

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: P638397

Luminaire Tested: GWS-SA4E-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638397  
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-SA4E-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

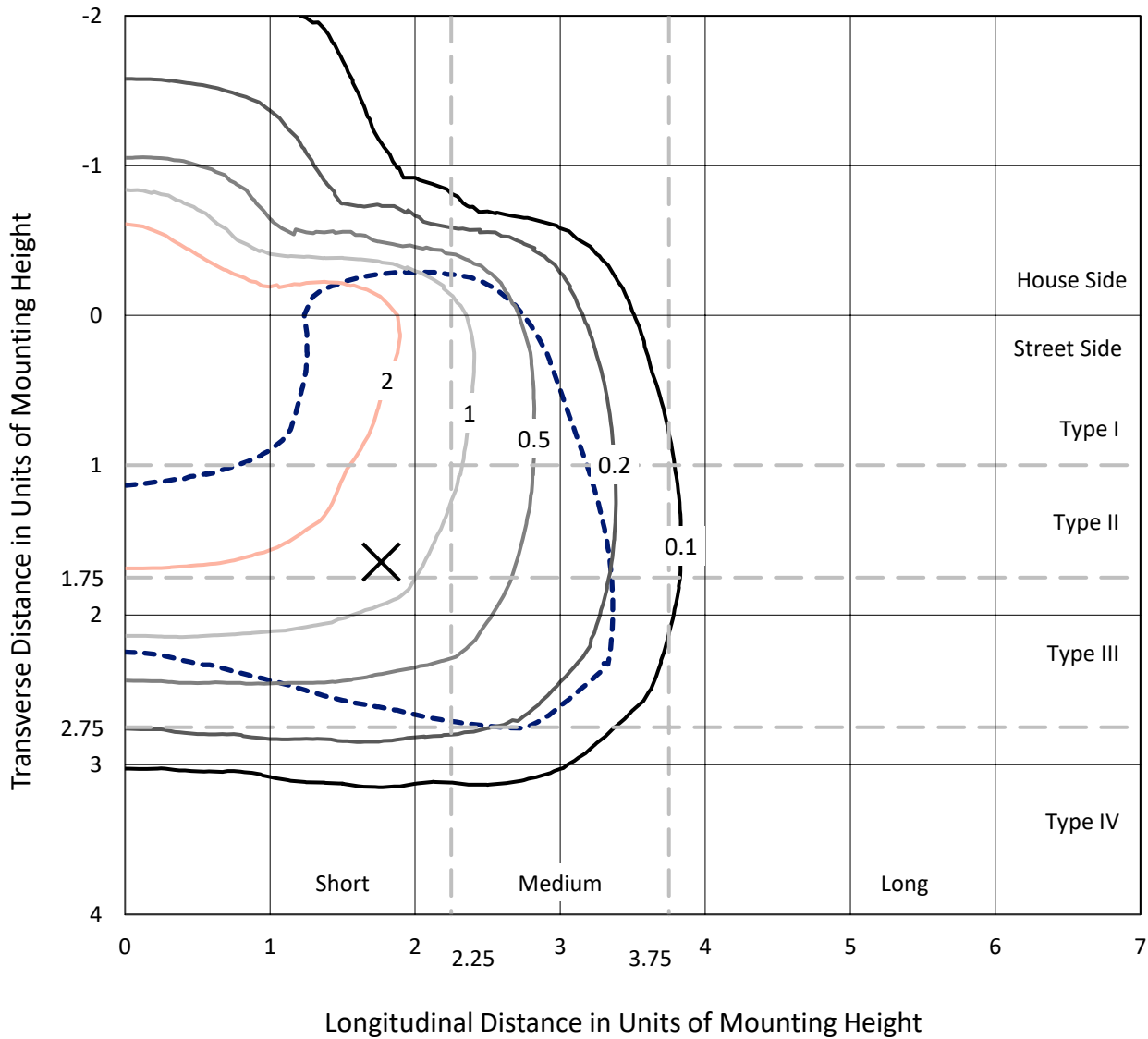
Lumens per Lamp: N/A  
Luminaire Lumens: 30610.4 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

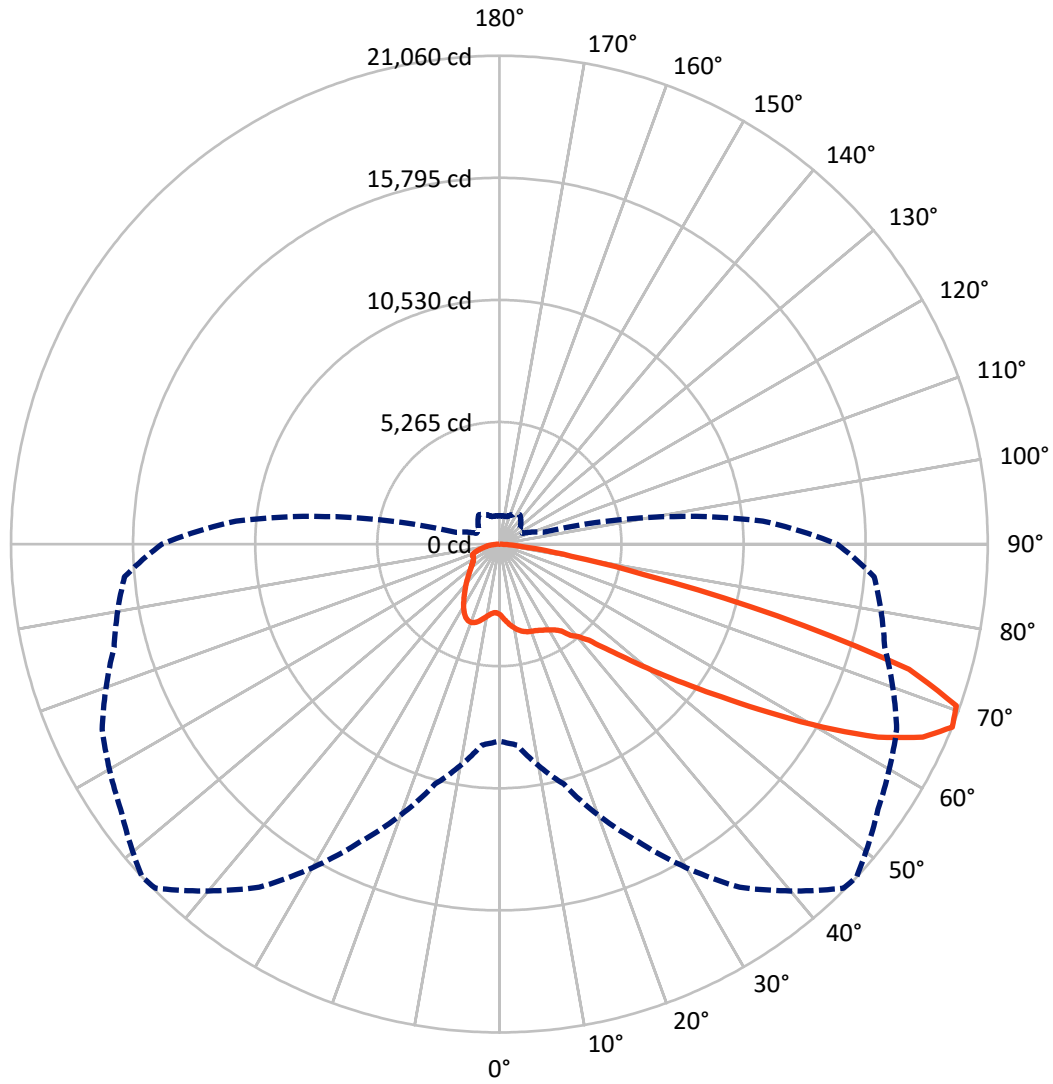
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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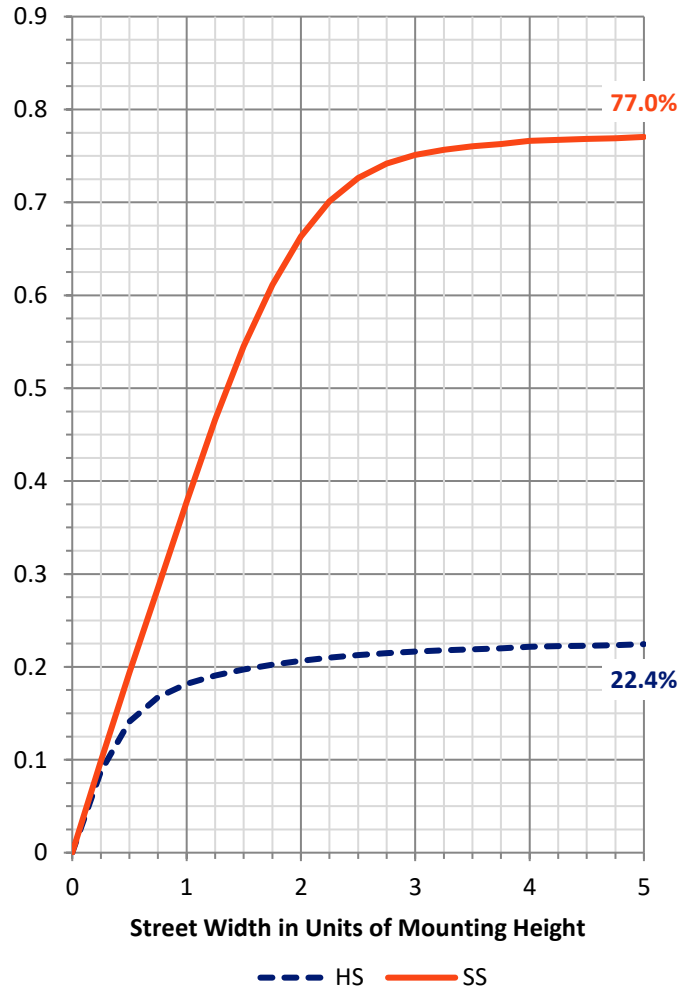
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6976.3	0.0	6976.3
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	23634.0	0.0	23634.0
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	30610.4	0.0	30610.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.1	1.0
10°-20°	1033.2	3.4
20°-30°	1756.2	5.7
30°-40°	2572.7	8.4
40°-50°	3919.7	12.8
50°-60°	7013.3	22.9
60°-70°	9358.4	30.6
70°-80°	4232.1	13.8
80°-90°	414.6	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°	30610.4	100.0
0°-180°	30610.4	100.0

**Coefficient of Utilization**



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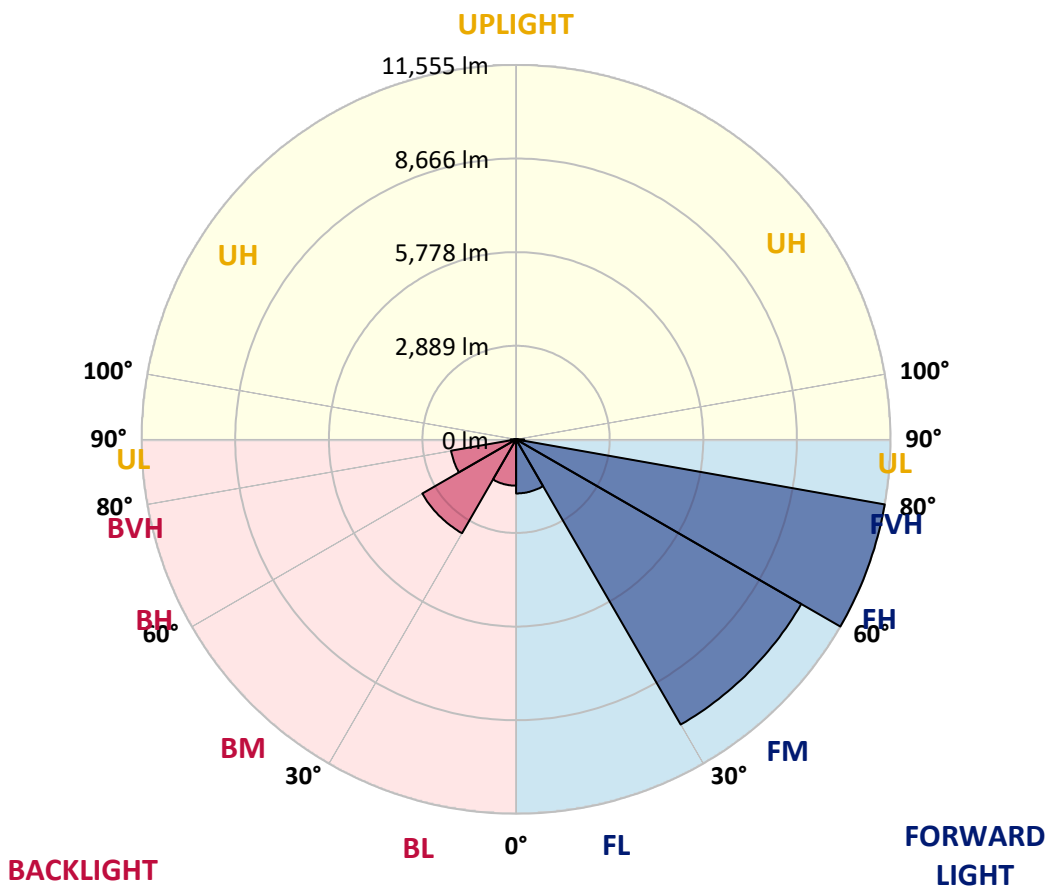
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.4	5.5			
FM (30°-60°)	10163.0	33.2			
FH (60°-80°)	11555.1	37.7			G4/12000
FVH (80°-90°)	246.6	0.8			G3/500
BL (0°-30°)	1430.2	4.7	B3/2500		
BM (30°-60°)	3342.7	10.9	B3/5000		
BH (60°-80°)	2035.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	168.0	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5
2.5°	3235.9	3246.9	3244.7	3227.0	3216.0	3196.0	3198.2	3167.3	3120.8	3089.8	3054.4
5°	3521.4	3539.1	3517.0	3488.2	3443.9	3379.7	3373.1	3302.3	3213.7	3151.8	3087.6
7.5°	3769.3	3780.3	3753.8	3705.1	3640.9	3554.6	3539.1	3455.0	3344.3	3246.9	3154.0
10°	3961.8	3975.1	3939.7	3875.5	3791.4	3705.1	3694.0	3607.7	3490.4	3375.3	3258.0
12.5°	4125.6	4130.1	4092.4	4006.1	3915.4	3826.8	3815.8	3736.1	3627.6	3510.3	3382.0
15°	4220.8	4223.0	4176.5	4081.4	3995.0	3917.6	3910.9	3842.3	3742.7	3632.1	3494.8
17.5°	4214.2	4218.6	4185.4	4101.3	4026.0	3979.5	3972.9	3928.6	3851.2	3751.6	3614.3
20°	4132.3	4136.7	4114.6	4059.2	4019.4	4006.1	4008.3	3995.0	3948.6	3866.7	3727.2
22.5°	4068.1	4074.7	4054.8	4015.0	4010.5	4041.5	4048.2	4054.8	4032.7	3959.6	3824.6
25°	4099.1	4110.1	4079.1	4023.8	4032.7	4101.3	4114.6	4136.7	4119.0	4057.0	3939.7
27.5°	4313.8	4320.4	4240.7	4127.8	4101.3	4174.3	4194.2	4229.7	4216.4	4158.8	4068.1
30°	4811.8	4807.3	4636.9	4360.2	4249.6	4278.3	4293.8	4344.7	4349.2	4311.5	4225.2
32.5°	5513.4	5491.2	5227.9	4787.4	4466.5	4395.7	4413.4	4482.0	4532.9	4493.0	4375.7
35°	6254.8	6234.9	5945.0	5429.3	4867.1	4621.4	4601.5	4654.6	4732.1	4621.4	4453.2
37.5°	6960.9	6929.9	6633.3	5995.9	5360.7	5017.6	4988.8	4935.7	4889.2	4676.7	4548.4
40°	7744.4	7709.0	7450.0	6728.5	5905.1	5320.8	5247.8	5037.5	4995.5	4860.4	4796.3
42.5°	8581.0	8581.0	8366.3	7655.9	6562.5	5754.6	5659.5	5343.0	5387.2	5298.7	5223.4
45°	9417.7	9442.0	9271.6	8589.9	7441.2	6573.6	6420.8	5971.5	6077.8	6037.9	6000.3
47.5°	10130.4	10176.8	10143.6	9543.8	8516.8	7569.5	7337.2	6870.1	7098.1	7193.3	7299.5
50°	10898.4	10949.3	10916.1	10679.3	9776.2	8775.8	8567.8	8085.3	8477.0	8762.5	9110.0
52.5°	12038.2	12111.3	11834.6	11743.9	11305.6	10145.9	9959.9	9411.0	10121.5	10595.2	11369.8
55°	13001.0	12998.8	12901.4	13109.5	12947.9	11821.3	11615.5	11117.5	12025.0	12527.4	13660.6
57.5°	13448.1	13501.2	13835.5	14424.2	14747.3	13868.7	13671.7	13162.6	14067.9	14329.0	15553.0
60°	13678.3	13744.7	14391.0	15555.2	16425.0	16104.1	16026.6	15378.1	15887.2	15856.2	17148.8
62.5°	13355.2	13488.0	14526.0	16073.1	17622.4	18350.6	18326.3	17345.8	17434.3	17131.1	18138.1
65°	11872.2	12016.1	13645.1	15814.2	18306.4	20059.3	20065.9	19127.5	18622.9	17750.8	17972.1
67.5°	8490.3	8696.1	10710.2	14149.7	18065.1	20982.3	21059.7	19935.4	18901.7	17201.9	16228.0
70°	4628.0	4778.6	6356.7	10285.3	15891.6	20760.9	20904.8	19545.8	17671.1	14880.1	12492.0
72.5°	2102.7	2151.3	2957.0	5644.0	10856.3	17870.3	18472.4	17443.2	14512.7	10991.3	7943.6
75°	962.8	984.9	1288.2	2700.2	5672.7	11958.6	12381.3	12992.2	10099.4	6941.0	4141.1
77.5°	604.2	610.9	732.6	1235.0	2828.6	5969.3	6414.2	7735.5	5914.0	3435.1	1730.8
80°	356.3	363.0	455.9	668.4	1328.0	2731.2	3154.0	3058.8	2779.9	1482.9	787.9
82.5°	179.3	185.9	263.4	380.7	723.8	1086.7	1279.3	1285.9	1035.8	803.4	444.9
85°	64.2	66.4	86.3	150.5	307.7	358.6	400.6	489.1	506.8	467.0	214.7
87.5°	0.0	0.0	2.2	4.4	8.9	35.4	37.6	70.8	148.3	166.0	86.3
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°	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5	3034.5
2.5°	3043.3	3010.1	2999.0	2988.0	2970.3	2963.6	2950.4	2937.1	2937.1	2923.8	2917.2
5°	3058.8	3014.5	2985.8	2972.5	2961.4	2968.1	2968.1	2972.5	2988.0	2979.1	2983.6
7.5°	3114.1	3063.2	3023.4	3012.3	3012.3	3038.9	3056.6	3078.7	3107.5	3111.9	3111.9
10°	3211.5	3151.8	3109.7	3103.1	3114.1	3151.8	3178.3	3204.9	3240.3	3242.5	3246.9
12.5°	3317.8	3258.0	3216.0	3224.8	3235.9	3284.6	3313.3	3335.5	3370.9	3370.9	3368.7
15°	3428.4	3362.0	3326.6	3344.3	3377.5	3432.9	3437.3	3439.5	3457.2	3452.8	3450.6
17.5°	3543.5	3472.7	3446.1	3472.7	3508.1	3534.7	3512.5	3481.5	3474.9	3466.1	3461.6
20°	3656.4	3583.4	3572.3	3592.2	3603.3	3581.1	3512.5	3455.0	3428.4	3415.2	3410.7
22.5°	3753.8	3691.8	3685.2	3685.2	3629.8	3552.4	3450.6	3373.1	3337.7	3320.0	3315.6
25°	3868.9	3811.3	3800.3	3740.5	3598.9	3457.2	3320.0	3249.2	3220.4	3211.5	3213.7
27.5°	4003.9	3964.1	3928.6	3758.2	3510.3	3289.0	3134.1	3103.1	3092.0	3103.1	3109.7
30°	4169.9	4130.1	4050.4	3736.1	3368.7	3069.9	2921.6	2919.4	2952.6	2981.3	2985.8
32.5°	4304.9	4287.2	4156.6	3665.3	3169.5	2828.6	2702.5	2711.3	2771.1	2810.9	2817.6
35°	4411.1	4439.9	4245.1	3547.9	2932.6	2600.6	2501.0	2505.5	2538.7	2594.0	2596.2
37.5°	4561.6	4659.0	4324.8	3368.7	2660.4	2403.7	2312.9	2279.7	2275.3	2290.8	2295.2
40°	4864.9	5011.0	4382.4	3107.5	2397.0	2226.6	2124.8	2060.6	2005.3	1963.2	1949.9
42.5°	5323.0	5491.2	4415.6	2791.0	2162.4	2051.7	1936.7	1854.8	1757.4	1668.8	1637.9
45°	6164.1	6219.4	4415.6	2454.6	1954.4	1888.0	1772.9	1675.5	1551.5	1447.5	1425.4
47.5°	7509.8	7332.7	4420.0	2129.2	1770.7	1744.1	1644.5	1533.8	1396.6	1310.3	1297.0
50°	9537.2	8915.2	4510.7	1859.2	1617.9	1622.4	1549.3	1427.6	1303.6	1239.5	1228.4
52.5°	11834.6	10865.2	4754.2	1660.0	1489.6	1522.8	1482.9	1365.6	1255.0	1199.6	1188.6
55°	13994.8	12658.0	4962.3	1518.3	1381.1	1438.7	1436.4	1328.0	1228.4	1173.1	1166.4
57.5°	15831.9	13886.4	4931.3	1403.2	1288.2	1361.2	1394.4	1303.6	1210.7	1164.2	1157.6
60°	16973.9	14537.1	4490.8	1297.0	1217.3	1305.9	1370.0	1297.0	1219.5	1208.5	1210.7
62.5°	17469.7	14417.6	3645.3	1217.3	1170.8	1279.3	1396.6	1343.5	1301.4	1328.0	1343.5
65°	16699.5	13390.6	2682.5	1157.6	1126.6	1285.9	1458.6	1416.5	1301.4	1319.1	1325.8
67.5°	14561.4	11398.6	1938.9	1097.8	1071.2	1305.9	1547.1	1405.5	1226.2	1226.2	1212.9
70°	10493.3	8198.1	1407.7	1038.0	1015.9	1277.1	1551.5	1330.2	1139.9	1133.2	1100.0
72.5°	6314.6	4836.1	1097.8	971.6	931.8	1133.2	1454.2	1241.7	1055.8	1000.4	960.6
75°	3280.1	2423.6	920.7	898.6	799.0	960.6	1330.2	1104.4	903.0	854.3	832.2
77.5°	1405.5	1133.2	790.2	801.2	664.0	807.9	1073.5	956.2	801.2	739.2	719.3
80°	692.8	644.1	624.2	641.9	531.2	624.2	925.2	836.6	679.5	608.7	579.9
82.5°	396.2	376.3	449.3	455.9	378.5	522.3	781.3	708.3	562.2	484.7	438.2
85°	183.7	197.0	272.2	274.5	234.6	358.6	511.3	398.4	298.8	247.9	236.8
87.5°	73.0	86.3	119.5	117.3	68.6	66.4	44.3	24.3	19.9	17.7	15.5
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)