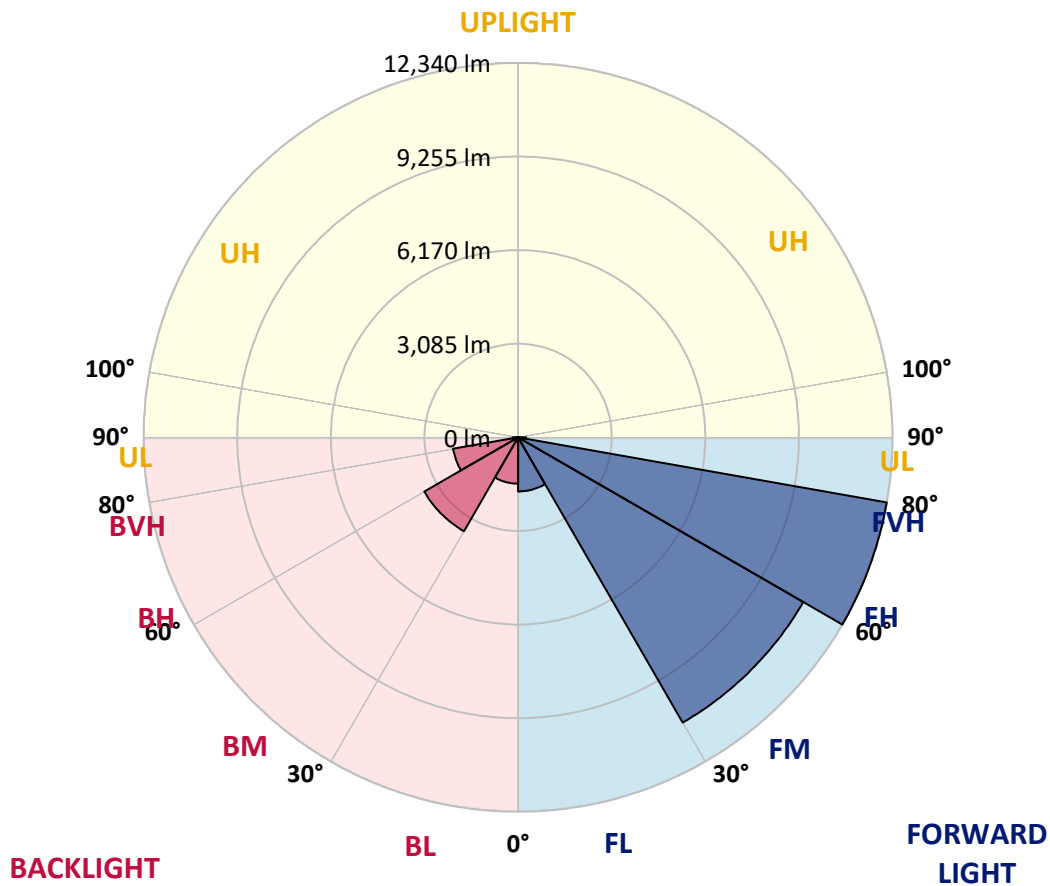
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.8	5.5			
FM (30°-60°)	10853.7	33.2			
FH (60°-80°)	12340.4	37.7			G5
FVH (80°-90°)	263.4	0.8			G3/500
BL (0°-30°)	1527.4	4.7	B3/2500		
BM (30°-60°)	3569.9	10.9	B3/5000		
BH (60°-80°)	2173.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	179.4	0.5			G2/225
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7
2.5°	3455.8	3467.6	3465.3	3446.3	3434.5	3413.3	3415.6	3382.5	3332.9	3299.8	3262.0
5°	3760.7	3779.6	3756.0	3725.3	3678.0	3609.4	3602.4	3526.7	3432.2	3366.0	3297.4
7.5°	4025.5	4037.3	4008.9	3956.9	3888.4	3796.2	3779.6	3689.8	3571.6	3467.6	3368.3
10°	4231.1	4245.3	4207.5	4138.9	4049.1	3956.9	3945.1	3852.9	3727.6	3604.7	3479.4
12.5°	4406.0	4410.8	4370.6	4278.4	4181.5	4086.9	4075.1	3990.0	3874.2	3748.9	3611.8
15°	4507.7	4510.0	4460.4	4358.8	4266.6	4183.8	4176.7	4103.5	3997.1	3878.9	3732.4
17.5°	4500.6	4505.3	4469.9	4380.0	4299.7	4250.0	4242.9	4195.7	4112.9	4006.6	3860.0
20°	4413.1	4417.9	4394.2	4335.1	4292.6	4278.4	4280.8	4266.6	4216.9	4129.5	3980.6
22.5°	4344.6	4351.7	4330.4	4287.8	4283.1	4316.2	4323.3	4330.4	4306.8	4228.8	4084.6
25°	4377.7	4389.5	4356.4	4297.3	4306.8	4380.0	4394.2	4417.9	4398.9	4332.8	4207.5
27.5°	4607.0	4614.0	4528.9	4408.4	4380.0	4458.0	4479.3	4517.1	4502.9	4441.5	4344.6
30°	5138.8	5134.1	4952.1	4656.6	4538.4	4569.1	4585.7	4640.0	4644.8	4604.6	4512.4
32.5°	5888.1	5864.5	5583.2	5112.8	4770.0	4694.4	4713.3	4786.6	4841.0	4798.4	4673.1
35°	6680.0	6658.7	6349.0	5798.3	5197.9	4935.5	4914.2	4971.0	5053.7	4935.5	4755.9
37.5°	7434.0	7400.9	7084.2	6403.4	5725.0	5358.6	5327.9	5271.2	5221.5	4994.6	4857.5
40°	8270.8	8232.9	7956.4	7185.8	6306.5	5682.5	5604.5	5379.9	5335.0	5190.8	5122.2
42.5°	9164.3	9164.3	8935.0	8176.2	7008.5	6145.8	6044.1	5706.1	5753.4	5658.8	5578.5
45°	10057.8	10083.8	9901.8	9173.7	7946.9	7020.3	6857.2	6377.4	6490.9	6448.3	6408.1
47.5°	10818.9	10868.5	10833.1	10192.5	9095.7	8084.0	7835.8	7337.1	7580.5	7682.2	7795.7
50°	11639.1	11693.5	11658.0	11405.1	10440.7	9372.3	9150.1	8634.8	9053.2	9358.1	9729.2
52.5°	12856.4	12934.4	12639.0	12542.1	12074.0	10835.4	10636.9	10050.7	10809.4	11315.3	12142.6
55°	13884.7	13882.3	13778.3	14000.5	13827.9	12624.8	12405.0	11873.1	12842.3	13378.8	14589.1
57.5°	14362.2	14418.9	14775.8	15404.6	15749.7	14811.3	14600.9	14057.2	15024.0	15302.9	16610.1
60°	14608.0	14678.9	15369.1	16612.4	17541.4	17198.7	17115.9	16423.3	16967.0	16933.9	18314.3
62.5°	14262.9	14404.7	15513.3	17165.6	18820.2	19597.9	19571.9	18524.7	18619.3	18295.4	19370.9
65°	12679.2	12832.8	14572.5	16889.0	19550.6	21422.7	21429.8	20427.5	19888.6	18957.3	19193.7
67.5°	9067.3	9287.2	11438.2	15111.5	19292.9	22408.4	22491.1	21290.3	20186.4	18371.1	17331.0
70°	4942.6	5103.3	6788.7	10984.4	16971.7	22172.0	22325.6	20874.3	18872.2	15891.5	13341.0
72.5°	2245.6	2297.6	3158.0	6027.6	11594.2	19084.9	19727.9	18628.7	15499.1	11738.4	8483.5
75°	1028.2	1051.9	1375.7	2883.8	6058.3	12771.3	13222.8	13875.2	10785.8	7412.7	4422.6
77.5°	645.3	652.4	782.4	1319.0	3020.9	6375.0	6850.2	8261.3	6315.9	3668.5	1848.5
80°	380.6	387.7	486.9	713.9	1418.3	2916.9	3368.3	3266.7	2968.9	1583.7	841.5
82.5°	191.5	198.6	281.3	406.6	772.9	1160.6	1366.2	1373.3	1106.2	858.0	475.1
85°	68.5	70.9	92.2	160.7	328.6	382.9	427.8	522.4	541.3	498.8	229.3
87.5°	0.0	0.0	2.4	4.7	9.5	37.8	40.2	75.6	158.4	177.3	92.2
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°	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7	3240.7
2.5°	3250.2	3214.7	3202.9	3191.1	3172.2	3165.1	3150.9	3136.7	3136.7	3122.5	3115.4
5°	3266.7	3219.4	3188.7	3174.5	3162.7	3169.8	3169.8	3174.5	3191.1	3181.6	3186.3
7.5°	3325.8	3271.4	3228.9	3217.1	3217.1	3245.4	3264.3	3288.0	3318.7	3323.4	3323.4
10°	3429.8	3366.0	3321.1	3314.0	3325.8	3366.0	3394.3	3422.7	3460.5	3462.9	3467.6
12.5°	3543.3	3479.4	3434.5	3444.0	3455.8	3507.8	3538.5	3562.2	3600.0	3600.0	3597.6
15°	3661.5	3590.5	3552.7	3571.6	3607.1	3666.2	3670.9	3673.3	3692.2	3687.5	3685.1
17.5°	3784.4	3708.7	3680.4	3708.7	3746.5	3774.9	3751.3	3718.2	3711.1	3701.6	3696.9
20°	3904.9	3826.9	3815.1	3836.4	3848.2	3824.5	3751.3	3689.8	3661.5	3647.3	3642.5
22.5°	4008.9	3942.7	3935.6	3935.6	3876.6	3793.8	3685.1	3602.4	3564.5	3545.6	3540.9
25°	4131.8	4070.4	4058.6	3994.7	3843.5	3692.2	3545.6	3470.0	3439.3	3429.8	3432.2
27.5°	4276.0	4233.5	4195.7	4013.6	3748.9	3512.5	3347.1	3314.0	3302.2	3314.0	3321.1
30°	4453.3	4410.8	4325.7	3990.0	3597.6	3278.5	3120.2	3117.8	3153.2	3184.0	3188.7
32.5°	4597.5	4578.6	4439.1	3914.4	3384.9	3020.9	2886.1	2895.6	2959.4	3002.0	3009.1
35°	4711.0	4741.7	4533.7	3789.1	3132.0	2777.4	2671.0	2675.8	2711.2	2770.3	2772.7
37.5°	4871.7	4975.7	4618.8	3597.6	2841.2	2567.0	2470.1	2434.7	2429.9	2446.5	2451.2
40°	5195.5	5351.5	4680.2	3318.7	2559.9	2377.9	2269.2	2200.7	2141.6	2096.6	2082.5
42.5°	5684.8	5864.5	4715.7	2980.7	2309.4	2191.2	2068.3	1980.8	1876.8	1782.3	1749.2
45°	6583.0	6642.1	4715.7	2621.4	2087.2	2016.3	1893.4	1789.4	1657.0	1545.9	1522.3
47.5°	8020.2	7831.1	4720.4	2273.9	1891.0	1862.6	1756.3	1638.1	1491.5	1399.3	1385.2
50°	10185.4	9521.2	4817.3	1985.6	1727.9	1732.6	1654.6	1524.6	1392.2	1323.7	1311.9
52.5°	12639.0	11603.7	5077.3	1772.8	1590.8	1626.3	1583.7	1458.4	1340.2	1281.2	1269.3
55°	14946.0	13518.3	5299.5	1621.5	1475.0	1536.4	1534.1	1418.3	1311.9	1252.8	1245.7
57.5°	16907.9	14830.2	5266.4	1498.6	1375.7	1453.7	1489.2	1392.2	1293.0	1243.3	1236.2
60°	18127.6	15525.1	4796.1	1385.2	1300.1	1394.6	1463.2	1385.2	1302.4	1290.6	1293.0
62.5°	18657.1	15397.5	3893.1	1300.1	1250.4	1366.2	1491.5	1434.8	1389.9	1418.3	1434.8
65°	17834.5	14300.7	2864.9	1236.2	1203.1	1373.3	1557.7	1512.8	1389.9	1408.8	1415.9
67.5°	15551.1	12173.3	2070.6	1172.4	1144.1	1394.6	1652.3	1501.0	1309.5	1309.5	1295.3
70°	11206.5	8755.3	1503.3	1108.6	1085.0	1363.9	1657.0	1420.6	1217.3	1210.2	1174.8
72.5°	6743.8	5164.8	1172.4	1037.7	995.1	1210.2	1553.0	1326.1	1127.5	1068.4	1025.9
75°	3503.1	2588.3	983.3	959.7	853.3	1025.9	1420.6	1179.5	964.4	912.4	888.8
77.5°	1501.0	1210.2	843.9	855.7	709.1	862.8	1146.4	1021.1	855.7	789.5	768.2
80°	739.9	687.9	666.6	685.5	567.3	666.6	988.0	893.5	725.7	650.0	619.3
82.5°	423.1	401.8	479.8	486.9	404.2	557.8	834.4	756.4	600.4	517.7	468.0
85°	196.2	210.4	290.7	293.1	250.6	382.9	546.0	425.5	319.1	264.7	252.9
87.5°	78.0	92.2	127.6	125.3	73.3	70.9	47.3	26.0	21.3	18.9	16.5
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)