

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: P642838

Luminaire Tested: GWS-SA6D-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-760-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

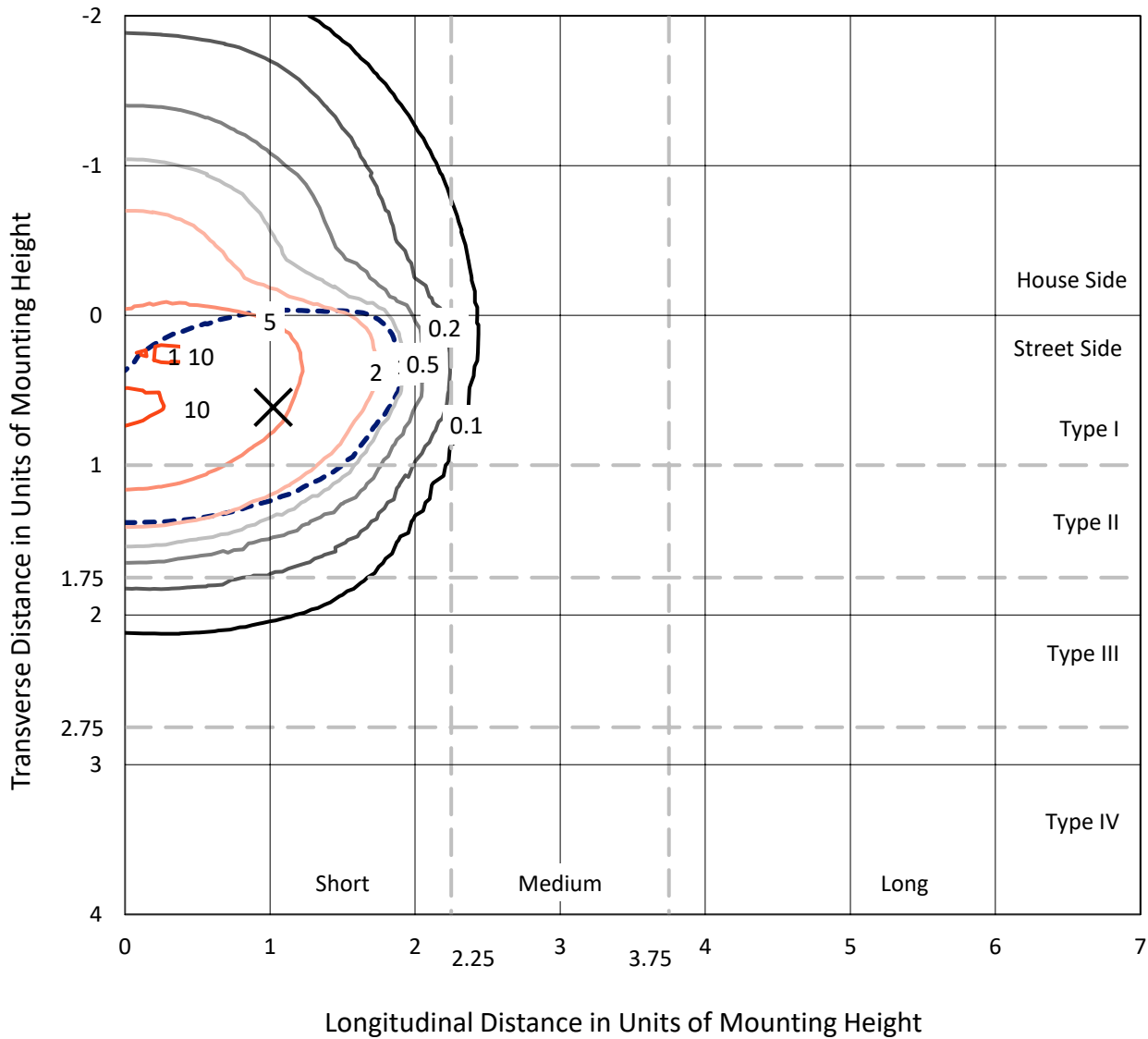
Lumens per Lamp: N/A  
Luminaire Lumens: 31807.2 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

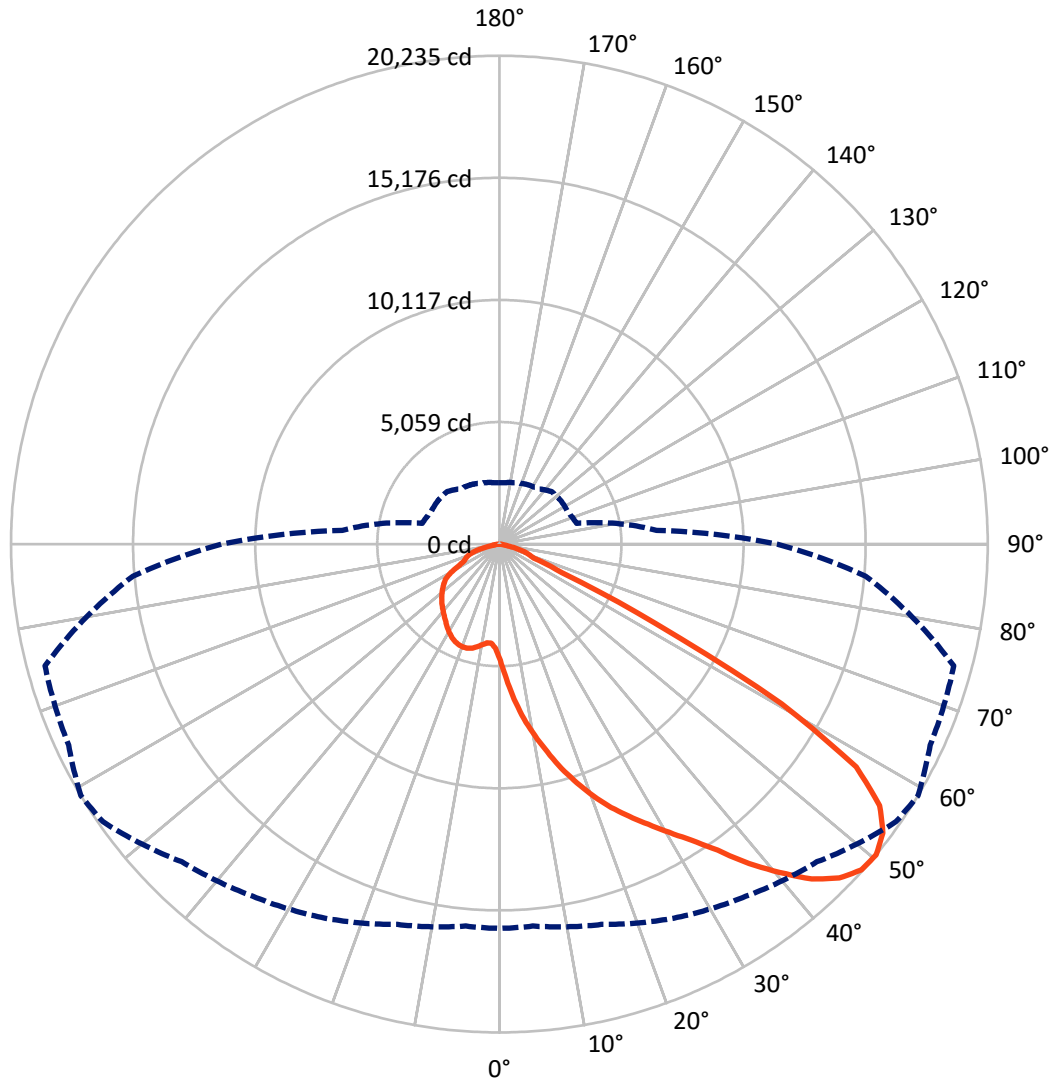
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P642838  
CATALOG NUMBER: GWS-SA6D-760-U-T2R-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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CATALOG NUMBER: GWS-SA6D-760-U-T2R-W-GRSWH

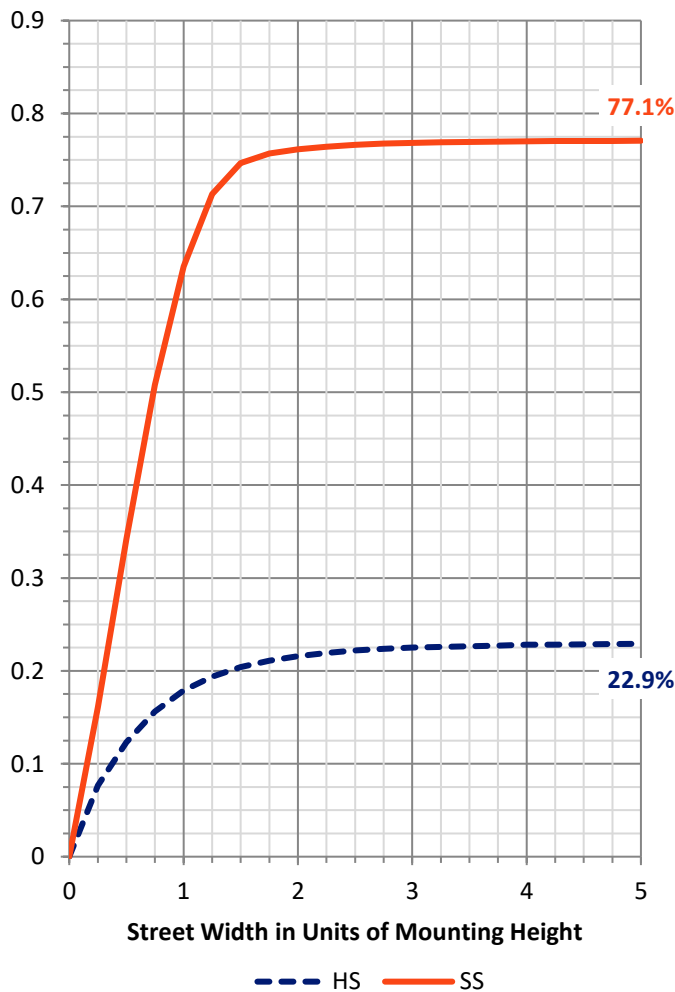
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7316.3	0.0	7316.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	24490.9	0.0	24490.9
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	31807.2	0.0	31807.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.6	1.7
10°-20°	1962.5	6.2
20°-30°	3716.2	11.7
30°-40°	6162.6	19.4
40°-50°	8418.5	26.5
50°-60°	7641.8	24.0
60°-70°	2544.8	8.0
70°-80°	742.2	2.3
80°-90°	78.0	0.2
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°	31807.2	100.0
0°-180°	31807.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642838

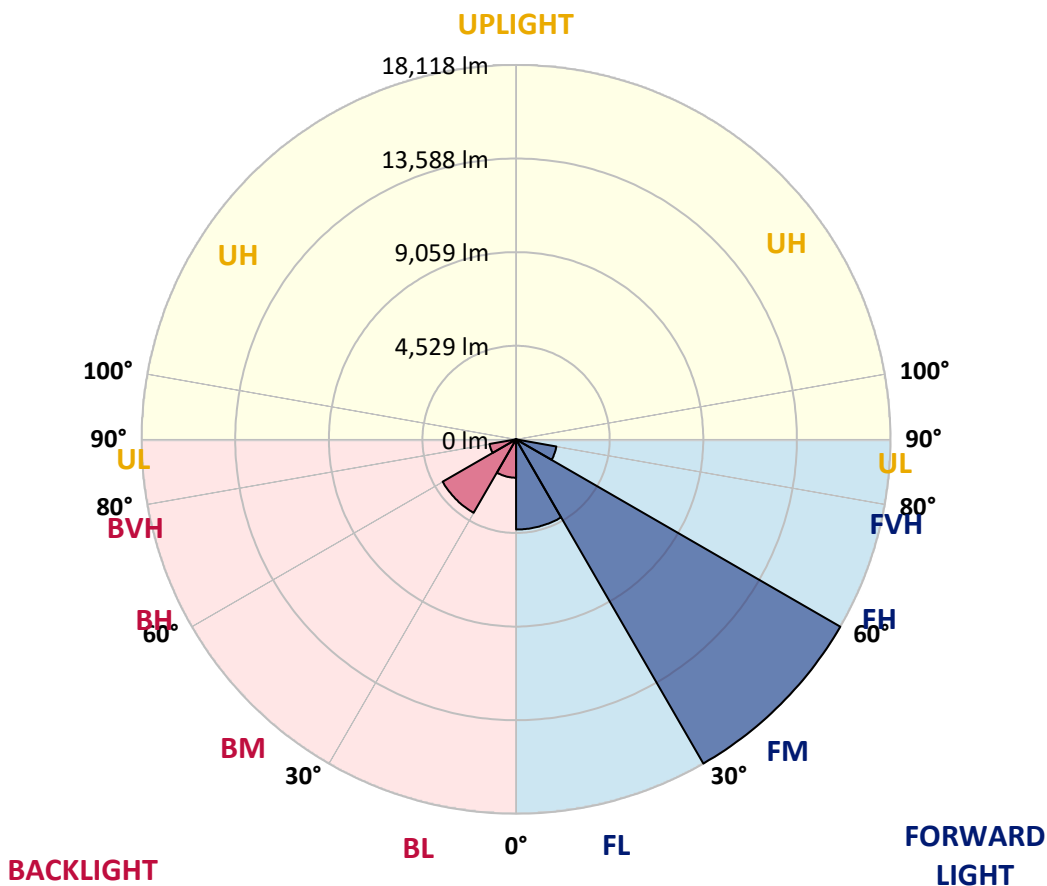
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4361.5	13.7			
FM (30°-60°)	18117.8	57.0			
FH (60°-80°)	1981.1	6.2			G2/5000
FVH (80°-90°)	30.5	0.1			G1/100
BL (0°-30°)	1857.8	5.8	B3/2500		
BM (30°-60°)	4105.1	12.9	B3/5000		
BH (60°-80°)	1305.9	4.1	B3/2500		G3/2500
BVH (80°-90°)	47.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P642838

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0
2.5°	6244.0	6290.6	6218.1	6223.3	6041.9	5959.0	5725.8	5588.5	5497.8	5243.9	5013.3
5°	7503.2	7448.7	7391.7	7358.1	7200.0	6977.2	6687.0	6456.4	6244.0	5746.5	5267.2
7.5°	8275.2	8246.7	8207.9	8187.1	8031.7	7798.5	7508.3	7311.4	7003.1	6329.5	5575.5
10°	8930.7	8897.0	8873.7	8889.3	8762.3	8612.0	8296.0	8070.6	7723.4	6946.1	5948.6
12.5°	9438.5	9456.7	9464.4	9547.4	9492.9	9402.3	9075.8	8837.5	8451.4	7596.4	6386.5
15°	9840.1	9834.9	9925.6	10083.7	10171.8	10114.8	9853.1	9653.6	9182.0	8236.4	6858.0
17.5°	9933.4	9938.6	10081.1	10358.3	10645.9	10785.8	10638.1	10399.7	9933.4	8868.5	7347.7
20°	10008.5	10018.9	10166.6	10482.7	10902.4	11293.6	11316.9	11145.9	10744.3	9552.5	7845.2
22.5°	10482.7	10506.0	10544.8	10744.3	11122.6	11617.5	11889.5	11853.2	11516.4	10270.2	8381.5
25°	11728.9	11658.9	11469.8	11412.8	11557.9	11959.4	12423.2	12493.2	12327.4	11060.4	8959.2
27.5°	13267.8	13192.7	12912.9	12617.5	12304.0	12443.9	12938.8	13148.7	13151.2	11931.0	9539.6
30°	14664.3	14604.7	14376.7	13954.4	13412.9	13210.8	13576.2	13858.6	14027.0	12936.2	10200.2
32.5°	15858.7	15804.3	15496.0	15151.4	14622.9	14216.1	14348.2	14620.3	15014.1	14236.8	11021.6
35°	16864.0	16809.6	16514.2	16167.0	15677.3	15433.8	15387.2	15573.7	16084.1	15594.4	11964.6
37.5°	17680.1	17625.7	17317.4	16990.9	16617.8	16633.4	16703.3	16794.0	17086.8	17047.9	12972.5
40°	18208.6	18151.6	17931.4	17698.2	17462.5	17649.0	17996.2	17887.4	18042.8	18221.6	13900.0
42.5°	18444.4	18371.8	18244.9	18193.1	18120.5	18410.7	19079.2	18970.3	18783.8	19004.0	14589.2
45°	18208.6	18146.4	18143.9	18301.9	18470.3	18843.4	19827.9	19739.8	19268.3	19382.3	15001.1
47.5°	17485.8	17431.4	17579.0	17993.6	18408.1	18952.2	20162.1	20177.7	19612.9	19540.3	15268.0
50°	15923.5	15887.2	16314.7	17099.7	17814.8	18612.8	20055.9	20234.7	19695.8	19491.1	15234.3
52.5°	12747.1	12915.5	13845.6	15156.6	16545.3	18016.9	19662.1	19895.3	19296.8	19167.2	15052.9
55°	8726.0	8803.8	9733.9	11648.5	13850.8	16726.6	18757.9	19118.0	18825.3	19112.8	15242.1
57.5°	4518.5	4580.7	5313.9	7013.5	9394.5	13218.6	16247.3	17428.8	17874.4	19387.5	15830.2
60°	1855.1	1906.9	2210.0	3031.3	4738.7	7697.5	11692.6	13444.0	14490.7	17706.0	14058.1
62.5°	1347.3	1373.2	1518.2	1808.4	2482.1	3772.3	6617.1	7262.2	7998.0	11096.7	8925.5
65°	1134.8	1163.3	1279.9	1456.1	1811.0	2313.6	2826.6	2842.2	3132.4	4521.1	3308.5
67.5°	950.8	976.8	1080.4	1230.7	1463.8	1642.6	1518.2	1520.8	1515.7	1640.0	1585.6
70°	741.0	761.7	865.4	1026.0	1147.8	1054.5	1186.6	1313.6	1259.2	1308.4	1383.5
72.5°	541.5	564.8	655.5	777.3	746.2	751.4	961.2	1090.8	1059.7	1114.1	1184.0
75°	391.2	406.8	453.4	388.6	409.4	494.9	676.2	746.2	777.3	823.9	886.1
77.5°	127.0	127.0	142.5	178.8	222.8	274.6	344.6	373.1	419.7	471.5	515.6
80°	64.8	67.4	80.3	98.5	124.4	158.0	202.1	215.0	238.4	266.9	285.0
82.5°	31.1	33.7	38.9	49.2	64.8	82.9	111.4	124.4	139.9	158.0	171.0
85°	7.8	7.8	10.4	15.5	20.7	31.1	41.5	49.2	62.2	75.1	82.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	7.8	10.4	13.0	15.5	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P642838

CATALOG NUMBER: GWS-SA6D-760-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0	4819.0
2.5°	4909.7	4764.6	4578.1	4420.0	4274.9	4163.5	4067.7	4021.0	3977.0	3945.9	3956.3
5°	5044.4	4795.7	4448.5	4207.6	4059.9	3984.8	3932.9	3907.0	3901.8	3881.1	3873.3
7.5°	5241.3	4886.4	4422.6	4179.1	4080.6	4041.8	4013.3	3997.7	4005.5	3984.8	3977.0
10°	5484.9	5036.6	4487.4	4272.3	4186.8	4158.3	4127.3	4106.5	4096.2	4065.1	4059.9
12.5°	5788.0	5223.2	4604.0	4391.5	4306.0	4256.8	4215.3	4179.1	4155.8	4116.9	4106.5
15°	6114.5	5430.5	4741.3	4508.1	4407.1	4334.5	4267.2	4212.8	4171.3	4119.5	4111.7
17.5°	6469.4	5648.1	4855.3	4588.4	4458.9	4363.0	4264.6	4184.3	4127.3	4059.9	4052.1
20°	6839.9	5868.3	4940.8	4627.3	4461.5	4331.9	4199.8	4093.6	4021.0	3953.7	3948.5
22.5°	7223.3	6070.4	4992.6	4616.9	4420.0	4259.4	4101.3	3982.2	3896.7	3816.3	3811.2
25°	7609.4	6264.7	5005.6	4575.5	4337.1	4150.6	3992.5	3852.6	3756.8	3666.1	3655.7
27.5°	8000.6	6427.9	4974.5	4492.6	4225.7	4023.6	3865.6	3728.3	3629.8	3539.1	3523.6
30°	8417.7	6567.9	4907.1	4383.7	4096.2	3888.9	3733.4	3629.8	3536.5	3445.9	3430.3
32.5°	8863.4	6689.6	4811.2	4251.6	3945.9	3754.2	3640.2	3546.9	3453.6	3373.3	3357.8
35°	9394.5	6769.9	4668.7	4080.6	3806.0	3655.7	3578.0	3469.2	3355.2	3267.1	3259.3
37.5°	9943.8	6832.1	4497.7	3917.4	3684.2	3598.7	3533.9	3386.3	3243.8	3137.5	3124.6
40°	10474.9	6883.9	4285.3	3764.5	3572.8	3557.3	3469.2	3285.2	3039.1	2919.9	2909.5
42.5°	10969.7	6899.5	4062.5	3601.3	3471.8	3464.0	3365.5	3080.5	2891.4	2816.3	2805.9
45°	11309.1	6886.5	3831.9	3448.4	3370.7	3329.3	3225.6	2932.9	2816.3	2748.9	2736.0
47.5°	11560.5	6819.2	3572.8	3287.8	3256.7	3199.7	2976.9	2839.6	2730.8	2663.4	2650.5
50°	11516.4	6539.4	3311.1	3132.4	3119.4	3070.2	2795.5	2723.0	2627.1	2554.6	2544.2
52.5°	11288.4	6008.2	3044.3	2961.4	2987.3	2891.4	2666.0	2583.1	2500.2	2417.3	2399.1
55°	11345.4	5624.8	2842.2	2795.5	2842.2	2624.5	2520.9	2432.8	2355.1	2274.8	2259.2
57.5°	11594.1	5246.5	2627.1	2616.8	2666.0	2419.9	2334.4	2223.0	2111.6	2046.8	2046.8
60°	9736.5	3824.1	2248.9	2274.8	2386.2	2254.1	2178.9	2064.9	1943.2	1886.2	1886.2
62.5°	5756.9	2399.1	1865.4	1836.9	1906.9	1989.8	2031.2	1938.0	1792.9	1717.7	1720.3
65°	2536.5	1746.2	1645.2	1621.9	1601.2	1658.2	1772.2	1779.9	1627.1	1539.0	1541.6
67.5°	1562.3	1580.4	1539.0	1520.8	1502.7	1492.3	1482.0	1487.2	1445.7	1365.4	1362.8
70°	1409.4	1458.7	1430.2	1414.6	1391.3	1373.2	1311.0	1209.9	1140.0	1119.3	1142.6
72.5°	1212.5	1279.9	1264.3	1256.6	1228.1	1184.0	1101.1	1002.7	919.8	867.9	878.3
75°	914.6	969.0	976.8	979.3	948.3	906.8	821.3	738.4	665.9	611.4	624.4
77.5°	525.9	557.0	564.8	572.6	549.3	533.7	476.7	417.1	378.3	321.3	336.8
80°	292.8	305.7	305.7	308.3	295.4	277.2	238.4	204.7	186.5	160.6	163.2
82.5°	176.2	181.4	184.0	186.5	178.8	160.6	132.1	108.8	98.5	85.5	82.9
85°	85.5	90.7	90.7	93.3	80.3	70.0	54.4	41.5	36.3	25.9	28.5
87.5°	20.7	23.3	23.3	20.7	18.1	13.0	7.8	2.6	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)