

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: P642241

Luminaire Tested: GWS-SA6C-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642241  
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-SA6C-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

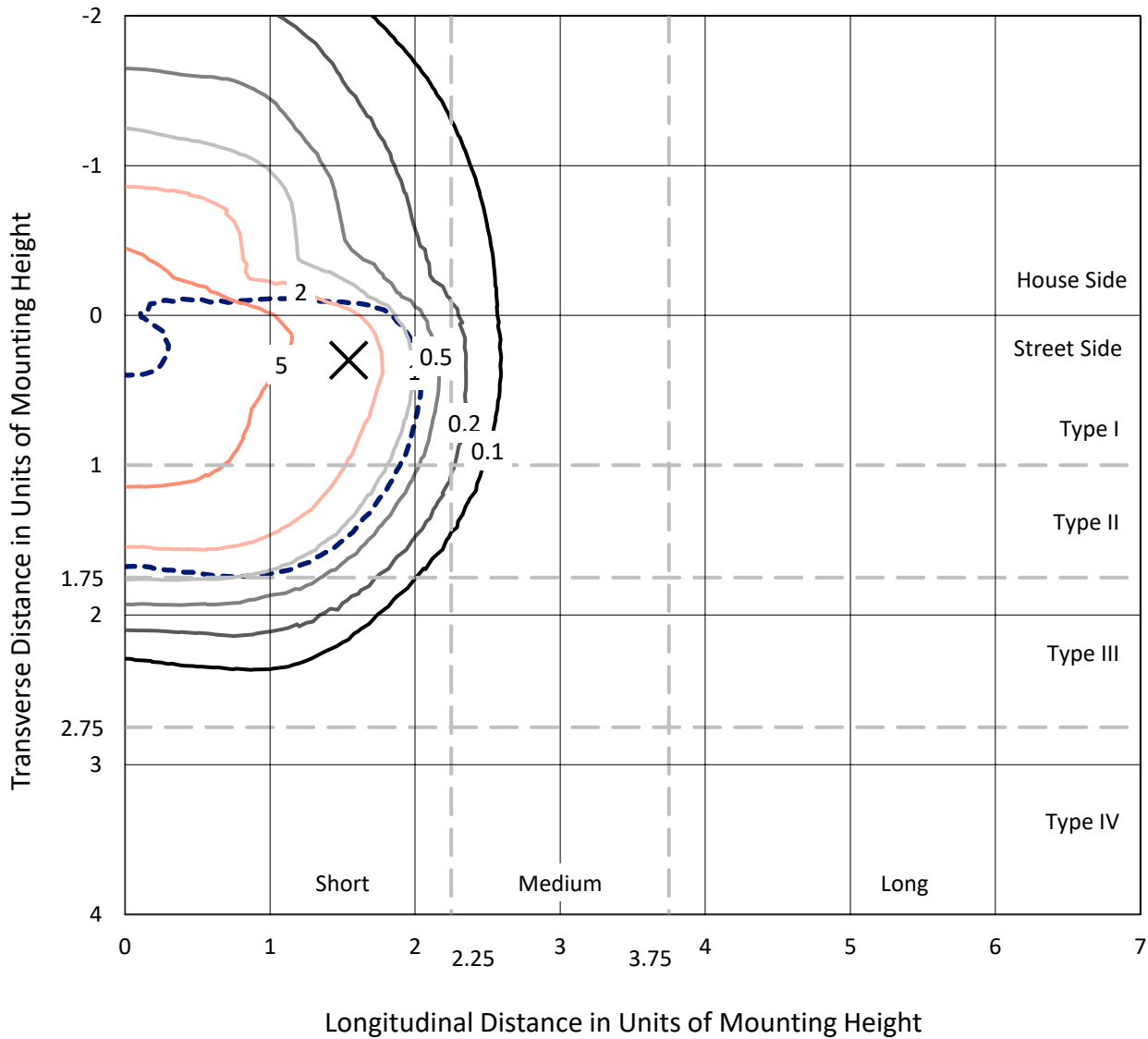
Lumens per Lamp: N/A  
Luminaire Lumens: 24894.6 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

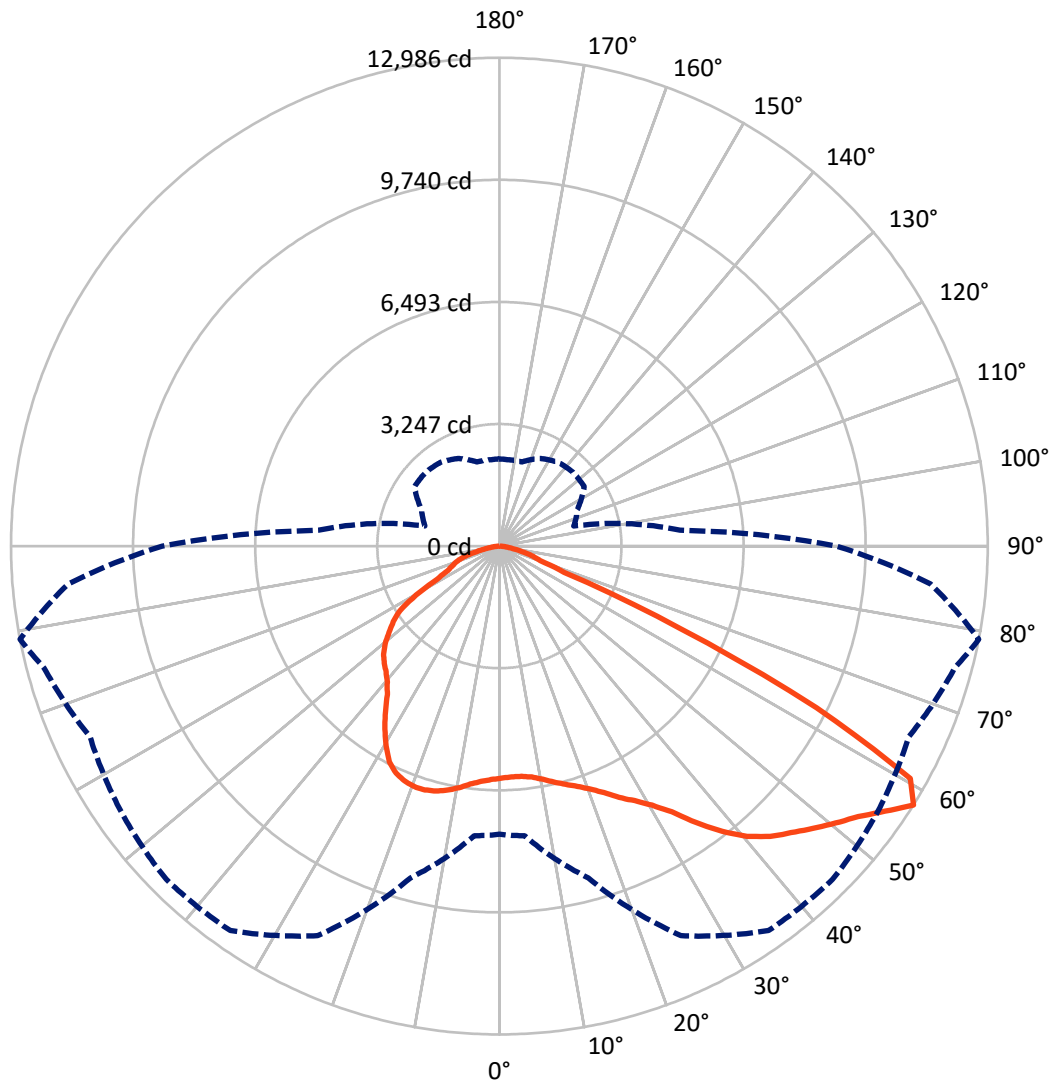
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	7400.0	0.0	7400.0
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	17494.6	0.0	17494.6
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	24894.6	0.0	24894.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.3	2.3
10°-20°	1587.8	6.4
20°-30°	2691.3	10.8
30°-40°	4119.4	16.5
40°-50°	5492.9	22.1
50°-60°	6343.9	25.5
60°-70°	3296.5	13.2
70°-80°	700.7	2.8
80°-90°	90.8	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°	24894.6	100.0
0°-180°	24894.6	100.0

**Coefficient of Utilization**



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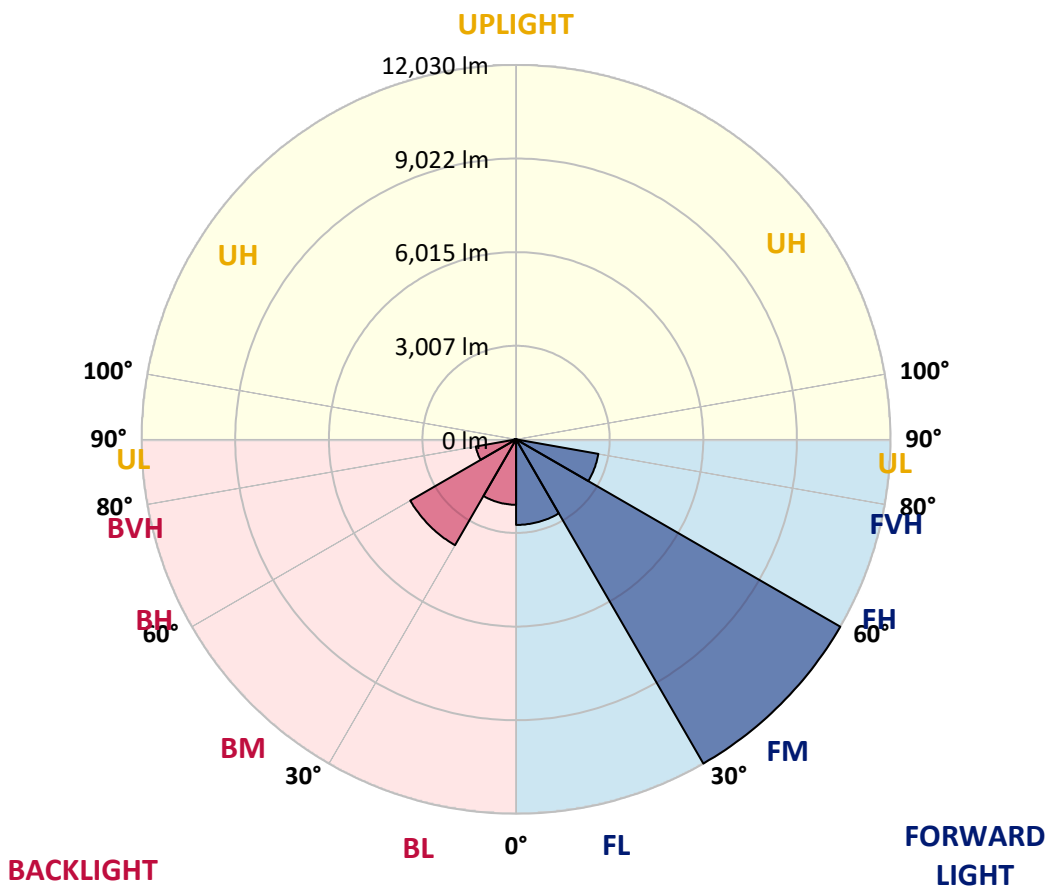
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2748.9	11.0			
FM (30°-60°)	12029.8	48.3			
FH (60°-80°)	2684.3	10.8			G2/5000
FVH (80°-90°)	31.6	0.1			G1/100
BL (0°-30°)	2101.5	8.4	B3/2500		
BM (30°-60°)	3926.4	15.8	B3/5000		
BH (60°-80°)	1313.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	59.1	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°	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5
2.5°	5888.6	5876.4	5880.4	5896.7	5957.8	6002.6	6049.4	6092.1	6132.8	6145.0	6155.2
5°	5678.9	5656.5	5662.6	5689.1	5760.3	5835.6	5919.1	6020.9	6118.6	6151.1	6193.9
7.5°	5530.3	5526.3	5536.4	5577.1	5652.5	5723.7	5831.6	5976.1	6145.0	6200.0	6275.3
10°	5332.9	5324.7	5365.5	5448.9	5573.1	5687.1	5815.3	5986.3	6222.4	6303.8	6419.8
12.5°	5176.2	5172.1	5214.8	5330.9	5489.6	5670.8	5847.9	6039.2	6326.2	6438.1	6580.6
15°	5267.8	5249.4	5251.5	5332.9	5475.4	5689.1	5929.3	6134.9	6430.0	6572.5	6755.7
17.5°	5534.4	5501.8	5477.4	5491.7	5573.1	5794.9	6053.4	6263.1	6550.1	6717.0	6940.9
20°	5902.8	5884.5	5817.3	5772.5	5790.9	5986.3	6248.8	6444.2	6706.8	6894.1	7134.3
22.5°	6397.4	6352.6	6261.1	6189.8	6134.9	6287.5	6529.7	6698.7	6924.6	7120.0	7370.4
25°	7010.1	6945.0	6800.4	6688.5	6570.4	6727.2	6942.9	7071.2	7223.8	7405.0	7643.1
27.5°	7635.0	7580.0	7419.2	7268.6	7122.0	7219.8	7476.2	7549.5	7533.2	7665.5	7869.1
30°	8300.6	8231.4	8078.7	7915.9	7726.6	7789.7	8019.7	8056.3	7883.3	7993.2	8131.6
32.5°	9002.8	8935.6	8803.3	8614.0	8400.3	8424.7	8487.8	8522.4	8357.6	8420.7	8526.5
35°	9717.3	9654.2	9519.8	9332.6	9175.8	9027.2	8868.5	9006.9	8911.2	9033.3	9025.2
37.5°	10370.6	10307.5	10224.1	10079.6	9810.9	9517.8	9151.4	9322.4	9471.0	9625.7	9599.2
40°	10812.3	10769.6	10789.9	10767.5	10421.5	9841.4	9289.8	9477.1	9882.1	10146.7	10132.5
42.5°	11193.0	11150.2	11268.3	11353.8	10946.7	10140.6	9357.0	9536.1	10144.7	10557.9	10537.5
45°	11361.9	11349.7	11545.1	11815.8	11427.0	10458.2	9530.0	9658.2	10344.2	10873.4	10796.0
47.5°	11160.4	11203.1	11587.8	12045.8	11826.0	10834.7	9884.2	9916.7	10604.7	11215.3	10997.6
50°	10759.4	10853.0	11372.1	12051.9	12117.1	11260.1	10374.7	10293.3	10954.8	11579.7	11103.4
52.5°	10175.2	10272.9	11119.7	12005.1	12284.0	11752.7	11028.1	10912.1	11396.5	11944.0	11121.7
55°	8833.9	8966.2	10541.6	11899.3	12446.8	12200.5	11764.9	11528.8	11966.4	12444.8	11302.9
57.5°	7663.5	7732.7	9133.1	11429.1	12479.4	12530.2	12290.1	12009.2	12532.3	12986.2	11506.4
60°	5624.0	5640.2	6900.2	9456.7	11480.0	12338.9	12247.3	11830.1	12263.6	12552.6	10574.2
62.5°	3177.3	3179.4	4184.9	6311.9	8575.4	10057.2	10114.2	9745.7	9381.4	9466.9	7360.2
65°	1192.8	1304.7	1911.3	3102.0	4944.1	5937.4	6173.5	6259.0	5652.5	5275.9	3946.7
67.5°	797.9	824.4	1115.4	1595.8	2200.3	2540.2	2841.5	2849.6	2084.3	1858.4	1555.1
70°	608.6	635.1	877.3	1141.9	1115.4	1029.9	1113.4	1082.9	1119.5	1150.0	1182.6
72.5°	453.9	480.4	679.8	806.0	669.7	659.5	747.0	830.5	907.8	940.4	991.3
75°	301.2	321.6	458.0	431.5	370.5	437.6	545.5	629.0	673.7	712.4	751.1
77.5°	191.3	205.6	244.3	197.4	205.6	256.5	317.5	392.8	435.6	474.3	494.6
80°	87.5	85.5	83.5	93.6	116.0	150.6	191.3	236.1	268.7	285.0	297.2
82.5°	34.6	38.7	42.7	50.9	63.1	81.4	107.9	138.4	164.9	168.9	179.1
85°	14.2	16.3	18.3	22.4	28.5	36.6	44.8	63.1	79.4	85.5	91.6
87.5°	0.0	0.0	0.0	0.0	2.0	4.1	6.1	10.2	18.3	20.4	22.4
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°	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5	6169.5
2.5°	6210.2	6183.7	6228.5	6259.0	6287.5	6257.0	6246.8	6220.3	6216.3	6216.3	6230.5
5°	6267.2	6248.8	6295.7	6314.0	6311.9	6244.8	6204.1	6151.1	6124.7	6124.7	6128.7
7.5°	6368.9	6358.8	6385.2	6356.7	6291.6	6155.2	6020.9	5908.9	5833.6	5794.9	5807.1
10°	6537.9	6525.7	6503.3	6397.4	6210.2	5927.2	5652.5	5448.9	5326.8	5257.6	5261.6
12.5°	6702.7	6682.4	6603.0	6368.9	5984.2	5534.4	5174.1	4946.2	4811.8	4730.4	4712.1
15°	6883.9	6831.0	6660.0	6222.4	5615.8	5054.0	4677.5	4431.2	4286.7	4237.8	4235.8
17.5°	7056.9	6963.3	6653.9	5961.8	5174.1	4551.3	4172.7	4020.0	3995.6	4018.0	4024.1
20°	7232.0	7081.3	6586.7	5601.6	4649.0	4050.6	3855.1	3918.2	4009.8	4070.9	4085.2
22.5°	7413.1	7179.0	6434.1	5137.5	4095.3	3712.7	3794.1	3932.5	4046.5	4127.9	4136.0
25°	7616.7	7270.6	6206.1	4569.6	3651.6	3619.0	3779.8	3926.4	4048.5	4142.1	4158.4
27.5°	7732.7	7272.7	5886.5	3985.4	3448.1	3582.4	3745.2	3883.6	4005.8	4107.5	4125.9
30°	7846.7	7217.7	5379.7	3511.2	3389.0	3539.7	3686.2	3814.4	3930.5	4030.2	4052.6
32.5°	8007.5	7166.8	4795.5	3238.4	3354.4	3498.9	3619.0	3733.0	3822.6	3867.4	3879.6
35°	8206.9	7101.7	4174.7	3120.3	3332.0	3466.4	3572.2	3633.3	3517.3	3492.8	3519.3
37.5°	8485.8	7040.6	3555.9	3069.5	3317.8	3454.2	3547.8	3391.1	3248.6	3191.6	3211.9
40°	8787.0	7006.0	3136.6	3028.8	3323.9	3466.4	3446.0	3214.0	3008.4	2888.3	2884.2
42.5°	9043.5	6953.1	2868.0	3002.3	3340.2	3513.2	3307.6	3057.3	2751.9	2680.7	2682.7
45°	9216.5	6818.8	2725.5	2973.8	3354.4	3523.4	3242.5	2841.5	2623.7	2578.9	2576.9
47.5°	9287.8	6574.5	2633.9	2929.0	3352.4	3439.9	3110.2	2751.9	2534.1	2521.9	2530.1
50°	9241.0	6173.5	2540.2	2841.5	3303.5	3352.4	2957.5	2672.5	2473.1	2540.2	2589.1
52.5°	9067.9	5654.5	2428.3	2721.4	3216.0	3252.7	2880.2	2623.7	2428.3	2517.9	2556.5
55°	9023.2	5233.1	2285.8	2564.7	3085.7	3075.6	2798.7	2599.3	2397.8	2363.2	2369.3
57.5°	8964.1	4822.0	2049.7	2283.8	2756.0	2772.3	2721.4	2570.8	2318.4	2308.2	2318.4
60°	7787.6	3696.4	1827.8	1970.3	2263.4	2350.9	2633.9	2517.9	2190.1	2147.4	2145.4
62.5°	5086.6	2239.0	1626.3	1717.9	1844.1	1945.9	2401.8	2365.2	2049.7	2023.2	2041.6
65°	2735.6	1595.8	1479.8	1534.7	1603.9	1681.3	1990.7	2106.7	1852.3	1758.6	1760.7
67.5°	1398.4	1357.6	1369.9	1408.5	1461.5	1500.1	1606.0	1707.7	1579.5	1500.1	1498.1
70°	1196.8	1229.4	1247.7	1270.1	1304.7	1298.6	1308.8	1327.1	1316.9	1278.3	1276.2
72.5°	1019.8	1070.6	1074.7	1078.8	1091.0	1062.5	1044.2	1013.7	1015.7	1021.8	1023.8
75°	775.5	824.4	836.6	830.5	842.7	806.0	781.6	751.1	714.4	708.3	712.4
77.5°	504.8	543.5	561.8	557.7	563.8	535.3	523.1	490.5	447.8	431.5	431.5
80°	305.3	327.7	342.0	346.0	352.1	331.8	311.4	282.9	264.6	246.3	246.3
82.5°	185.2	199.5	209.7	209.7	215.8	193.4	177.1	156.7	148.6	132.3	132.3
85°	93.6	103.8	107.9	105.8	101.8	83.5	77.3	67.2	63.1	55.0	55.0
87.5°	22.4	28.5	28.5	20.4	20.4	10.2	6.1	2.0	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)