

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: P638057

Luminaire Tested: GWS-SA4E-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-722-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

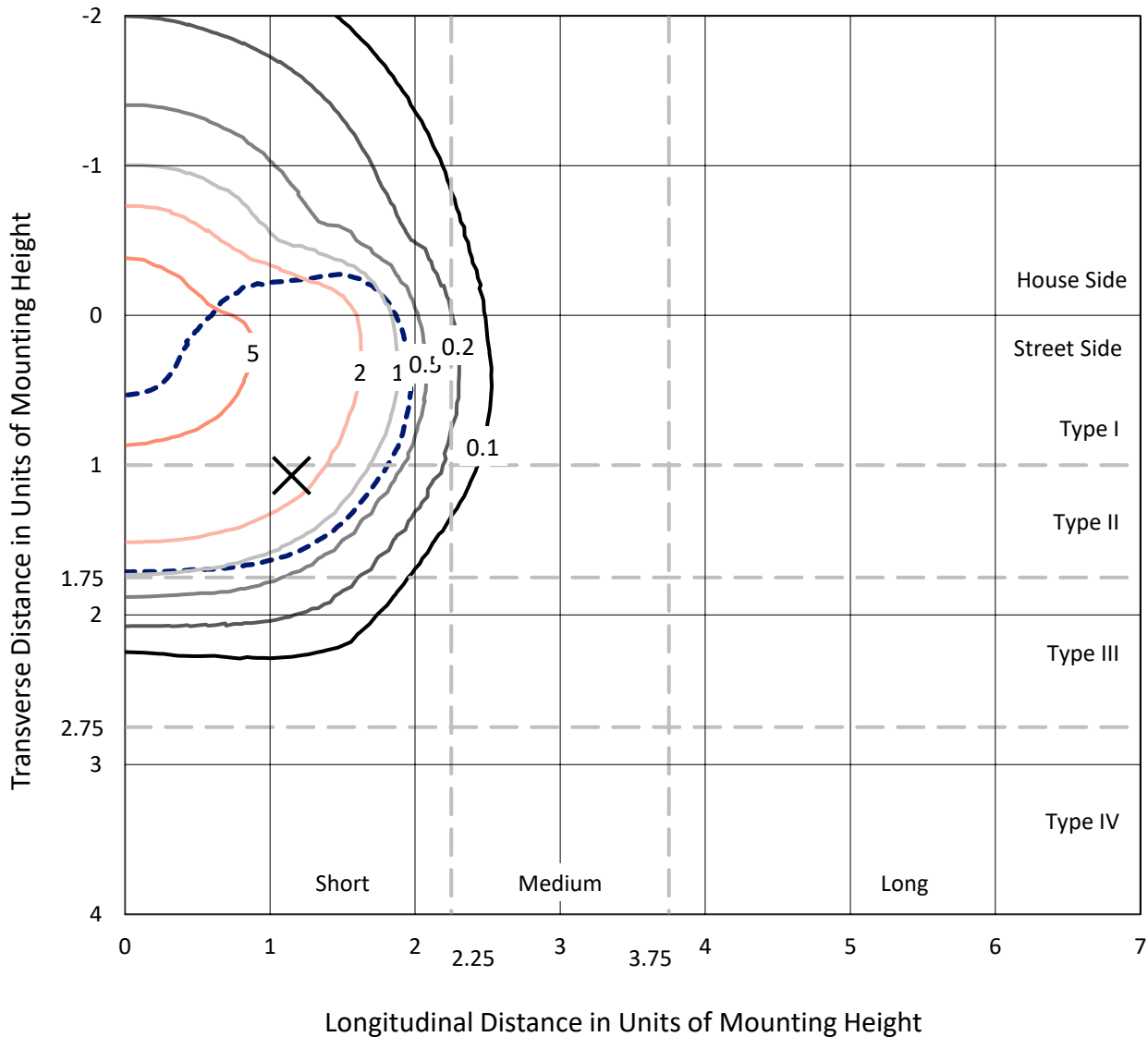
Lumens per Lamp: N/A  
Luminaire Lumens: 19239.5 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P638057  
 CATALOG NUMBER: GWS-SA4E-722-U-T3-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

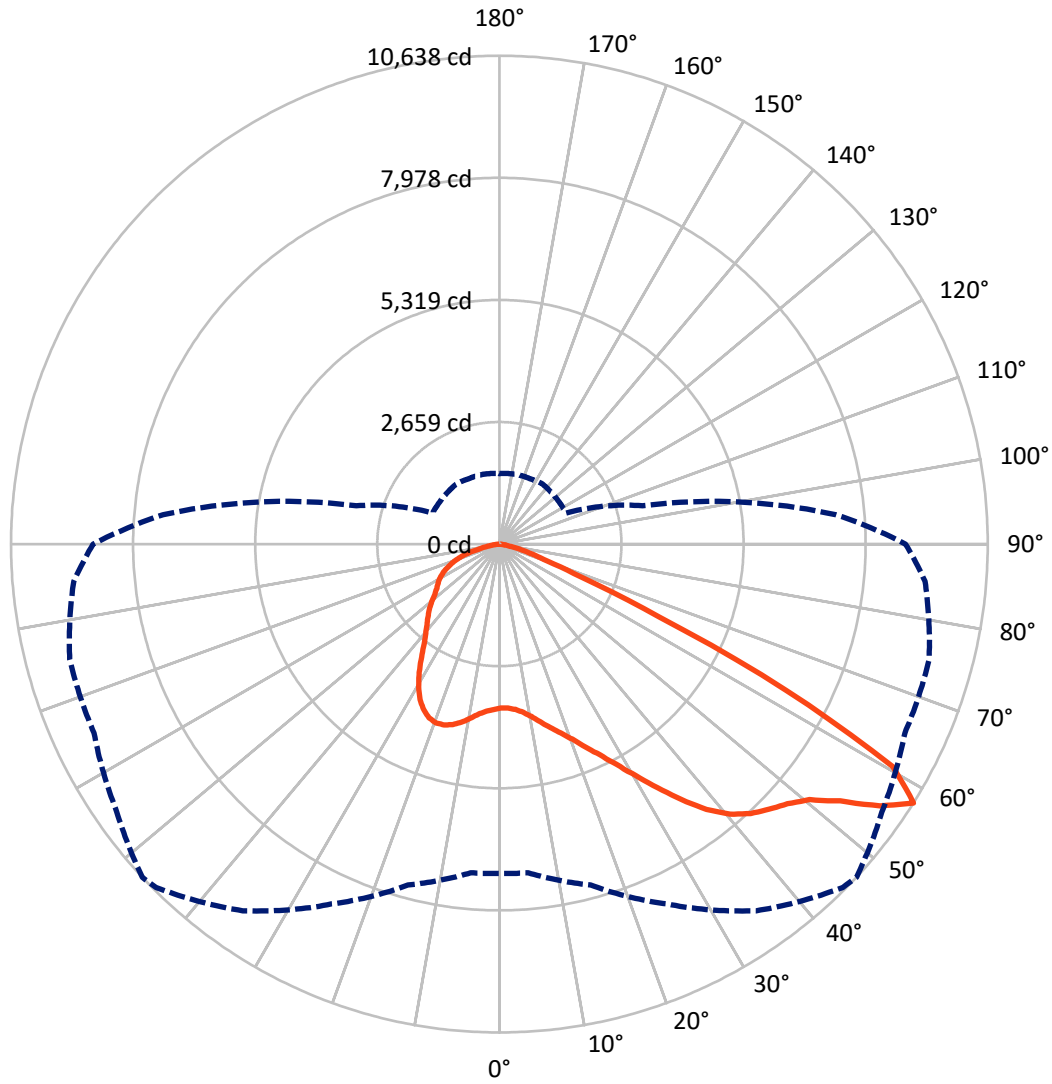
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P638057  
CATALOG NUMBER: GWS-SA4E-722-U-T3-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638057

CATALOG NUMBER: GWS-SA4E-722-U-T3-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6089.2	0.0	6089.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	13150.2	0.0	13150.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	19239.5	0.0	19239.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.9	1.8
10°-20°	1157.5	6.0
20°-30°	2084.2	10.8
30°-40°	3147.9	16.4
40°-50°	4239.0	22.0
50°-60°	5093.7	26.5
60°-70°	2480.7	12.9
70°-80°	611.2	3.2
80°-90°	73.4	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°	19239.5	100.0
0°-180°	19239.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638057

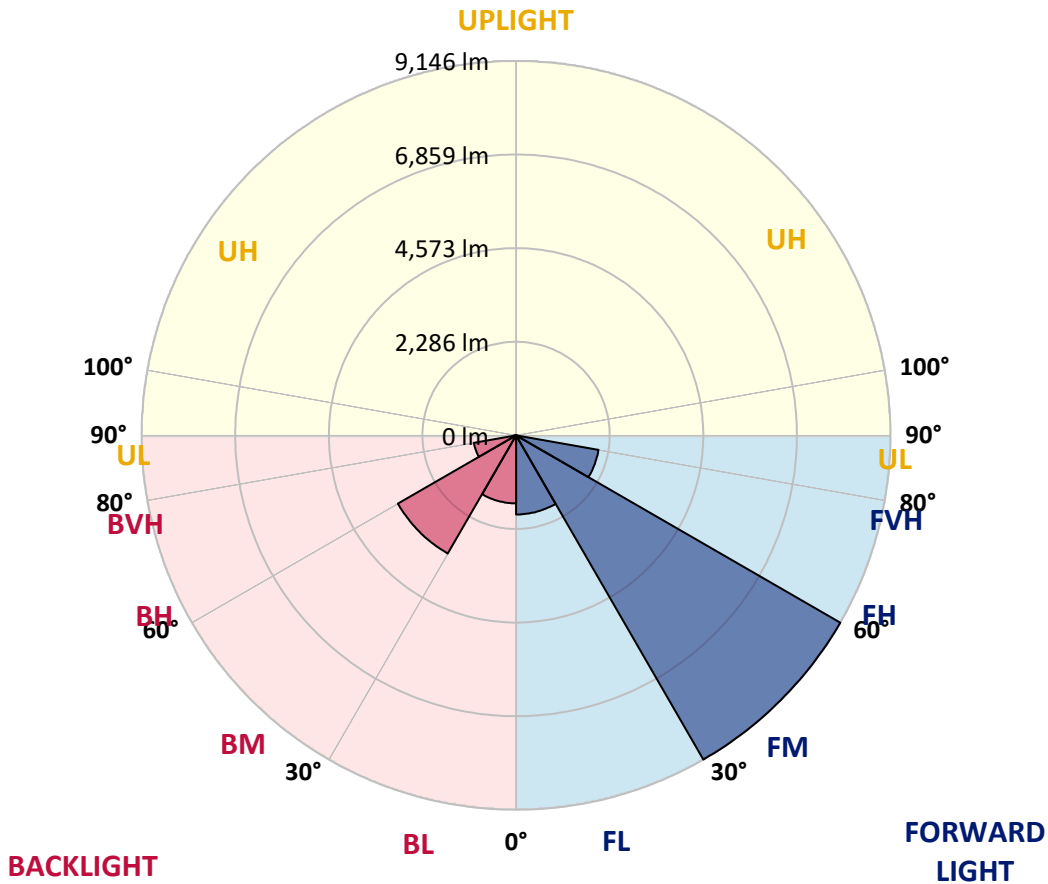
CATALOG NUMBER: GWS-SA4E-722-U-T3-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.5	10.0			
FM (30°-60°)	9145.5	47.5			
FH (60°-80°)	2044.6	10.6			G2/5000
FVH (80°-90°)	27.6	0.1			G1/100
BL (0°-30°)	1661.0	8.6	B3/2500		
BM (30°-60°)	3335.1	17.3	B3/5000		
BH (60°-80°)	1047.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.8	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





REPORT NUMBER: P638057

CATALOG NUMBER: GWS-SA4E-722-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0
2.5°	3561.5	3559.9	3559.9	3569.6	3569.6	3572.8	3577.7	3582.5	3584.2	3576.1	3558.3
5°	3600.3	3600.3	3600.3	3608.4	3608.4	3611.6	3618.1	3619.7	3618.1	3605.2	3587.4
7.5°	3661.7	3661.7	3663.3	3673.0	3681.1	3686.0	3697.3	3695.7	3690.8	3669.8	3647.2
10°	3761.9	3766.8	3771.6	3782.9	3799.1	3810.4	3818.5	3818.5	3812.0	3779.7	3750.6
12.5°	3904.1	3910.6	3915.4	3925.1	3938.0	3957.4	3975.2	3975.2	3967.1	3926.7	3883.1
15°	4070.6	4077.0	4075.4	4078.6	4102.9	4130.3	4144.9	4154.6	4157.8	4101.3	4033.4
17.5°	4261.2	4267.7	4261.2	4251.5	4254.8	4298.4	4324.3	4359.8	4380.8	4304.9	4196.6
20°	4434.1	4427.7	4427.7	4434.1	4443.8	4497.2	4535.9	4594.1	4620.0	4527.9	4359.8
22.5°	4616.7	4631.3	4624.8	4624.8	4663.6	4752.5	4799.3	4875.3	4902.8	4783.2	4556.9
25°	4852.7	4865.6	4862.4	4865.6	4910.8	5036.9	5083.7	5224.3	5251.8	5080.5	4775.1
27.5°	5111.2	5132.2	5141.9	5138.7	5211.4	5376.2	5434.4	5629.9	5680.0	5413.4	5007.8
30°	5447.3	5470.0	5478.0	5474.8	5560.4	5785.1	5851.3	6074.3	6145.4	5807.7	5303.5
32.5°	5836.8	5859.4	5883.6	5893.3	6003.2	6232.7	6328.0	6559.1	6660.9	6263.4	5660.6
35°	6223.0	6242.4	6289.2	6365.2	6515.5	6749.8	6833.8	7061.7	7160.2	6736.8	6092.1
37.5°	6649.6	6662.5	6702.9	6808.0	7024.5	7247.5	7331.5	7549.7	7561.0	7194.2	6580.1
40°	7116.6	7116.6	7108.5	7211.9	7438.2	7662.8	7735.5	7861.5	7795.3	7546.4	7055.2
42.5°	7512.5	7506.0	7512.5	7609.5	7777.5	7960.1	8023.1	7998.9	7914.9	7816.3	7485.0
45°	7869.6	7874.5	7932.6	8007.0	8094.2	8202.5	8239.7	8102.3	8026.4	8032.8	7829.2
47.5°	8112.0	8116.9	8252.6	8377.0	8430.4	8464.3	8448.1	8257.4	8218.7	8291.4	8094.2
50°	8144.3	8170.2	8404.5	8659.8	8792.3	8797.2	8751.9	8519.2	8507.9	8590.3	8236.4
52.5°	8150.8	8176.7	8469.1	8929.7	9273.9	9346.6	9294.9	9052.5	8934.5	8852.1	8411.0
55°	8126.6	8155.6	8478.8	9110.7	9770.0	10060.8	10065.7	9723.1	9346.6	9291.6	8908.7
57.5°	7174.8	7186.1	7687.0	8650.1	9750.6	10574.7	10637.7	10172.3	9742.5	9690.8	9307.8
60°	4998.1	5043.3	5587.9	6859.7	8191.2	9643.9	9847.5	9711.8	9424.2	9047.6	7986.0
62.5°	2503.1	2541.9	3088.1	4290.3	5649.3	6796.6	7014.8	7158.6	7226.5	6822.5	5437.6
65°	1077.8	1106.9	1446.3	2241.3	3197.9	3752.2	3828.2	4001.1	4424.4	3947.7	2929.7
67.5°	720.7	740.1	913.0	1367.1	1884.2	1919.7	1908.4	1945.6	2037.7	1682.2	1323.5
70°	552.7	568.8	685.2	1001.9	1354.2	1158.6	1097.2	995.4	1081.1	1102.1	1073.0
72.5°	400.8	413.7	500.9	683.5	848.4	740.1	730.4	782.1	898.5	930.8	913.0
75°	258.6	265.0	318.3	374.9	437.9	475.1	494.5	588.2	706.2	730.4	709.4
77.5°	172.9	177.8	208.5	240.8	248.9	250.5	256.9	298.9	379.7	425.0	420.1
80°	90.5	90.5	101.8	101.8	116.3	139.0	145.4	172.9	210.1	232.7	234.3
82.5°	35.6	37.2	43.6	48.5	58.2	71.1	75.9	90.5	109.9	126.0	140.6
85°	14.5	16.2	17.8	21.0	25.9	32.3	33.9	38.8	51.7	64.6	72.7
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	4.8	6.5	8.1	14.5	19.4
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: P638057

CATALOG NUMBER: GWS-SA4E-722-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0	3568.0
2.5°	3579.3	3558.3	3579.3	3585.8	3603.5	3610.0	3598.7	3597.1	3597.1	3580.9	3576.1
5°	3603.5	3584.2	3605.2	3614.9	3640.7	3656.9	3660.1	3673.0	3681.1	3674.6	3673.0
7.5°	3663.3	3639.1	3661.7	3676.3	3710.2	3736.1	3747.4	3776.4	3797.5	3794.2	3792.6
10°	3768.4	3736.1	3761.9	3786.1	3823.3	3854.0	3855.6	3871.8	3892.8	3886.3	3883.1
12.5°	3889.6	3858.9	3887.9	3912.2	3955.8	3968.7	3947.7	3941.3	3944.5	3936.4	3930.0
15°	4038.2	3994.6	4020.5	4047.9	4072.2	4057.6	4012.4	3994.6	3993.0	3981.7	3975.2
17.5°	4186.9	4132.0	4151.3	4165.9	4154.6	4109.3	4052.8	4022.1	4007.5	3984.9	3978.4
20°	4333.9	4264.5	4261.2	4249.9	4198.2	4115.8	4039.8	3978.4	3941.3	3910.6	3899.3
22.5°	4502.0	4405.0	4356.6	4304.9	4191.7	4057.6	3942.9	3855.6	3795.8	3757.1	3744.1
25°	4683.0	4545.6	4445.4	4342.0	4127.1	3933.2	3773.2	3653.6	3582.5	3540.5	3526.0
27.5°	4862.4	4673.3	4523.0	4346.9	3997.8	3753.8	3538.9	3377.3	3306.2	3272.3	3261.0
30°	5104.8	4843.0	4615.1	4283.9	3828.2	3505.0	3236.7	3073.5	3026.7	3002.4	2992.7
32.5°	5384.3	5057.9	4737.9	4151.3	3611.6	3214.1	2931.3	2818.2	2785.9	2739.0	2737.4
35°	5752.7	5364.9	4854.3	3955.8	3338.5	2902.2	2697.0	2616.2	2558.0	2483.7	2477.2
37.5°	6182.6	5747.9	4917.3	3707.0	3020.2	2645.3	2522.5	2432.0	2338.3	2239.7	2226.8
40°	6627.0	6195.5	4922.1	3412.9	2708.3	2475.6	2372.2	2254.2	2137.9	2028.0	2013.5
42.5°	7094.0	6612.4	4836.5	3073.5	2453.0	2328.6	2223.5	2074.9	1944.0	1869.6	1861.6
45°	7510.9	6948.5	4642.6	2716.4	2263.9	2205.8	2071.6	1911.7	1842.2	1788.8	1777.5
47.5°	7838.9	7171.5	4380.8	2396.4	2110.4	2079.7	1905.2	1822.8	1769.5	1721.0	1709.7
50°	8000.5	7221.6	4039.8	2136.3	1968.2	1931.0	1811.5	1748.4	1712.9	1674.1	1664.4
52.5°	8200.9	7278.2	3745.7	1918.1	1829.2	1779.1	1733.9	1683.8	1658.0	1633.7	1625.6
55°	8661.4	7491.5	3590.6	1743.6	1696.7	1674.1	1667.6	1625.6	1617.6	1601.4	1586.9
57.5°	8848.9	7354.1	3223.8	1601.4	1591.7	1594.9	1611.1	1572.3	1564.2	1544.8	1535.1
60°	7116.6	5558.8	2183.1	1478.6	1504.4	1525.4	1541.6	1502.8	1491.5	1488.3	1475.4
62.5°	4560.2	3419.3	1523.8	1363.9	1402.6	1428.5	1438.2	1401.0	1392.9	1418.8	1420.4
65°	2373.8	1863.2	1236.2	1241.0	1273.4	1312.1	1331.5	1318.6	1315.4	1342.8	1344.5
67.5°	1212.0	1139.2	1077.8	1095.6	1121.5	1171.6	1216.8	1273.4	1292.8	1296.0	1297.6
70°	1032.6	1000.3	969.6	980.9	1008.3	1035.8	1079.4	1106.9	1074.6	1066.5	1063.3
72.5°	879.1	854.8	840.3	853.2	867.8	862.9	850.0	862.9	867.8	869.4	871.0
75°	683.5	665.8	654.5	656.1	656.1	638.3	614.1	599.5	583.4	570.4	570.4
77.5°	418.5	421.8	433.1	431.5	429.8	423.4	399.1	386.2	347.4	336.1	336.1
80°	239.2	244.0	255.3	258.6	258.6	250.5	226.2	211.7	193.9	185.8	184.2
82.5°	145.4	151.9	158.4	161.6	163.2	153.5	132.5	121.2	111.5	103.4	103.4
85°	75.9	79.2	85.6	87.3	82.4	72.7	61.4	56.6	46.9	45.2	45.2
87.5°	21.0	22.6	25.9	21.0	19.4	14.5	8.1	6.5	3.2	1.6	1.6
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)