

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: P642021

Luminaire Tested: GWS-SA6C-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642021  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

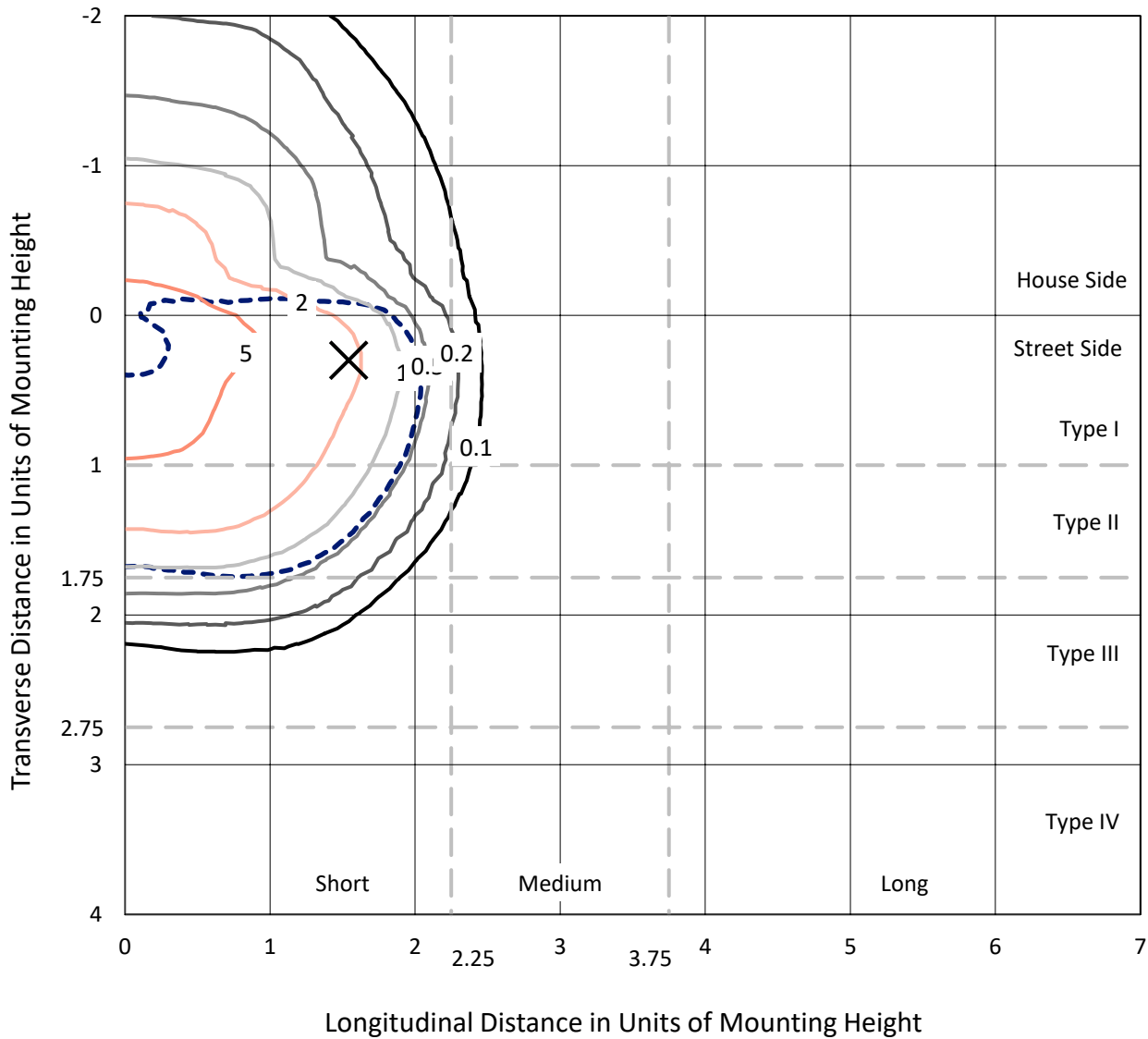
Lumens per Lamp: N/A  
Luminaire Lumens: 18337.3 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

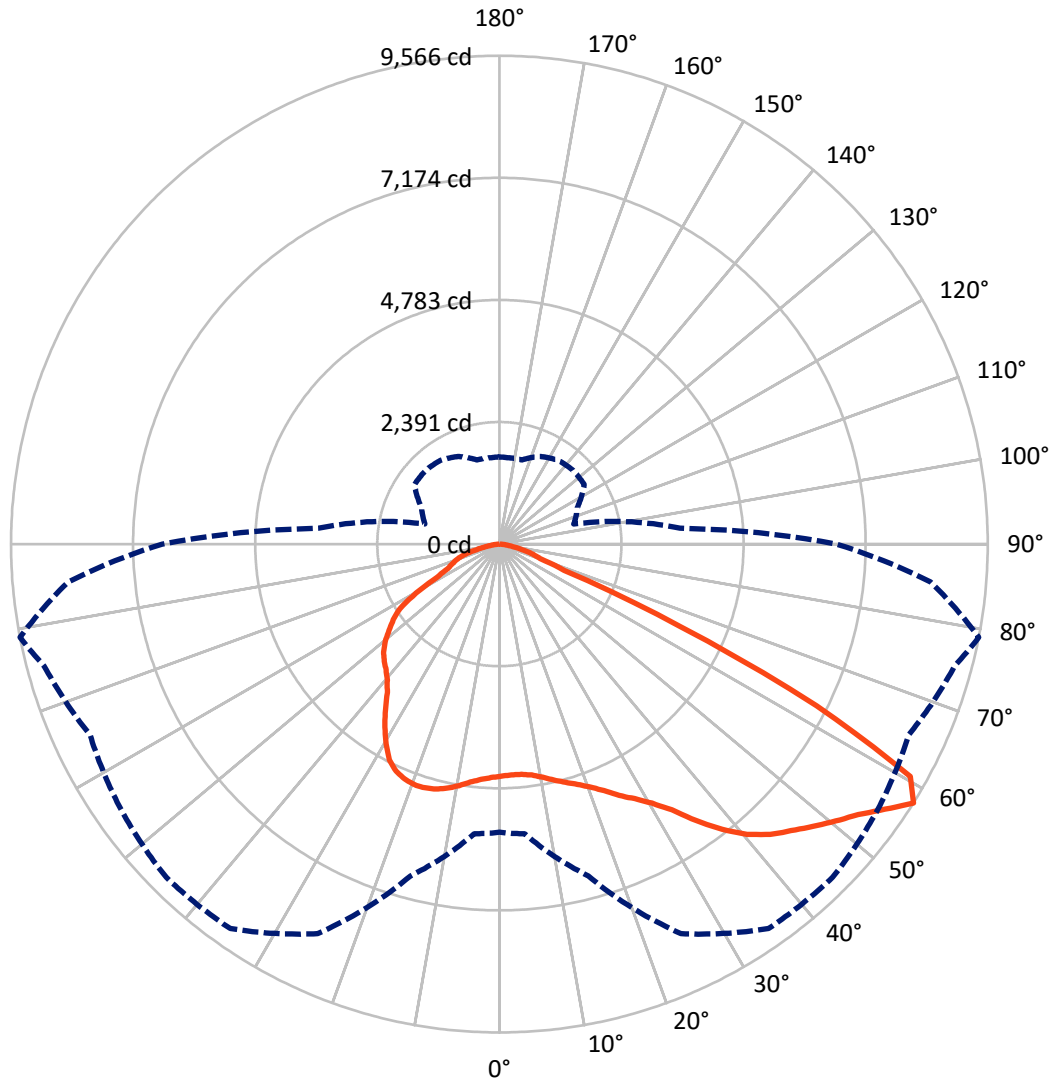
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	5450.8	0.0	5450.8
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	12886.5	0.0	12886.5
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	18337.3	0.0	18337.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.8	2.3
10°-20°	1169.5	6.4
20°-30°	1982.4	10.8
30°-40°	3034.4	16.5
40°-50°	4046.0	22.1
50°-60°	4672.9	25.5
60°-70°	2428.2	13.2
70°-80°	516.2	2.8
80°-90°	66.9	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°	18337.3	100.0
0°-180°	18337.3	100.0

**Coefficient of Utilization**



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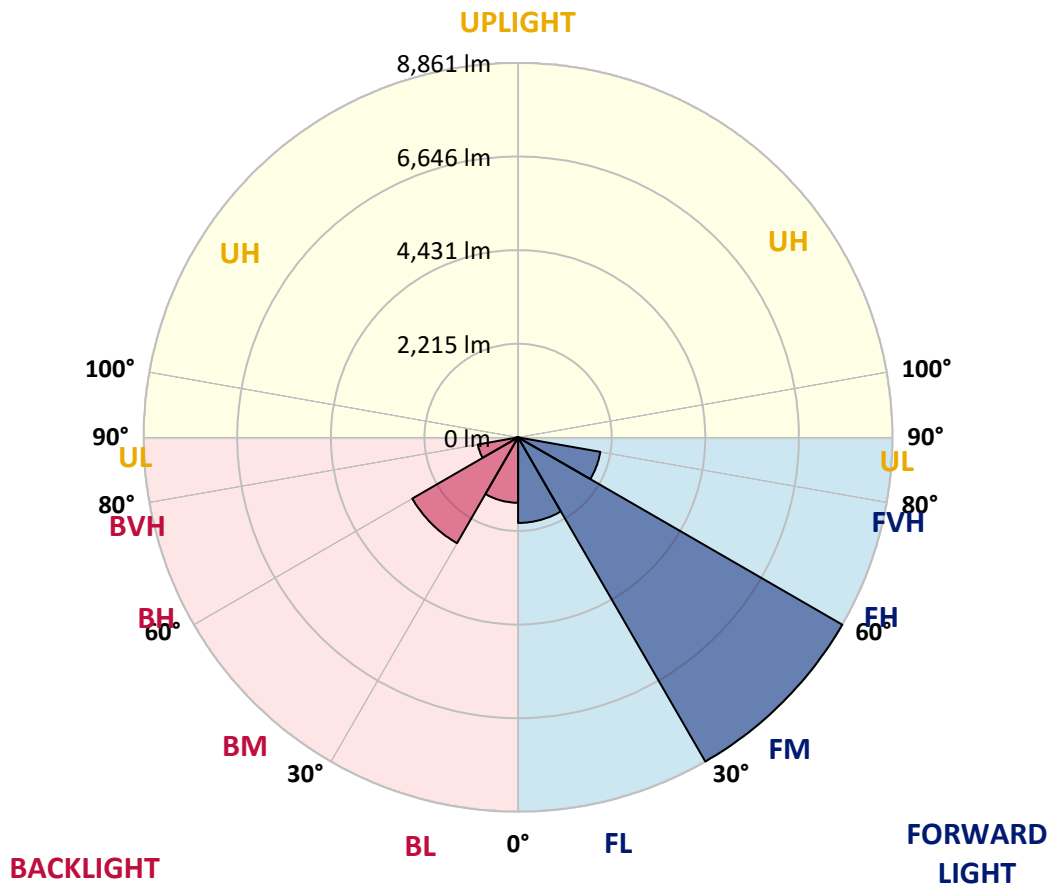
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.8	11.0			
FM (30°-60°)	8861.1	48.3			
FH (60°-80°)	1977.2	10.8			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1548.0	8.4	B3/2500		
BM (30°-60°)	2892.2	15.8	B3/5000		
BH (60°-80°)	967.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	43.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4
2.5°	4337.5	4328.5	4331.5	4343.5	4388.5	4421.5	4455.9	4487.4	4517.4	4526.4	4533.9
5°	4183.1	4166.6	4171.1	4190.6	4243.0	4298.5	4360.0	4435.0	4506.9	4530.9	4562.4
7.5°	4073.6	4070.6	4078.1	4108.1	4163.6	4216.1	4295.5	4402.0	4526.4	4566.9	4622.4
10°	3928.2	3922.2	3952.2	4013.7	4105.1	4189.1	4283.5	4409.5	4583.4	4643.4	4728.8
12.5°	3812.7	3809.7	3841.2	3926.7	4043.6	4177.1	4307.5	4448.5	4659.9	4742.3	4847.3
15°	3880.2	3866.7	3868.2	3928.2	4033.1	4190.6	4367.5	4518.9	4736.3	4841.3	4976.2
17.5°	4076.6	4052.6	4034.6	4045.1	4105.1	4268.5	4458.9	4613.4	4824.8	4947.7	5112.6
20°	4348.0	4334.5	4285.0	4252.0	4265.5	4409.5	4602.9	4746.8	4940.2	5078.2	5255.1
22.5°	4712.3	4679.3	4611.9	4559.4	4518.9	4631.4	4809.8	4934.2	5100.7	5244.6	5429.0
25°	5163.6	5115.6	5009.2	4926.7	4839.8	4955.2	5114.1	5208.6	5321.0	5454.5	5629.9
27.5°	5623.9	5583.4	5465.0	5354.0	5246.1	5318.1	5507.0	5560.9	5548.9	5646.4	5796.3
30°	6114.2	6063.2	5950.8	5830.8	5691.4	5737.9	5907.3	5934.3	5806.8	5887.8	5989.7
32.5°	6631.4	6582.0	6484.5	6345.1	6187.7	6205.6	6252.1	6277.6	6156.2	6202.6	6280.6
35°	7157.7	7111.2	7012.3	6874.3	6758.9	6649.4	6532.5	6634.4	6564.0	6653.9	6647.9
37.5°	7639.0	7592.5	7531.0	7424.6	7226.7	7010.8	6740.9	6866.8	6976.3	7090.2	7070.7
40°	7964.3	7932.8	7947.8	7931.3	7676.5	7249.2	6842.8	6980.8	7279.1	7474.1	7463.6
42.5°	8244.7	8213.2	8300.2	8363.1	8063.3	7469.6	6892.3	7024.3	7472.6	7776.9	7761.9
45°	8369.1	8360.1	8504.1	8703.5	8417.1	7703.5	7019.8	7114.2	7619.5	8009.3	7952.3
47.5°	8220.7	8252.2	8535.6	8872.9	8711.0	7980.8	7280.6	7304.6	7811.4	8261.2	8100.8
50°	7925.3	7994.3	8376.6	8877.4	8925.4	8294.2	7642.0	7582.0	8069.3	8529.6	8178.7
52.5°	7495.0	7567.0	8190.7	8842.9	9048.3	8657.0	8123.3	8037.8	8394.6	8797.9	8192.2
55°	6507.0	6604.5	7764.9	8765.0	9168.3	8986.9	8666.0	8492.1	8814.4	9166.8	8325.7
57.5°	5644.9	5695.9	6727.4	8418.6	9192.3	9229.7	9052.8	8845.9	9231.2	9565.6	8475.6
60°	4142.6	4154.6	5082.7	6965.8	8456.1	9088.8	9021.3	8714.0	9033.3	9246.2	7788.9
62.5°	2340.4	2341.9	3082.6	4649.4	6316.6	7408.1	7450.1	7178.7	6910.3	6973.3	5421.5
65°	878.6	961.1	1407.9	2284.9	3641.8	4373.5	4547.4	4610.4	4163.6	3886.2	2907.2
67.5°	587.7	607.2	821.6	1175.5	1620.8	1871.1	2093.0	2099.0	1535.3	1368.9	1145.5
70°	448.3	467.8	646.2	841.1	821.6	758.7	820.1	797.6	824.6	847.1	871.1
72.5°	334.3	353.8	500.8	593.7	493.3	485.8	550.2	611.7	668.7	692.7	730.2
75°	221.9	236.9	337.3	317.9	272.9	322.4	401.8	463.3	496.3	524.8	553.2
77.5°	140.9	151.4	179.9	145.4	151.4	188.9	233.9	289.4	320.9	349.3	364.3
80°	64.5	63.0	61.5	69.0	85.5	110.9	140.9	173.9	197.9	209.9	218.9
82.5°	25.5	28.5	31.5	37.5	46.5	60.0	79.5	102.0	121.4	124.4	131.9
85°	10.5	12.0	13.5	16.5	21.0	27.0	33.0	46.5	58.5	63.0	67.5
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	4.5	7.5	13.5	15.0	16.5
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°	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4	4544.4
2.5°	4574.4	4554.9	4587.9	4610.4	4631.4	4608.9	4601.4	4581.9	4578.9	4578.9	4589.4
5°	4616.4	4602.9	4637.4	4650.9	4649.4	4599.9	4569.9	4530.9	4511.4	4511.4	4514.4
7.5°	4691.3	4683.8	4703.3	4682.3	4634.4	4533.9	4435.0	4352.5	4297.0	4268.5	4277.5
10°	4815.8	4806.8	4790.3	4712.3	4574.4	4366.0	4163.6	4013.7	3923.7	3872.7	3875.7
12.5°	4937.2	4922.2	4863.8	4691.3	4408.0	4076.6	3811.2	3643.3	3544.4	3484.4	3470.9
15°	5070.7	5031.7	4905.7	4583.4	4136.6	3722.8	3445.4	3264.0	3157.5	3121.6	3120.1
17.5°	5198.1	5129.1	4901.2	4391.5	3811.2	3352.5	3073.6	2961.1	2943.1	2959.6	2964.1
20°	5327.0	5216.1	4851.8	4126.1	3424.4	2983.6	2839.7	2886.2	2953.6	2998.6	3009.1
22.5°	5460.5	5288.1	4739.3	3784.3	3016.6	2734.7	2794.7	2896.7	2980.6	3040.6	3046.6
25°	5610.4	5355.5	4571.4	3365.9	2689.8	2665.8	2784.2	2892.2	2982.1	3051.1	3063.1
27.5°	5695.9	5357.0	4336.0	2935.6	2539.8	2638.8	2758.7	2860.7	2950.6	3025.6	3039.1
30°	5779.8	5316.6	3962.7	2586.3	2496.4	2607.3	2715.2	2809.7	2895.2	2968.6	2985.1
32.5°	5898.3	5279.1	3532.4	2385.4	2470.9	2577.3	2665.8	2749.7	2815.7	2848.7	2857.7
35°	6045.2	5231.1	3075.1	2298.4	2454.4	2553.3	2631.3	2676.3	2590.8	2572.8	2592.3
37.5°	6250.6	5186.1	2619.3	2261.0	2443.9	2544.3	2613.3	2497.8	2392.9	2350.9	2365.9
40°	6472.5	5160.6	2310.4	2231.0	2448.4	2553.3	2538.3	2367.4	2216.0	2127.5	2124.5
42.5°	6661.4	5121.6	2112.5	2211.5	2460.4	2587.8	2436.4	2252.0	2027.1	1974.6	1976.1
45°	6788.9	5022.7	2007.6	2190.5	2470.9	2595.3	2388.4	2093.0	1932.6	1899.6	1898.1
47.5°	6841.3	4842.8	1940.1	2157.5	2469.4	2533.8	2290.9	2027.1	1866.6	1857.6	1863.6
50°	6806.9	4547.4	1871.1	2093.0	2433.4	2469.4	2178.5	1968.6	1821.7	1871.1	1907.1
52.5°	6679.4	4165.1	1788.7	2004.6	2368.9	2395.9	2121.5	1932.6	1788.7	1854.6	1883.1
55°	6646.4	3854.7	1683.7	1889.1	2273.0	2265.5	2061.6	1914.6	1766.2	1740.7	1745.2
57.5°	6603.0	3551.9	1509.8	1682.2	2030.1	2042.1	2004.6	1893.6	1707.7	1700.2	1707.7
60°	5736.4	2722.7	1346.4	1451.3	1667.2	1731.7	1940.1	1854.6	1613.3	1581.8	1580.3
62.5°	3746.8	1649.2	1197.9	1265.4	1358.4	1433.3	1769.2	1742.2	1509.8	1490.3	1503.8
65°	2015.1	1175.5	1090.0	1130.5	1181.5	1238.4	1466.3	1551.8	1364.4	1295.4	1296.9
67.5°	1030.0	1000.0	1009.0	1037.5	1076.5	1105.0	1183.0	1257.9	1163.5	1105.0	1103.5
70°	881.6	905.6	919.1	935.6	961.1	956.6	964.1	977.5	970.1	941.6	940.1
72.5°	751.2	788.6	791.6	794.6	803.6	782.6	769.1	746.7	748.2	752.7	754.2
75°	571.2	607.2	616.2	611.7	620.7	593.7	575.7	553.2	526.3	521.8	524.8
77.5°	371.8	400.3	413.8	410.8	415.3	394.3	385.3	361.3	329.8	317.9	317.9
80°	224.9	241.4	251.9	254.9	259.4	244.4	229.4	208.4	194.9	181.4	181.4
82.5°	136.4	146.9	154.4	154.4	158.9	142.4	130.4	115.4	109.4	97.5	97.5
85°	69.0	76.5	79.5	78.0	75.0	61.5	57.0	49.5	46.5	40.5	40.5
87.5°	16.5	21.0	21.0	15.0	15.0	7.5	4.5	1.5	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)