

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: P638775

Luminaire Tested: GWS-SA4F-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

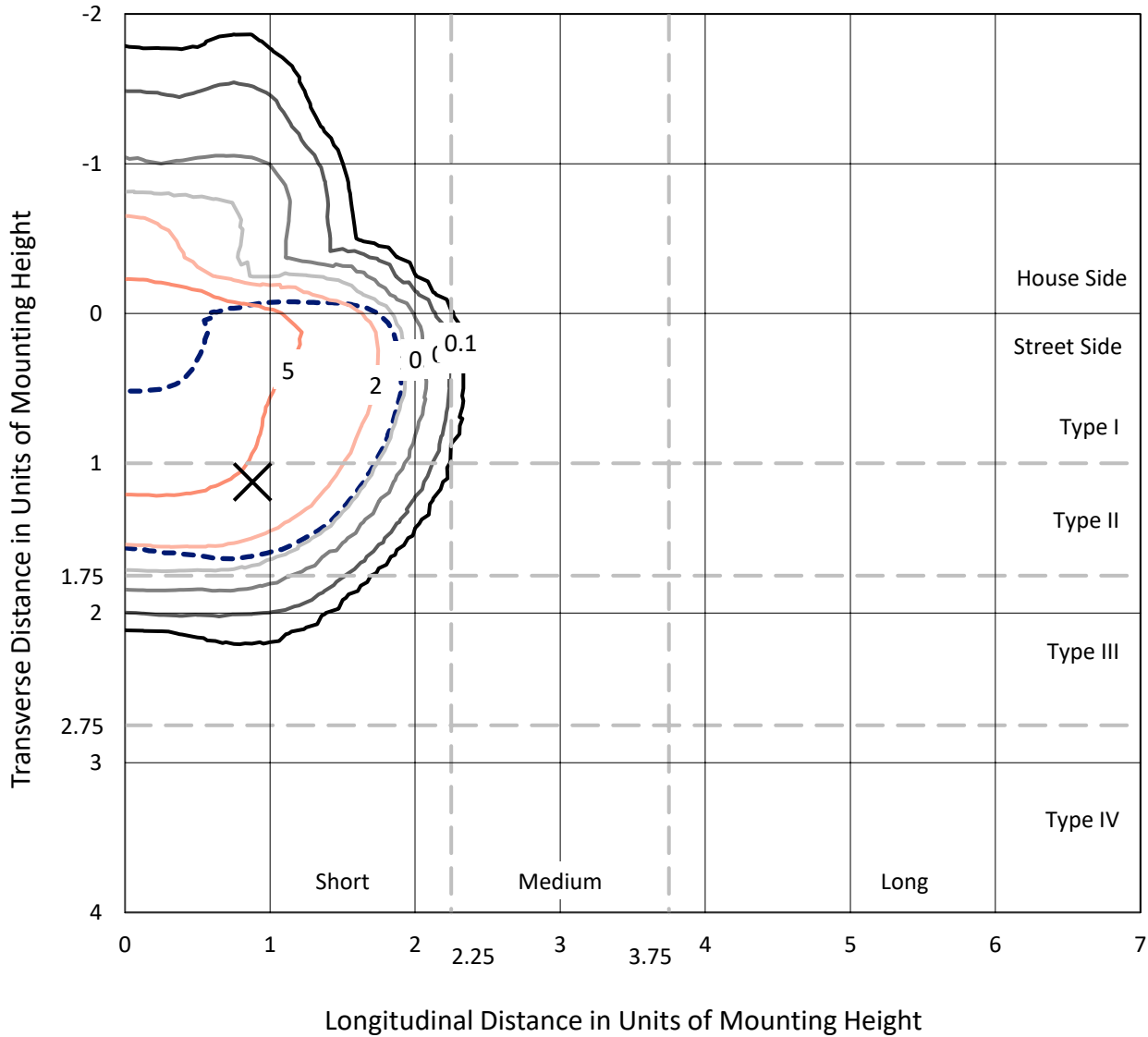
Lumens per Lamp: N/A  
Luminaire Lumens: 21339.9 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

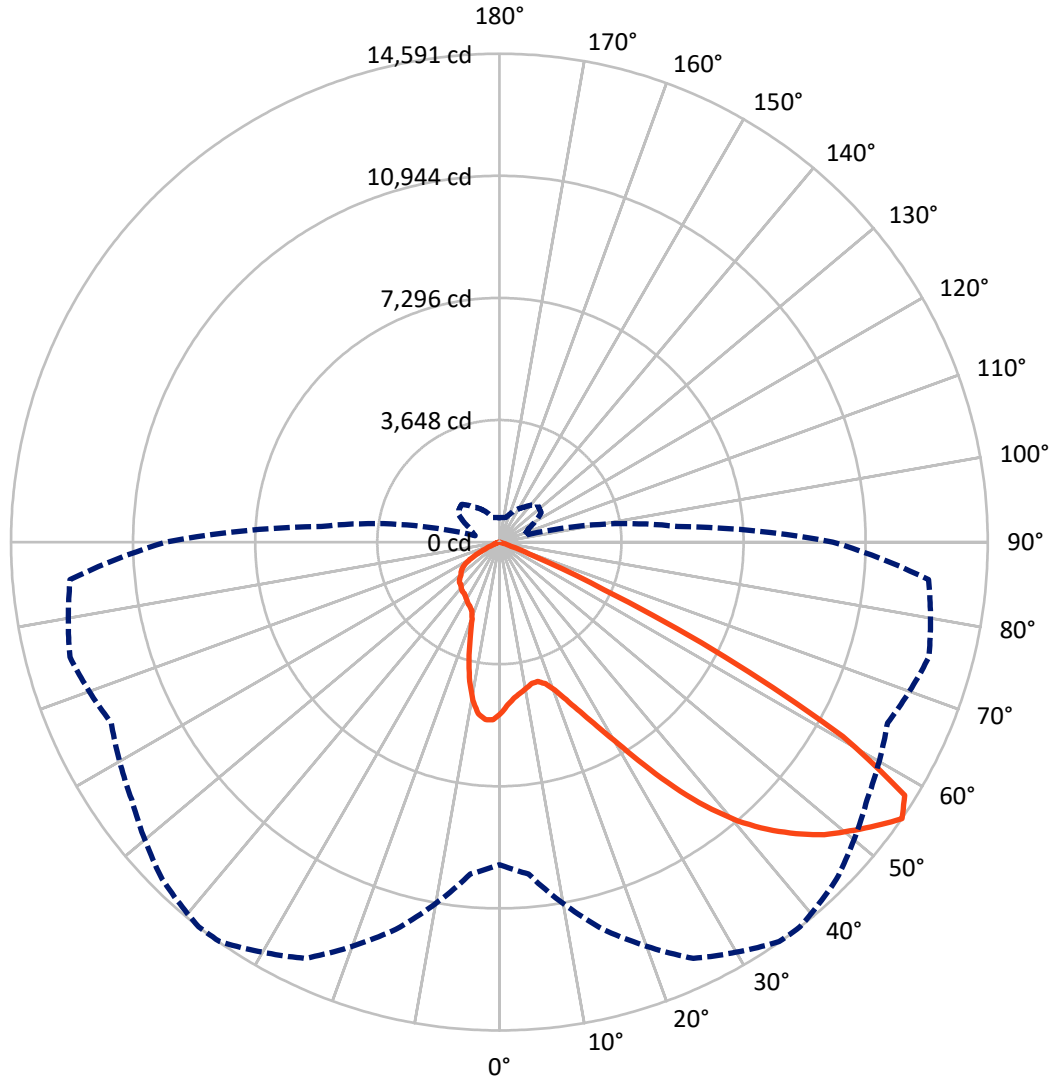
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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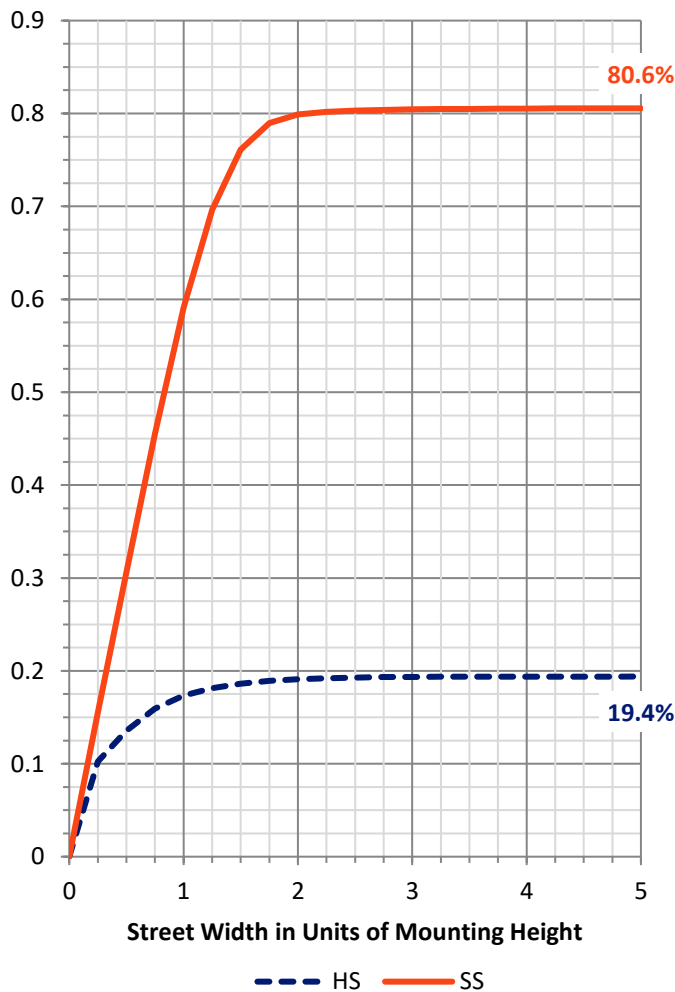
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4157.7	0.0	4157.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	17182.2	0.0	17182.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	21339.9	0.0	21339.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.2	2.2
10°-20°	1273.9	6.0
20°-30°	2186.0	10.2
30°-40°	3625.6	17.0
40°-50°	5329.8	25.0
50°-60°	6228.1	29.2
60°-70°	2111.1	9.9
70°-80°	107.9	0.5
80°-90°	4.2	0.0
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°	21339.9	100.0
0°-180°	21339.9	100.0

**Coefficient of Utilization**



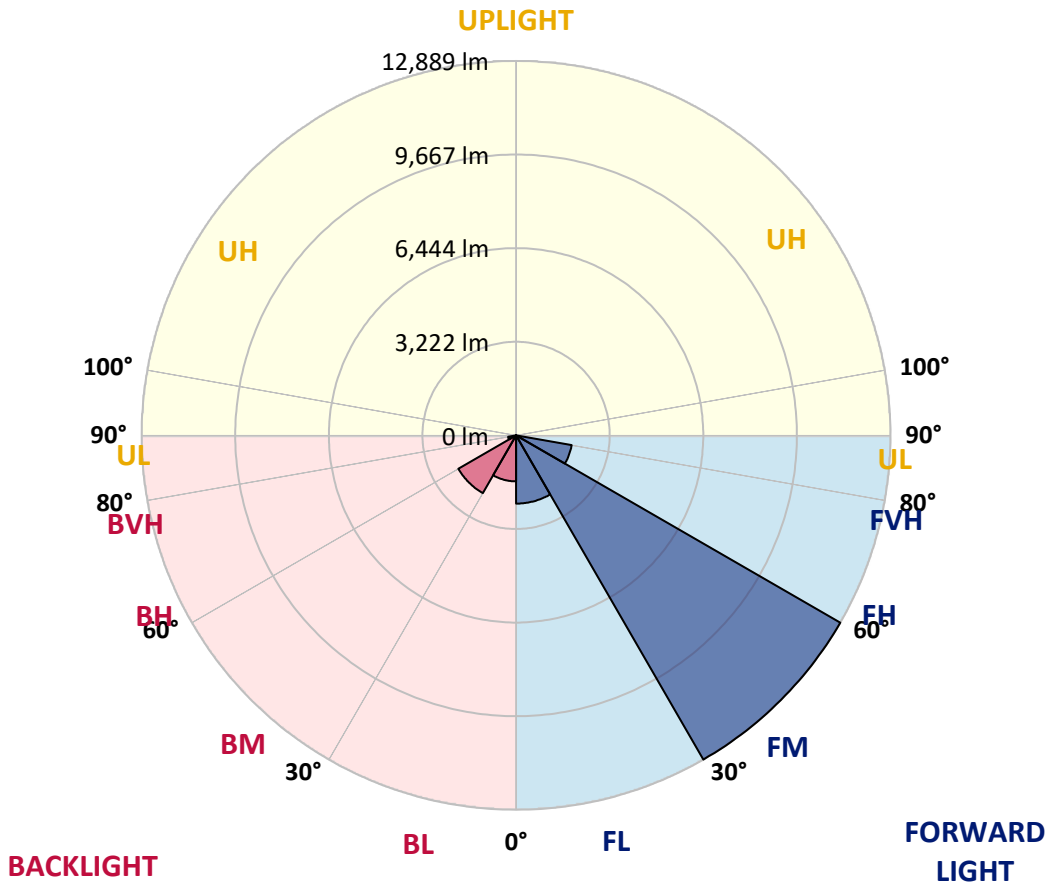
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.0	11.0			
FM (30°-60°)	12888.7	60.4			
FH (60°-80°)	1942.3	9.1			G2/5000
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1584.0	7.4	B3/2500		
BM (30°-60°)	2294.9	10.8	B2/2500		
BH (60°-80°)	276.8	1.3	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5
2.5°	4766.2	4756.5	4776.0	4815.0	4851.6	4863.8	4900.4	4951.6	4983.3	5058.9	5119.9
5°	4551.6	4546.7	4566.2	4600.4	4649.1	4666.2	4722.3	4807.7	4893.1	5024.8	5154.1
7.5°	4356.4	4354.0	4383.3	4458.9	4529.6	4551.6	4619.9	4724.8	4839.4	5041.9	5232.1
10°	4100.3	4102.8	4158.9	4266.2	4395.5	4439.4	4549.1	4700.4	4849.2	5110.2	5373.6
12.5°	4017.4	4022.3	4051.5	4134.5	4275.9	4332.0	4485.7	4715.0	4905.3	5207.7	5556.5
15°	4219.8	4219.8	4195.4	4205.2	4268.6	4319.8	4480.8	4763.8	5000.4	5324.8	5737.0
17.5°	4612.6	4597.9	4536.9	4454.0	4432.1	4449.1	4578.4	4868.7	5134.5	5461.4	5941.9
20°	5144.3	5149.2	5029.7	4856.5	4717.4	4715.0	4793.1	5054.1	5327.2	5624.8	6163.9
22.5°	5788.3	5768.7	5610.2	5373.6	5132.1	5112.6	5144.3	5337.0	5605.3	5883.4	6437.1
25°	6534.7	6524.9	6300.5	5983.4	5663.9	5617.5	5617.5	5807.8	6002.9	6251.7	6763.9
27.5°	7315.2	7315.2	7098.1	6732.2	6307.8	6224.9	6212.7	6437.1	6566.4	6615.1	7039.6
30°	8117.7	8107.9	7893.3	7517.7	7064.0	6978.6	6944.4	7110.3	7203.0	7056.6	7383.5
32.5°	8932.4	8949.5	8732.4	8383.6	7978.7	7922.6	7817.7	7817.7	7893.3	7688.4	7925.0
35°	9808.1	9803.2	9632.5	9395.9	9049.5	8986.1	8812.9	8542.1	8656.8	8566.5	8673.8
37.5°	10581.3	10617.9	10535.0	10359.3	10078.8	10015.4	9730.0	9239.7	9327.6	9469.0	9564.2
40°	11366.7	11396.0	11478.9	11422.8	11069.2	10952.1	10444.7	9639.8	9737.3	10222.7	10495.9
42.5°	12137.5	12152.2	12320.5	12413.2	11940.0	11735.1	10986.2	9883.7	9986.1	10813.0	11291.1
45°	12627.8	12659.5	12937.6	13220.5	12708.3	12427.8	11457.0	10195.9	10239.8	11222.8	11879.0
47.5°	12608.3	12681.5	13203.5	13718.1	13369.3	13066.9	12022.9	10696.0	10622.8	11608.2	12266.8
50°	12215.6	12303.4	13052.2	13869.4	13845.0	13564.5	12652.2	11420.4	11191.1	11949.7	12315.6
52.5°	11400.9	11654.6	12786.4	13888.9	14227.9	14086.5	13430.3	12396.1	11959.5	12440.0	12393.6
55°	9639.8	9952.0	11979.0	13723.0	14574.3	14591.4	14247.5	13413.2	12793.7	13284.0	12874.2
57.5°	7317.6	7566.4	9220.2	12215.6	14001.1	14281.6	14564.5	13949.9	13308.4	13859.6	12986.4
60°	4410.1	4697.9	5773.6	8964.1	11308.2	11786.3	12896.1	12776.6	12003.4	12240.0	10649.6
62.5°	1787.9	1939.2	2666.1	4939.4	7117.6	7564.0	8627.5	8808.0	8617.7	8376.3	6459.0
65°	653.7	714.7	1068.4	2041.6	3273.4	3436.9	3997.9	4317.4	4580.8	3900.3	2402.6
67.5°	404.9	443.9	695.2	1048.9	1190.3	1107.4	1126.9	1344.0	1283.0	792.7	429.3
70°	300.0	331.7	543.9	726.9	480.5	370.8	251.2	268.3	241.5	212.2	209.8
72.5°	207.3	236.6	407.3	429.3	185.4	131.7	92.7	129.3	146.4	143.9	148.8
75°	136.6	158.5	256.1	168.3	46.3	36.6	31.7	68.3	87.8	87.8	90.3
77.5°	80.5	92.7	90.3	34.1	9.8	9.8	7.3	12.2	19.5	22.0	26.8
80°	9.8	7.3	4.9	4.9	4.9	4.9	4.9	4.9	7.3	7.3	7.3
82.5°	2.4	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9	7.3	7.3
85°	0.0	0.0	2.4	2.4	4.9	4.9	4.9	4.9	4.9	7.3	7.3
87.5°	0.0	0.0	2.4	2.4	4.9	4.9	4.9	4.9	4.9	7.3	7.3
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°	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5	5117.5
2.5°	5166.3	5149.2	5219.9	5271.1	5312.6	5332.1	5305.3	5302.9	5302.9	5249.2	5234.6
5°	5227.2	5234.6	5334.6	5378.5	5385.8	5361.4	5300.4	5258.9	5234.6	5178.5	5146.7
7.5°	5344.3	5368.7	5463.8	5456.5	5390.7	5278.5	5117.5	4993.1	4912.6	4824.8	4771.1
10°	5512.6	5559.0	5617.5	5515.1	5305.3	5019.9	4688.2	4451.6	4310.1	4210.1	4149.1
12.5°	5717.5	5763.9	5744.3	5502.9	5066.2	4556.5	4129.6	3788.1	3624.7	3534.4	3471.0
15°	5924.9	5954.1	5827.3	5356.5	4644.3	3958.8	3483.2	3144.1	2944.1	2871.0	2817.3
17.5°	6137.1	6129.7	5841.9	5068.7	4080.8	3285.6	2817.3	2585.6	2529.5	2517.3	2512.4
20°	6359.0	6293.2	5783.4	4656.5	3402.7	2619.7	2353.8	2368.5	2470.9	2519.7	2529.5
22.5°	6612.7	6446.8	5637.0	4097.9	2710.0	2183.1	2209.9	2353.8	2492.9	2558.7	2568.5
25°	6883.5	6588.3	5393.1	3380.8	2136.8	2007.5	2166.0	2331.9	2480.7	2561.2	2570.9
27.5°	7061.5	6622.5	4993.1	2658.7	1834.3	1939.2	2107.5	2266.0	2419.7	2507.5	2519.7
30°	7254.2	6607.8	4449.1	2048.9	1731.8	1880.6	2027.0	2170.9	2312.4	2409.9	2419.7
32.5°	7537.2	6598.1	3785.7	1663.5	1690.4	1834.3	1941.6	2061.1	2158.7	2214.8	2207.5
35°	7907.9	6585.9	3012.4	1500.1	1666.0	1797.7	1883.1	1939.2	1831.8	1797.7	1805.0
37.5°	8383.6	6615.1	2361.2	1431.8	1658.7	1787.9	1861.1	1700.1	1534.3	1470.8	1461.1
40°	8910.4	6690.8	1800.1	1405.0	1683.1	1812.3	1778.2	1512.3	1307.4	1183.0	1156.2
42.5°	9439.8	6773.7	1424.5	1395.2	1724.5	1880.6	1641.6	1375.7	1068.4	997.6	987.9
45°	9832.5	6759.1	1231.8	1378.2	1761.1	1919.7	1605.0	1180.6	953.7	922.0	924.5
47.5°	10030.0	6598.1	1126.9	1339.1	1775.7	1880.6	1514.8	1100.1	875.7	909.8	939.1
50°	9925.2	6181.0	1029.3	1263.5	1744.0	1829.4	1370.8	1039.1	836.7	978.1	1044.0
52.5°	9798.3	5668.7	922.0	1146.4	1668.4	1758.7	1314.7	1022.0	812.3	944.0	992.8
55°	9966.6	5344.3	746.4	965.9	1519.6	1592.8	1270.8	1019.6	756.2	734.2	726.9
57.5°	9730.0	4697.9	534.2	695.2	1165.9	1261.1	1239.1	1002.5	670.8	668.3	678.1
60°	7520.1	2866.1	365.9	441.5	714.7	804.9	1124.5	958.6	578.1	531.7	534.2
62.5°	4273.5	1219.6	251.2	273.2	365.9	434.2	858.6	870.8	534.2	507.4	534.2
65°	1487.9	436.6	195.1	182.9	202.5	231.7	492.7	673.2	485.4	439.1	443.9
67.5°	307.3	217.1	173.2	151.2	151.2	151.2	251.2	419.5	400.0	348.8	353.7
70°	195.1	185.4	151.2	129.3	124.4	114.6	143.9	231.7	275.6	253.7	256.1
72.5°	143.9	141.5	119.5	104.9	92.7	82.9	90.3	114.6	141.5	146.4	148.8
75°	87.8	90.3	78.1	65.9	58.5	51.2	53.7	53.7	53.7	48.8	53.7
77.5°	26.8	29.3	24.4	19.5	17.1	17.1	17.1	14.6	12.2	7.3	7.3
80°	7.3	7.3	7.3	7.3	7.3	4.9	4.9	2.4	2.4	0.0	0.0
82.5°	7.3	7.3	7.3	7.3	4.9	4.9	2.4	2.4	0.0	0.0	0.0
85°	7.3	7.3	7.3	7.3	4.9	4.9	2.4	2.4	0.0	0.0	0.0
87.5°	7.3	7.3	7.3	7.3	4.9	4.9	2.4	2.4	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)