

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: P638281

Luminaire Tested: GWS-SA4E-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

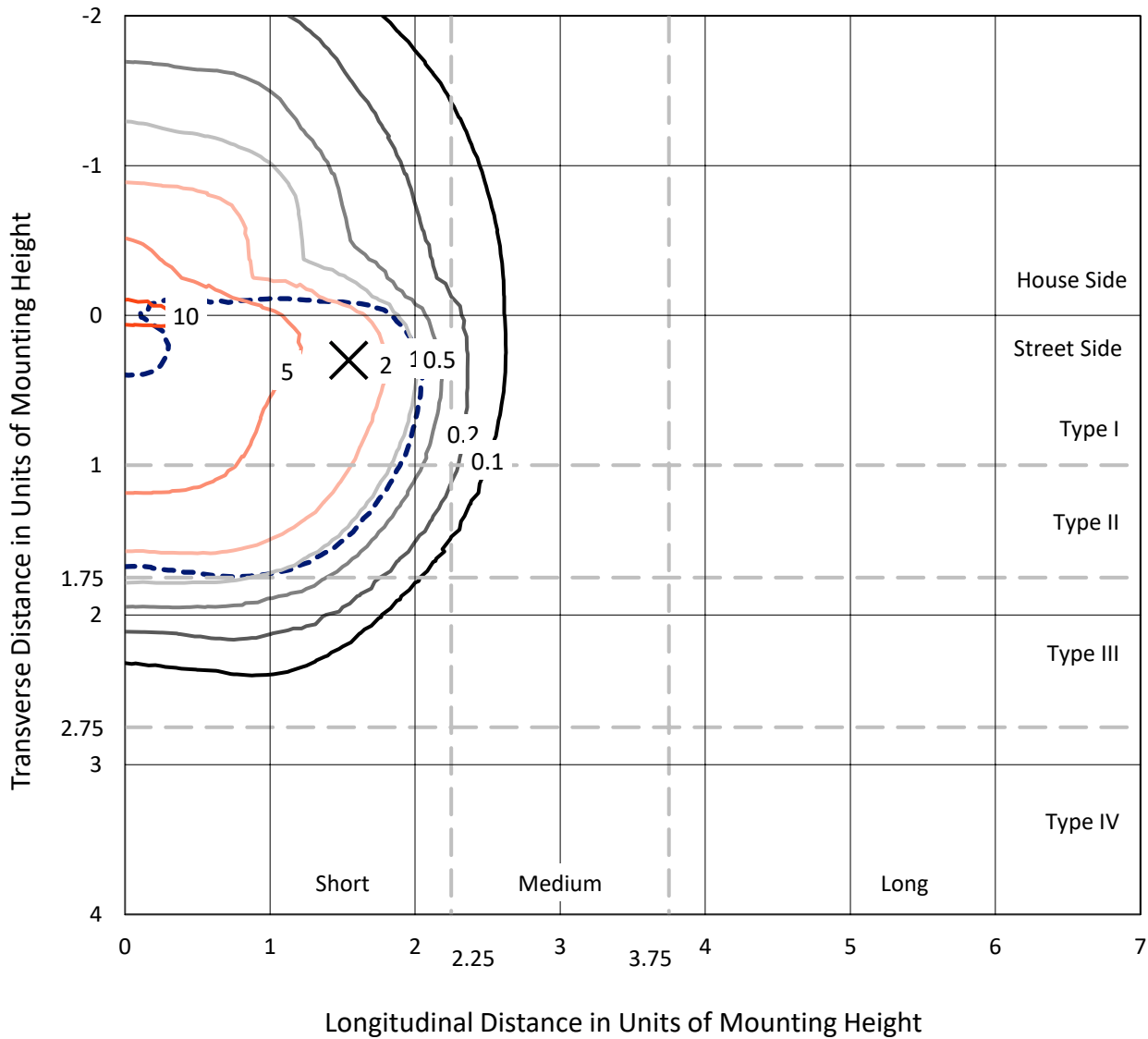
Lumens per Lamp: N/A  
Luminaire Lumens: 26830.3 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

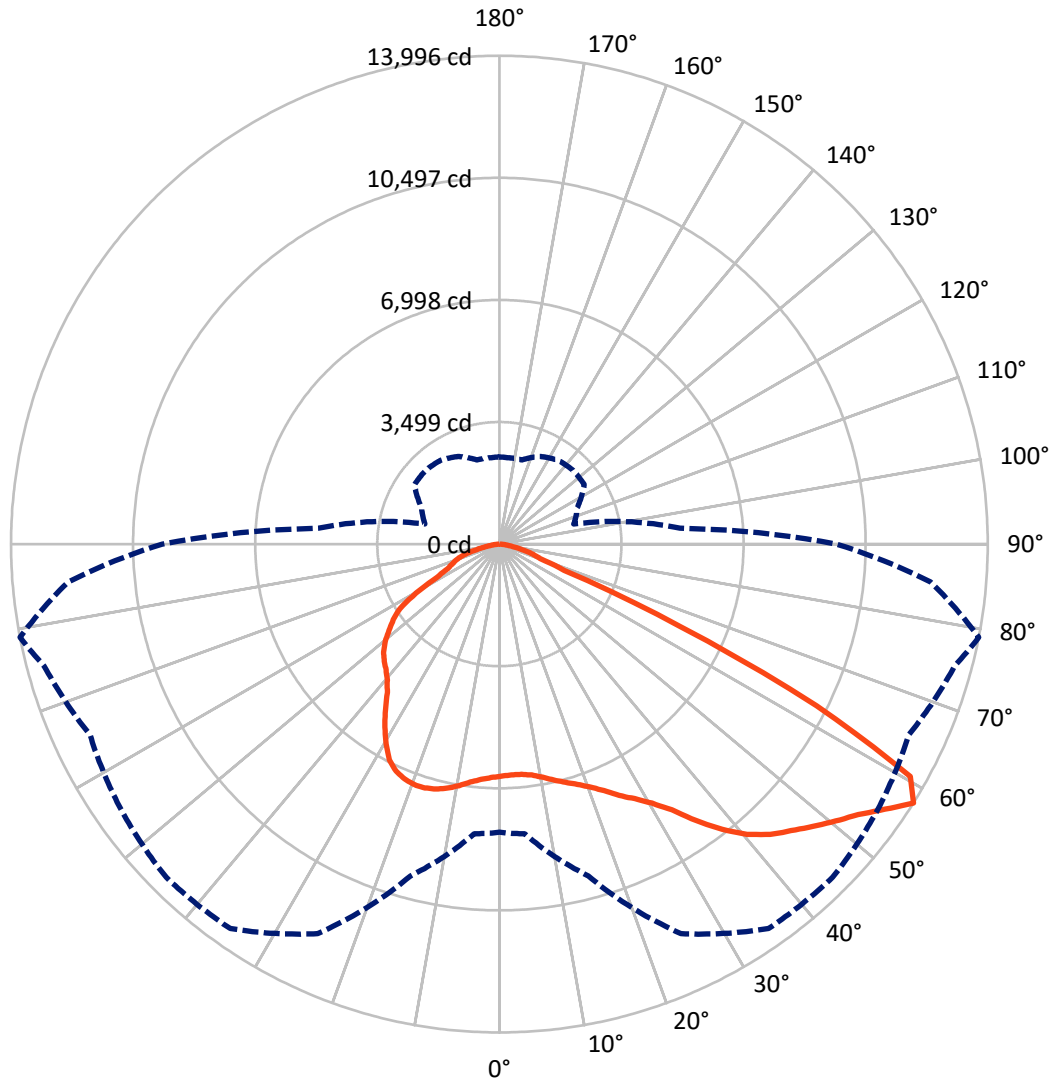
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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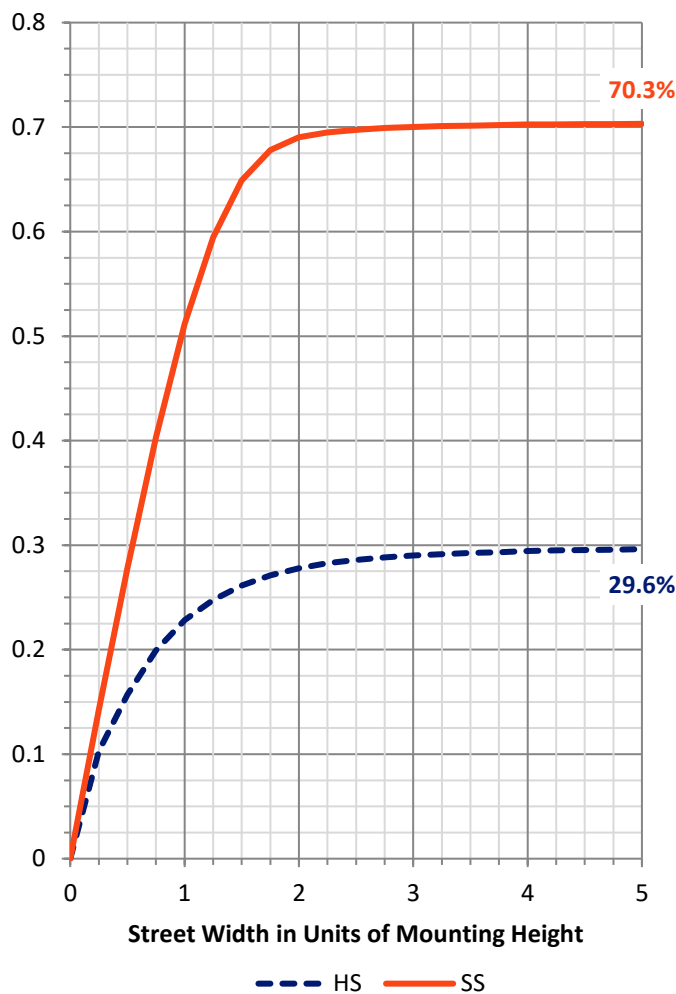
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7975.4	0.0	7975.4
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	18854.9	0.0	18854.9
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	26830.3	0.0	26830.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.8	2.3
10°-20°	1711.2	6.4
20°-30°	2900.6	10.8
30°-40°	4439.7	16.5
40°-50°	5920.0	22.1
50°-60°	6837.1	25.5
60°-70°	3552.8	13.2
70°-80°	755.2	2.8
80°-90°	97.8	0.4
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°	26830.3	100.0
0°-180°	26830.3	100.0

**Coefficient of Utilization**



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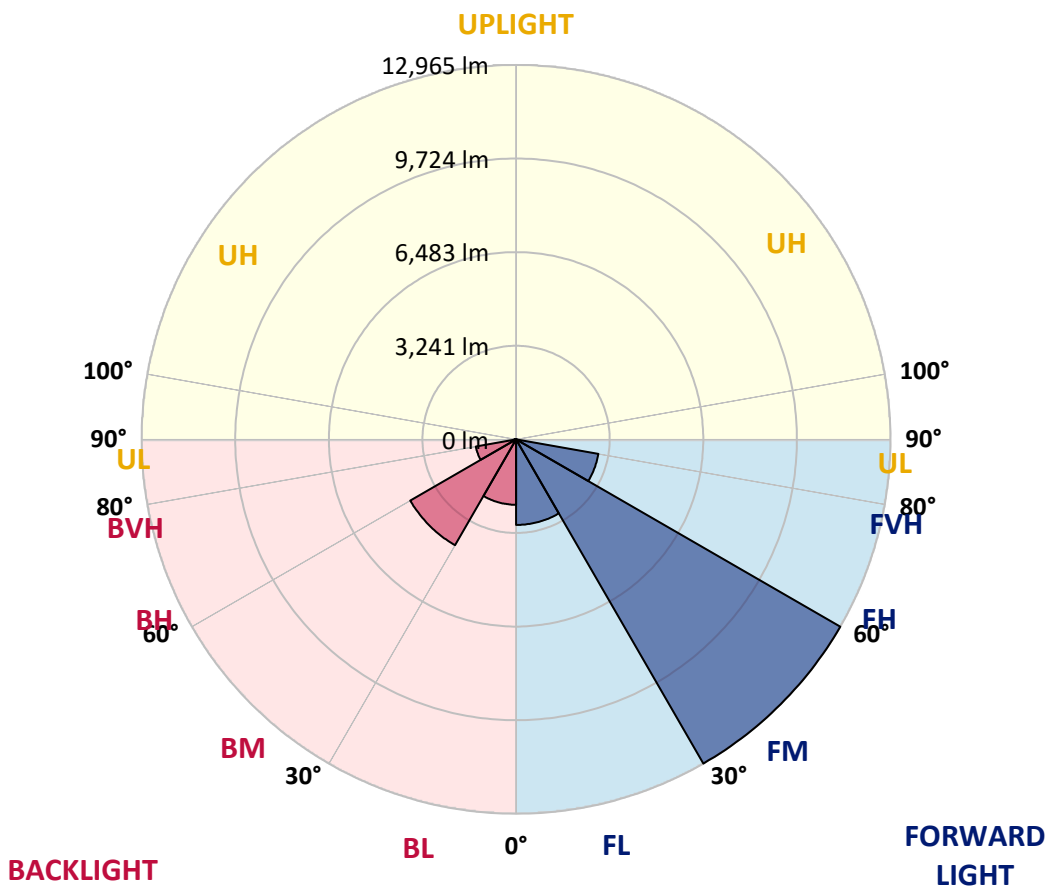
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2962.7	11.0			
FM (30°-60°)	12965.2	48.3			
FH (60°-80°)	2893.0	10.8			G2/5000
FVH (80°-90°)	34.1	0.1			G1/100
BL (0°-30°)	2264.9	8.4	B3/2500		
BM (30°-60°)	4231.7	15.8	B3/5000		
BH (60°-80°)	1415.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	63.7	0.2			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2
2.5°	6346.4	6333.3	6337.7	6355.2	6421.0	6469.3	6519.7	6565.8	6609.7	6622.8	6633.8
5°	6120.5	6096.4	6102.9	6131.5	6208.2	6289.4	6379.3	6489.0	6594.3	6629.4	6675.5
7.5°	5960.3	5956.0	5966.9	6010.8	6092.0	6168.7	6285.0	6440.8	6622.8	6682.1	6763.2
10°	5747.5	5738.8	5782.6	5872.6	6006.4	6129.3	6267.5	6451.7	6706.2	6794.0	6919.0
12.5°	5578.6	5574.2	5620.3	5745.4	5916.5	6111.7	6302.6	6508.8	6818.1	6938.7	7092.3
15°	5677.4	5657.6	5659.8	5747.5	5901.1	6131.5	6390.3	6611.9	6930.0	7083.5	7281.0
17.5°	5964.7	5929.6	5903.3	5918.7	6006.4	6245.5	6524.1	6750.1	7059.4	7239.3	7480.6
20°	6361.8	6342.0	6269.7	6221.4	6241.1	6451.7	6734.7	6945.3	7228.3	7430.1	7689.0
22.5°	6894.9	6846.6	6747.9	6671.1	6611.9	6776.4	7037.5	7219.5	7463.0	7673.6	7943.5
25°	7555.2	7485.0	7329.2	7208.6	7081.3	7250.2	7482.8	7621.0	7785.5	7980.8	8237.4
27.5°	8228.6	8169.4	7996.1	7833.8	7675.8	7781.1	8057.5	8136.5	8119.0	8261.6	8480.9
30°	8946.0	8871.4	8706.9	8531.4	8327.4	8395.4	8643.3	8682.7	8496.3	8614.7	8763.9
32.5°	9702.8	9630.4	9487.8	9283.8	9053.5	9079.8	9147.8	9185.1	9007.4	9075.4	9189.5
35°	10472.8	10404.8	10260.0	10058.2	9889.3	9729.2	9558.0	9707.2	9604.1	9735.7	9727.0
37.5°	11177.0	11109.0	11019.1	10863.3	10573.7	10257.8	9863.0	10047.2	10207.4	10374.1	10345.6
40°	11653.0	11607.0	11628.9	11604.8	11231.9	10606.6	10012.1	10214.0	10650.5	10935.7	10920.3
42.5°	12063.3	12017.2	12144.4	12236.6	11797.8	10929.1	10084.5	10277.6	10933.5	11378.8	11356.9
45°	12245.4	12232.2	12442.8	12734.6	12315.6	11271.3	10271.0	10409.2	11148.5	11718.9	11635.5
47.5°	12028.2	12074.2	12488.9	12982.4	12745.5	11677.2	10652.7	10687.8	11429.3	12087.4	11852.7
50°	11596.0	11696.9	12256.3	12989.0	13059.2	12135.7	11181.4	11093.6	11806.6	12480.1	11966.7
52.5°	10966.4	11071.7	11984.3	12938.6	13239.1	12666.5	11885.6	11760.5	12282.6	12872.8	11986.5
55°	9520.7	9663.3	11361.3	12824.5	13414.6	13149.2	12679.7	12425.2	12896.9	13412.4	12181.7
57.5°	8259.4	8333.9	9843.2	12317.7	13449.7	13504.5	13245.7	12943.0	13506.7	13995.9	12401.1
60°	6061.3	6078.8	7436.7	10192.0	12372.6	13298.3	13199.6	12749.9	13217.2	13528.7	11396.4
62.5°	3424.4	3426.6	4510.3	6802.7	9242.1	10839.2	10900.6	10503.5	10110.9	10203.0	7932.5
65°	1285.5	1406.2	2059.9	3343.2	5328.5	6399.1	6653.6	6745.7	6092.0	5686.1	4253.6
67.5°	859.9	888.5	1202.2	1719.9	2371.4	2737.8	3062.4	3071.2	2246.4	2002.9	1676.0
70°	655.9	684.4	945.5	1230.7	1202.2	1110.0	1200.0	1167.1	1206.5	1239.5	1274.6
72.5°	489.2	517.7	732.7	868.7	721.7	710.8	805.1	895.0	978.4	1013.5	1068.3
75°	324.7	346.6	493.6	465.1	399.3	471.7	587.9	677.9	726.1	767.8	809.5
77.5°	206.2	221.6	263.2	212.8	221.6	276.4	342.2	423.4	469.5	511.1	533.1
80°	94.3	92.1	89.9	100.9	125.0	162.3	206.2	254.5	289.6	307.1	320.3
82.5°	37.3	41.7	46.1	54.8	68.0	87.7	116.3	149.2	177.7	182.1	193.0
85°	15.4	17.5	19.7	24.1	30.7	39.5	48.3	68.0	85.6	92.1	98.7
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	6.6	11.0	19.7	21.9	24.1
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°	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2	6649.2
2.5°	6693.0	6664.5	6712.8	6745.7	6776.4	6743.5	6732.5	6704.0	6699.6	6699.6	6715.0
5°	6754.5	6734.7	6785.2	6804.9	6802.7	6730.3	6686.5	6629.4	6600.9	6600.9	6605.3
7.5°	6864.2	6853.2	6881.7	6851.0	6780.8	6633.8	6489.0	6368.4	6287.2	6245.5	6258.7
10°	7046.2	7033.1	7008.9	6894.9	6693.0	6388.1	6092.0	5872.6	5741.0	5666.4	5670.8
12.5°	7223.9	7202.0	7116.4	6864.2	6449.5	5964.7	5576.4	5330.7	5186.0	5098.2	5078.5
15°	7419.2	7362.1	7177.9	6706.2	6052.5	5447.0	5041.2	4775.7	4620.0	4567.3	4565.1
17.5°	7605.6	7504.7	7171.3	6425.4	5576.4	4905.2	4497.1	4332.6	4306.3	4330.4	4337.0
20°	7794.3	7632.0	7098.9	6037.1	5010.5	4365.5	4154.9	4222.9	4321.6	4387.4	4402.8
22.5°	7989.5	7737.3	6934.4	5537.0	4413.8	4001.3	4089.1	4238.3	4361.1	4448.9	4457.6
25°	8208.9	7836.0	6688.7	4924.9	3935.5	3900.4	4073.7	4231.7	4363.3	4464.2	4481.8
27.5°	8333.9	7838.2	6344.2	4295.3	3716.2	3860.9	4036.4	4185.6	4317.2	4426.9	4446.7
30°	8456.8	7778.9	5798.0	3784.2	3652.5	3814.9	3972.8	4111.0	4236.1	4343.6	4367.7
32.5°	8630.1	7724.1	5168.4	3490.2	3615.3	3771.0	3900.4	4023.3	4119.8	4168.1	4181.2
35°	8845.1	7653.9	4499.3	3363.0	3591.1	3735.9	3850.0	3915.8	3790.8	3764.4	3792.9
37.5°	9145.6	7588.1	3832.4	3308.1	3575.8	3722.7	3823.7	3654.7	3501.2	3439.8	3461.7
40°	9470.3	7550.8	3380.5	3264.3	3582.3	3735.9	3714.0	3463.9	3242.3	3112.9	3108.5
42.5°	9746.7	7493.8	3091.0	3235.7	3599.9	3786.4	3564.8	3295.0	2965.9	2889.1	2891.3
45°	9933.2	7349.0	2937.4	3205.0	3615.3	3797.3	3494.6	3062.4	2827.7	2779.4	2777.3
47.5°	10009.9	7085.7	2838.7	3156.8	3613.1	3707.4	3352.0	2965.9	2731.2	2718.0	2726.8
50°	9959.5	6653.6	2737.8	3062.4	3560.4	3613.1	3187.5	2880.4	2665.4	2737.8	2790.4
52.5°	9773.0	6094.2	2617.1	2933.0	3466.1	3505.6	3104.1	2827.7	2617.1	2713.6	2755.3
55°	9724.8	5640.1	2463.5	2764.1	3325.7	3314.7	3016.4	2801.4	2584.2	2546.9	2553.5
57.5°	9661.1	5196.9	2209.1	2461.4	2970.3	2987.8	2933.0	2770.7	2498.6	2487.7	2498.6
60°	8393.2	3983.8	1970.0	2123.5	2439.4	2533.7	2838.7	2713.6	2360.4	2314.4	2312.2
62.5°	5482.1	2413.1	1752.8	1851.5	1987.5	2097.2	2588.6	2549.1	2209.1	2180.6	2200.3
65°	2948.4	1719.9	1594.8	1654.1	1728.7	1812.0	2145.5	2270.5	1996.3	1895.4	1897.6
67.5°	1507.1	1463.2	1476.4	1518.1	1575.1	1616.8	1730.8	1840.5	1702.3	1616.8	1614.6
70°	1289.9	1325.0	1344.8	1368.9	1406.2	1399.6	1410.6	1430.3	1419.3	1377.7	1375.5
72.5°	1099.1	1153.9	1158.3	1162.7	1175.8	1145.1	1125.4	1092.5	1094.7	1101.2	1103.4
75°	835.8	888.5	901.6	895.0	908.2	868.7	842.4	809.5	770.0	763.4	767.8
77.5°	544.0	585.7	605.5	601.1	607.7	576.9	563.8	528.7	482.6	465.1	465.1
80°	329.1	353.2	368.5	372.9	379.5	357.6	335.6	304.9	285.2	265.4	265.4
82.5°	199.6	215.0	226.0	226.0	232.5	208.4	190.9	168.9	160.1	142.6	142.6
85°	100.9	111.9	116.3	114.1	109.7	89.9	83.4	72.4	68.0	59.2	59.2
87.5°	24.1	30.7	30.7	21.9	21.9	11.0	6.6	2.2	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)