

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: P638552

Luminaire Tested: GWS-SA4F-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638552  
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-SA4F-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**

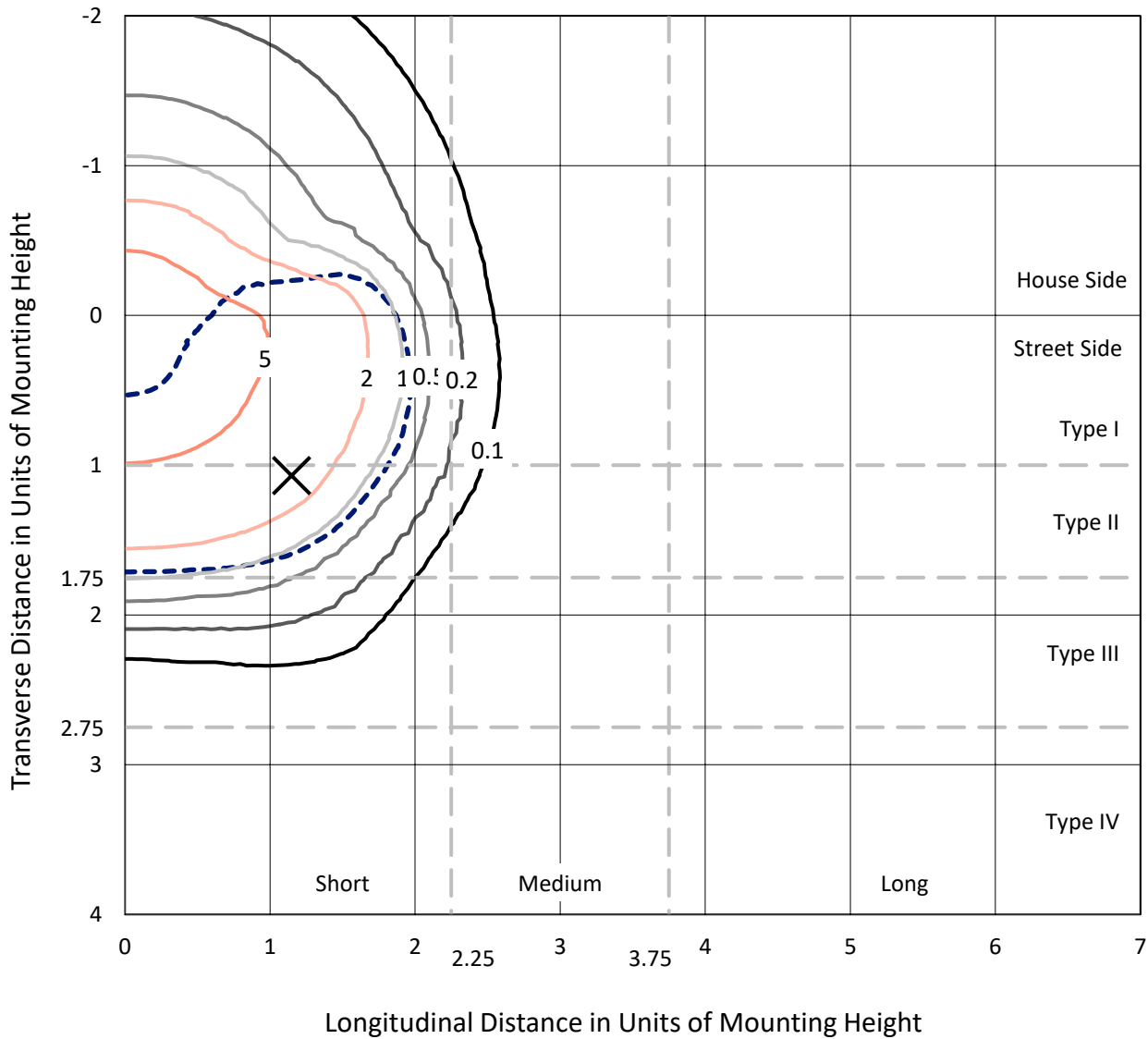
Lumens per Lamp: N/A  
Luminaire Lumens: 21390.9 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

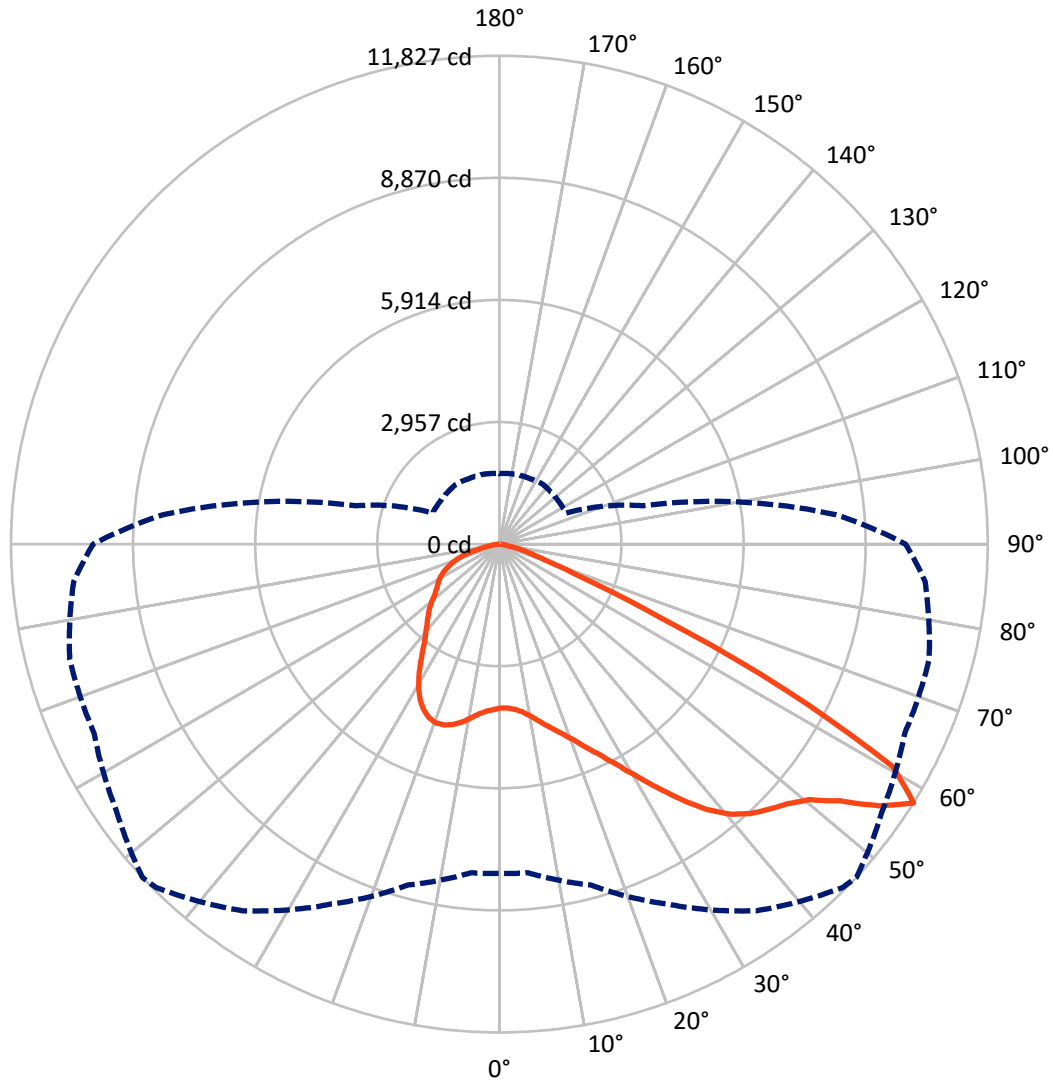
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA4F-722-U-T3-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6770.2	0.0	6770.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14620.7	0.0	14620.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	21390.9	0.0	21390.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.3	1.8
10°-20°	1286.9	6.0
20°-30°	2317.2	10.8
30°-40°	3499.9	16.4
40°-50°	4713.0	22.0
50°-60°	5663.3	26.5
60°-70°	2758.1	12.9
70°-80°	679.5	3.2
80°-90°	81.7	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°	21390.9	100.0
0°-180°	21390.9	100.0

**Coefficient of Utilization**

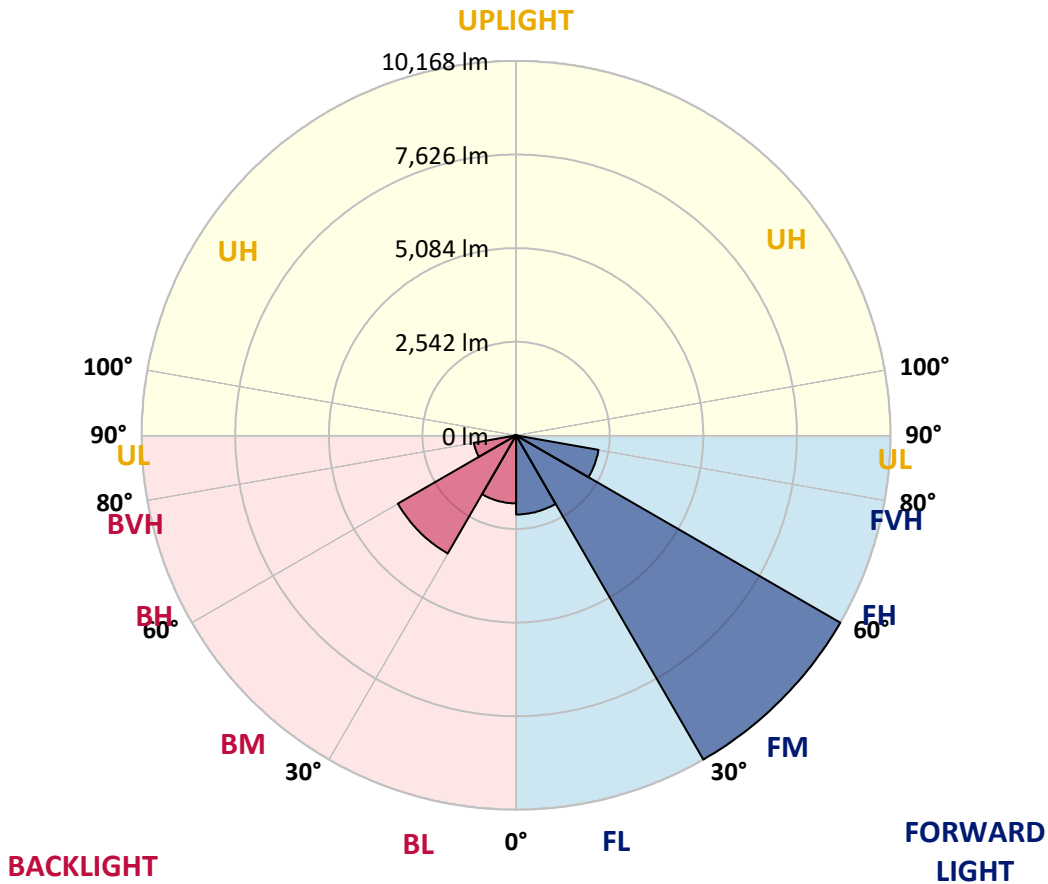


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.6	10.0			
FM (30°-60°)	10168.2	47.5			
FH (60°-80°)	2273.2	10.6			G2/5000
FVH (80°-90°)	30.7	0.1			G1/100
BL (0°-30°)	1846.8	8.6	B3/2500		
BM (30°-60°)	3708.0	17.3	B3/5000		
BH (60°-80°)	1164.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	51.0	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°	47°	55°	65°	75°	85°
0°	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0
2.5°	3959.8	3958.0	3958.0	3968.8	3968.8	3972.4	3977.8	3983.1	3984.9	3976.0	3956.2
5°	4002.9	4002.9	4002.9	4011.9	4011.9	4015.5	4022.7	4024.5	4022.7	4008.3	3988.5
7.5°	4071.2	4071.2	4073.0	4083.8	4092.7	4098.1	4110.7	4108.9	4103.5	4080.2	4055.0
10°	4182.6	4188.0	4193.3	4205.9	4223.9	4236.5	4245.5	4245.5	4238.3	4202.3	4170.0
12.5°	4340.7	4347.9	4353.3	4364.0	4378.4	4400.0	4419.7	4419.7	4410.7	4365.8	4317.3
15°	4525.7	4532.9	4531.1	4534.7	4561.7	4592.2	4608.4	4619.2	4622.7	4559.9	4484.4
17.5°	4737.7	4744.9	4737.7	4727.0	4730.5	4779.1	4807.8	4847.3	4870.7	4786.2	4665.9
20°	4930.0	4922.8	4922.8	4930.0	4940.8	5000.0	5043.2	5107.8	5136.6	5034.2	4847.3
22.5°	5133.0	5149.2	5142.0	5142.0	5185.1	5283.9	5336.0	5420.5	5451.0	5318.0	5066.5
25°	5395.3	5409.7	5406.1	5409.7	5460.0	5600.1	5652.2	5808.5	5839.1	5648.6	5309.1
27.5°	5682.8	5706.1	5716.9	5713.3	5794.2	5977.4	6042.1	6259.5	6315.2	6018.7	5567.8
30°	6056.5	6081.6	6090.6	6087.0	6182.2	6432.0	6505.6	6753.6	6832.6	6457.1	5896.6
32.5°	6489.5	6514.6	6541.6	6552.3	6674.5	6929.6	7035.6	7292.5	7405.7	6963.8	6293.6
35°	6918.8	6940.4	6992.5	7077.0	7244.0	7504.6	7598.0	7851.3	7960.9	7490.2	6773.3
37.5°	7393.2	7407.5	7452.4	7569.2	7810.0	8057.9	8151.3	8393.9	8406.5	7998.6	7315.9
40°	7912.4	7912.4	7903.4	8018.4	8269.9	8519.7	8600.5	8740.6	8667.0	8390.3	7844.1
42.5°	8352.6	8345.4	8352.6	8460.4	8647.2	8850.2	8920.3	8893.4	8799.9	8690.3	8322.0
45°	8749.6	8755.0	8819.7	8902.3	8999.4	9119.7	9161.0	9008.3	8923.9	8931.1	8704.7
47.5°	9019.1	9024.5	9175.4	9313.8	9373.1	9410.8	9392.8	9180.8	9137.7	9218.5	8999.4
50°	9055.0	9083.8	9344.3	9628.2	9775.5	9780.9	9730.6	9471.9	9459.3	9550.9	9157.5
52.5°	9062.2	9091.0	9416.2	9928.2	10310.9	10391.7	10334.3	10064.8	9933.6	9842.0	9351.5
55°	9035.3	9067.6	9427.0	10129.4	10862.5	11185.9	11191.2	10810.4	10391.7	10330.7	9904.9
57.5°	7977.1	7989.6	8546.6	9617.4	10840.9	11757.2	11827.3	11309.8	10831.9	10774.4	10348.6
60°	5557.0	5607.3	6212.8	7626.7	9107.2	10722.3	10948.7	10797.8	10478.0	10059.4	8879.0
62.5°	2783.0	2826.1	3433.4	4770.1	6281.0	7556.7	7799.2	7959.1	8034.6	7585.4	6045.7
65°	1198.4	1230.7	1608.0	2491.9	3555.5	4171.8	4256.2	4448.5	4919.2	4389.2	3257.3
67.5°	801.3	822.9	1015.1	1520.0	2094.9	2134.4	2121.8	2163.2	2265.6	1870.3	1471.4
70°	614.4	632.4	761.8	1113.9	1505.6	1288.2	1219.9	1106.7	1201.9	1225.3	1193.0
72.5°	445.6	459.9	557.0	760.0	943.2	822.9	812.1	869.6	998.9	1034.9	1015.1
75°	287.5	294.6	353.9	416.8	486.9	528.2	549.8	654.0	785.1	812.1	788.7
77.5°	192.2	197.6	231.8	267.7	276.7	278.5	285.7	332.4	422.2	472.5	467.1
80°	100.6	100.6	113.2	113.2	129.4	154.5	161.7	192.2	233.6	258.7	260.5
82.5°	39.5	41.3	48.5	53.9	64.7	79.1	84.4	100.6	122.2	140.1	156.3
85°	16.2	18.0	19.8	23.4	28.7	35.9	37.7	43.1	57.5	71.9	80.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	5.4	7.2	9.0	16.2	21.6
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°	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0
2.5°	3979.5	3956.2	3979.5	3986.7	4006.5	4013.7	4001.1	3999.3	3999.3	3981.3	3976.0
5°	4006.5	3984.9	4008.3	4019.1	4047.8	4065.8	4069.4	4083.8	4092.7	4085.6	4083.8
7.5°	4073.0	4046.0	4071.2	4087.3	4125.1	4153.8	4166.4	4198.7	4222.1	4218.5	4216.7
10°	4189.8	4153.8	4182.6	4209.5	4250.8	4285.0	4286.8	4304.7	4328.1	4320.9	4317.3
12.5°	4324.5	4290.4	4322.7	4349.7	4398.2	4412.5	4389.2	4382.0	4385.6	4376.6	4369.4
15°	4489.8	4441.3	4470.0	4500.6	4527.5	4511.4	4461.0	4441.3	4439.5	4426.9	4419.7
17.5°	4655.1	4594.0	4615.6	4631.7	4619.2	4568.8	4506.0	4471.8	4455.7	4430.5	4423.3
20°	4818.6	4741.3	4737.7	4725.2	4667.7	4576.0	4491.6	4423.3	4382.0	4347.9	4335.3
22.5°	5005.4	4897.6	4843.7	4786.2	4660.5	4511.4	4383.8	4286.8	4220.3	4177.2	4162.8
25°	5206.7	5053.9	4942.5	4827.6	4588.6	4373.0	4195.1	4062.2	3983.1	3936.4	3920.3
27.5°	5406.1	5195.9	5028.8	4833.0	4444.9	4173.6	3934.6	3755.0	3675.9	3638.2	3625.6
30°	5675.6	5384.5	5131.2	4762.9	4256.2	3896.9	3598.7	3417.2	3365.1	3338.2	3327.4
32.5°	5986.4	5623.5	5267.7	4615.6	4015.5	3573.5	3259.1	3133.3	3097.4	3045.3	3043.5
35°	6396.0	5964.8	5397.1	4398.2	3711.9	3226.8	2998.6	2908.8	2844.1	2761.4	2754.2
37.5°	6873.9	6390.6	5467.2	4121.5	3357.9	2941.1	2804.5	2703.9	2599.7	2490.1	2475.8
40°	7368.0	6888.3	5472.6	3794.5	3011.2	2752.4	2637.5	2506.3	2377.0	2254.8	2238.6
42.5°	7887.2	7351.8	5377.3	3417.2	2727.3	2589.0	2472.2	2306.9	2161.4	2078.7	2069.7
45°	8350.8	7725.5	5161.7	3020.1	2517.1	2452.4	2303.3	2125.4	2048.2	1988.9	1976.3
47.5°	8715.5	7973.5	4870.7	2664.4	2346.4	2312.3	2118.2	2026.6	1967.3	1913.4	1900.8
50°	8895.1	8029.2	4491.6	2375.2	2188.3	2147.0	2014.0	1944.0	1904.4	1861.3	1850.5
52.5°	9117.9	8092.1	4164.6	2132.6	2033.8	1978.1	1927.8	1872.1	1843.3	1816.4	1807.4
55°	9630.0	8329.2	3992.1	1938.6	1886.5	1861.3	1854.1	1807.4	1798.4	1780.5	1764.3
57.5°	9838.4	8176.5	3584.3	1780.5	1769.7	1773.3	1791.2	1748.1	1739.1	1717.6	1706.8
60°	7912.4	6180.4	2427.3	1643.9	1672.7	1696.0	1714.0	1670.9	1658.3	1654.7	1640.3
62.5°	5070.1	3801.7	1694.2	1516.4	1559.5	1588.2	1599.0	1557.7	1548.7	1577.4	1579.2
65°	2639.3	2071.5	1374.4	1379.8	1415.7	1458.9	1480.4	1466.1	1462.5	1493.0	1494.8
67.5°	1347.5	1266.6	1198.4	1218.1	1246.9	1302.6	1352.9	1415.7	1437.3	1440.9	1442.7
70°	1148.1	1112.1	1078.0	1090.6	1121.1	1151.6	1200.2	1230.7	1194.8	1185.8	1182.2
72.5°	977.4	950.4	934.3	948.6	964.8	959.4	945.0	959.4	964.8	966.6	968.4
75°	760.0	740.2	727.6	729.4	729.4	709.7	682.7	666.6	648.6	634.2	634.2
77.5°	465.3	468.9	481.5	479.7	477.9	470.7	443.8	429.4	386.3	373.7	373.7
80°	265.9	271.3	283.9	287.5	287.5	278.5	251.5	235.4	215.6	206.6	204.8
82.5°	161.7	168.9	176.1	179.7	181.5	170.7	147.3	134.7	124.0	115.0	115.0
85°	84.4	88.0	95.2	97.0	91.6	80.8	68.3	62.9	52.1	50.3	50.3
87.5°	23.4	25.2	28.7	23.4	21.6	16.2	9.0	7.2	3.6	1.8	1.8
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)