

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: P638336

Luminaire Tested: GWS-SA4E-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638336  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

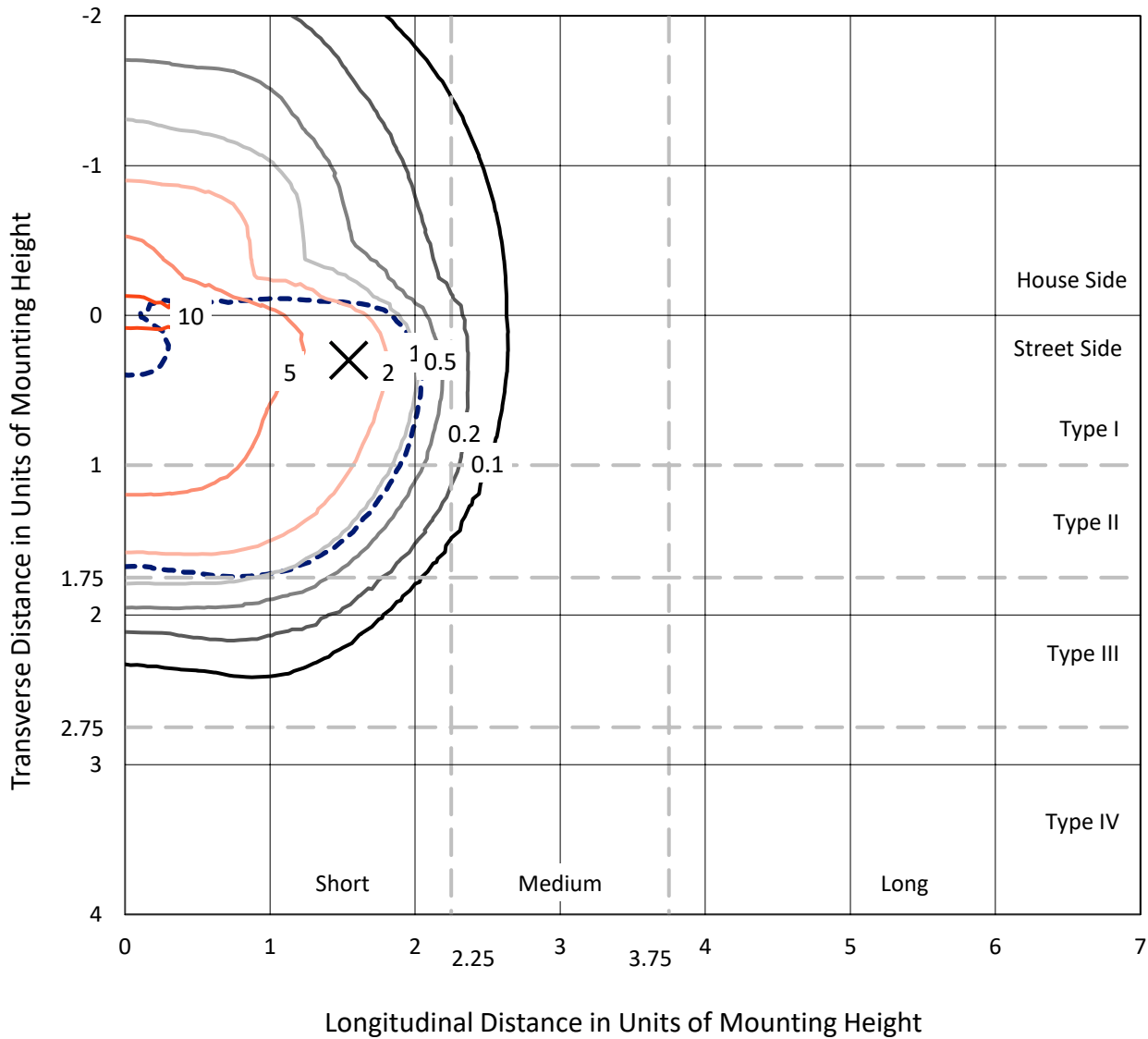
Lumens per Lamp: N/A  
Luminaire Lumens: 27445.2 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

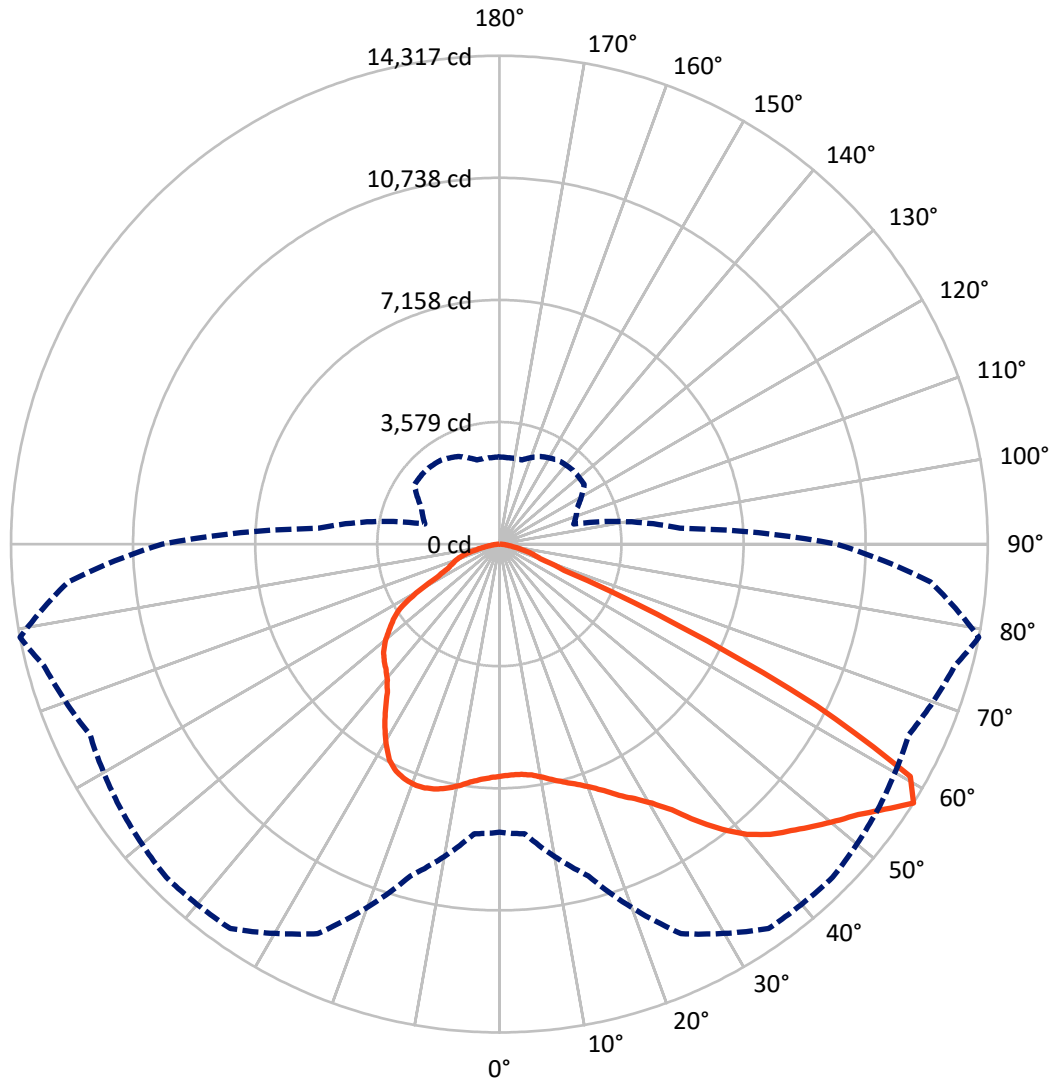
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	8158.2	0.0	8158.2
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	19287.0	0.0	19287.0
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	27445.2	0.0	27445.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.9	2.3
10°-20°	1750.4	6.4
20°-30°	2967.1	10.8
30°-40°	4541.5	16.5
40°-50°	6055.7	22.1
50°-60°	6993.8	25.5
60°-70°	3634.2	13.2
70°-80°	772.5	2.8
80°-90°	100.1	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°	27445.2	100.0
0°-180°	27445.2	100.0

**Coefficient of Utilization**



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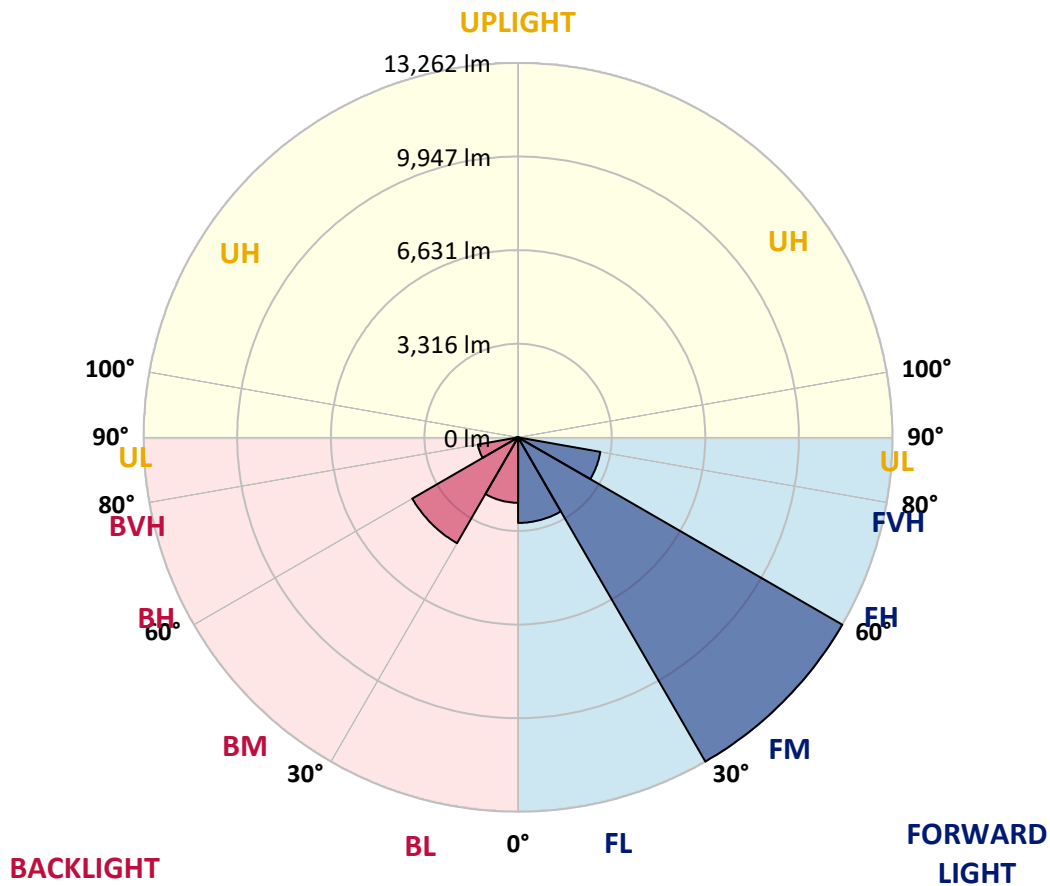
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3030.6	11.0			
FM (30°-60°)	13262.3	48.3			
FH (60°-80°)	2959.3	10.8			G2/5000
FVH (80°-90°)	34.9	0.1			G1/100
BL (0°-30°)	2316.8	8.4	B3/2500		
BM (30°-60°)	4328.7	15.8	B3/5000		
BH (60°-80°)	1447.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	65.2	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°	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6
2.5°	6491.9	6478.4	6482.9	6500.9	6568.2	6617.5	6669.2	6716.3	6761.2	6774.6	6785.8
5°	6260.8	6236.1	6242.8	6272.0	6350.5	6433.5	6525.5	6637.7	6745.5	6781.4	6828.5
7.5°	6096.9	6092.5	6103.7	6148.6	6231.6	6310.1	6429.1	6588.4	6774.6	6835.2	6918.2
10°	5879.3	5870.3	5915.2	6007.2	6144.1	6269.7	6411.1	6599.6	6859.9	6949.7	7077.6
12.5°	5706.5	5702.0	5749.1	5877.0	6052.1	6251.8	6447.0	6657.9	6974.3	7097.8	7254.8
15°	5807.5	5787.3	5789.5	5879.3	6036.4	6272.0	6536.8	6763.4	7088.8	7245.9	7447.8
17.5°	6101.4	6065.5	6038.6	6054.3	6144.1	6388.7	6673.6	6904.8	7221.2	7405.2	7652.0
20°	6507.6	6487.4	6413.3	6364.0	6384.2	6599.6	6889.1	7104.5	7394.0	7600.4	7865.2
22.5°	7052.9	7003.5	6902.5	6824.0	6763.4	6931.7	7198.7	7385.0	7634.1	7849.5	8125.5
25°	7728.3	7656.5	7497.2	7373.8	7243.6	7416.4	7654.3	7795.6	7963.9	8163.7	8426.2
27.5°	8417.2	8356.6	8179.4	8013.3	7851.7	7959.5	8242.2	8323.0	8305.0	8450.9	8675.3
30°	9151.0	9074.7	8906.4	8726.9	8518.2	8587.8	8841.3	8881.7	8691.0	8812.2	8964.8
32.5°	9925.2	9851.1	9705.3	9496.6	9261.0	9287.9	9357.5	9395.6	9213.9	9283.4	9400.1
35°	10712.8	10643.3	10495.2	10288.7	10115.9	9952.1	9777.1	9929.7	9824.2	9958.9	9949.9
37.5°	11433.2	11363.6	11271.6	11112.3	10816.1	10492.9	10089.0	10277.5	10441.3	10611.9	10582.7
40°	11920.1	11873.0	11895.4	11870.7	11489.3	10849.7	10241.6	10448.1	10894.6	11186.3	11170.6
42.5°	12339.7	12292.6	12422.8	12517.0	12068.2	11179.6	10315.7	10513.1	11184.1	11639.6	11617.2
45°	12526.0	12512.5	12728.0	13026.4	12597.8	11529.7	10506.4	10647.8	11404.0	11987.4	11902.2
47.5°	12303.8	12351.0	12775.1	13280.0	13037.6	11944.8	10896.8	10932.8	11691.2	12364.4	12124.3
50°	11861.8	11965.0	12537.2	13286.7	13358.5	12413.8	11437.7	11347.9	12077.2	12766.1	12241.0
52.5°	11217.7	11325.5	12259.0	13235.1	13542.5	12956.8	12158.0	12030.1	12564.1	13167.8	12261.2
55°	9738.9	9884.8	11621.7	13118.4	13722.0	13450.5	12970.3	12710.0	13192.5	13719.8	12460.9
57.5°	8448.6	8524.9	10068.8	12600.0	13757.9	13814.0	13549.3	13239.6	13816.3	14316.7	12685.3
60°	6200.2	6218.1	7607.2	10425.6	12656.1	13603.1	13502.1	13042.1	13520.1	13838.7	11657.6
62.5°	3502.9	3505.1	4613.7	6958.6	9454.0	11087.6	11150.4	10744.3	10342.6	10436.8	8114.3
65°	1315.0	1438.4	2107.1	3419.9	5450.7	6545.7	6806.0	6900.3	6231.6	5816.4	4351.1
67.5°	879.6	908.8	1229.7	1759.3	2425.8	2800.5	3132.6	3141.6	2297.9	2048.8	1714.4
70°	671.0	700.1	967.2	1258.9	1229.7	1135.5	1227.5	1193.8	1234.2	1267.9	1303.8
72.5°	500.4	529.6	749.5	888.6	738.3	727.1	823.5	915.6	1000.8	1036.7	1092.8
75°	332.1	354.6	504.9	475.7	408.4	482.5	601.4	693.4	742.8	785.4	828.0
77.5°	210.9	226.6	269.3	217.7	226.6	282.7	350.1	433.1	480.2	522.9	545.3
80°	96.5	94.2	92.0	103.2	127.9	166.1	210.9	260.3	296.2	314.2	327.6
82.5°	38.1	42.6	47.1	56.1	69.6	89.8	118.9	152.6	181.8	186.3	197.5
85°	15.7	18.0	20.2	24.7	31.4	40.4	49.4	69.6	87.5	94.2	101.0
87.5°	0.0	0.0	0.0	0.0	2.2	4.5	6.7	11.2	20.2	22.4	24.7
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°	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6	6801.6
2.5°	6846.4	6817.3	6866.6	6900.3	6931.7	6898.0	6886.8	6857.7	6853.2	6853.2	6868.9
5°	6909.3	6889.1	6940.7	6960.9	6958.6	6884.6	6839.7	6781.4	6752.2	6752.2	6756.7
7.5°	7021.5	7010.2	7039.4	7008.0	6936.2	6785.8	6637.7	6514.3	6431.3	6388.7	6402.1
10°	7207.7	7194.3	7169.6	7052.9	6846.4	6534.5	6231.6	6007.2	5872.5	5796.2	5800.7
12.5°	7389.5	7367.0	7279.5	7021.5	6597.4	6101.4	5704.2	5452.9	5304.8	5215.0	5194.9
15°	7589.2	7530.9	7342.4	6859.9	6191.2	5571.8	5156.7	4885.2	4725.9	4672.0	4669.8
17.5°	7779.9	7676.7	7335.6	6572.7	5704.2	5017.6	4600.2	4431.9	4405.0	4429.7	4436.4
20°	7972.9	7806.9	7261.6	6175.5	5125.3	4465.6	4250.1	4319.7	4420.7	4488.0	4503.7
22.5°	8172.6	7914.6	7093.3	5663.8	4514.9	4093.1	4182.8	4335.4	4461.1	4550.8	4559.8
25°	8397.0	8015.6	6841.9	5037.8	4025.7	3989.8	4167.1	4328.7	4463.3	4566.5	4584.5
27.5°	8524.9	8017.8	6489.6	4393.7	3801.3	3949.4	4129.0	4281.5	4416.2	4528.4	4548.6
30°	8650.6	7957.2	5930.9	3870.9	3736.3	3902.3	4063.9	4205.3	4333.2	4443.1	4467.8
32.5°	8827.9	7901.1	5286.9	3570.2	3698.1	3857.4	3989.8	4115.5	4214.2	4263.6	4277.1
35°	9047.8	7829.3	4602.4	3440.0	3673.4	3821.5	3938.2	4005.5	3877.6	3850.7	3879.9
37.5°	9355.2	7762.0	3920.3	3383.9	3657.7	3808.1	3911.3	3738.5	3581.4	3518.6	3541.0
40°	9687.3	7723.8	3458.0	3339.1	3664.4	3821.5	3799.1	3543.3	3316.6	3184.2	3179.7
42.5°	9970.1	7665.5	3161.8	3309.9	3682.4	3873.1	3646.5	3370.5	3033.9	2955.3	2957.6
45°	10160.8	7517.4	3004.7	3278.5	3698.1	3884.4	3574.7	3132.6	2892.5	2843.1	2840.9
47.5°	10239.4	7248.1	2903.7	3229.1	3695.9	3792.4	3428.8	3033.9	2793.8	2780.3	2789.3
50°	10187.7	6806.0	2800.5	3132.6	3642.0	3695.9	3260.5	2946.4	2726.5	2800.5	2854.4
52.5°	9997.0	6233.8	2677.1	3000.2	3545.5	3585.9	3175.3	2892.5	2677.1	2775.8	2818.5
55°	9947.6	5769.3	2520.0	2827.4	3401.9	3390.7	3085.5	2865.6	2643.4	2605.3	2612.0
57.5°	9882.6	5316.0	2259.7	2517.8	3038.4	3056.3	3000.2	2834.2	2555.9	2544.7	2555.9
60°	8585.5	4075.1	2015.1	2172.2	2495.3	2591.8	2903.7	2775.8	2414.5	2367.4	2365.2
62.5°	5607.7	2468.4	1793.0	1893.9	2033.1	2145.3	2647.9	2607.5	2259.7	2230.5	2250.7
65°	3015.9	1759.3	1631.4	1692.0	1768.3	1853.5	2194.6	2322.5	2042.0	1938.8	1941.1
67.5°	1541.6	1496.7	1510.2	1552.8	1611.2	1653.8	1770.5	1882.7	1741.3	1653.8	1651.6
70°	1319.5	1355.4	1375.6	1400.3	1438.4	1431.7	1442.9	1463.1	1451.9	1409.2	1407.0
72.5°	1124.2	1180.3	1184.8	1189.3	1202.8	1171.4	1151.2	1117.5	1119.8	1126.5	1128.7
75°	855.0	908.8	922.3	915.6	929.0	888.6	861.7	828.0	787.6	780.9	785.4
77.5°	556.5	599.1	619.3	614.9	621.6	590.2	576.7	540.8	493.7	475.7	475.7
80°	336.6	361.3	377.0	381.5	388.2	365.8	343.3	311.9	291.7	271.5	271.5
82.5°	204.2	219.9	231.1	231.1	237.9	213.2	195.2	172.8	163.8	145.9	145.9
85°	103.2	114.4	118.9	116.7	112.2	92.0	85.3	74.1	69.6	60.6	60.6
87.5°	24.7	31.4	31.4	22.4	22.4	11.2	6.7	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)