

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: P643483

Luminaire Tested: GWS-SA6F-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35208.4 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

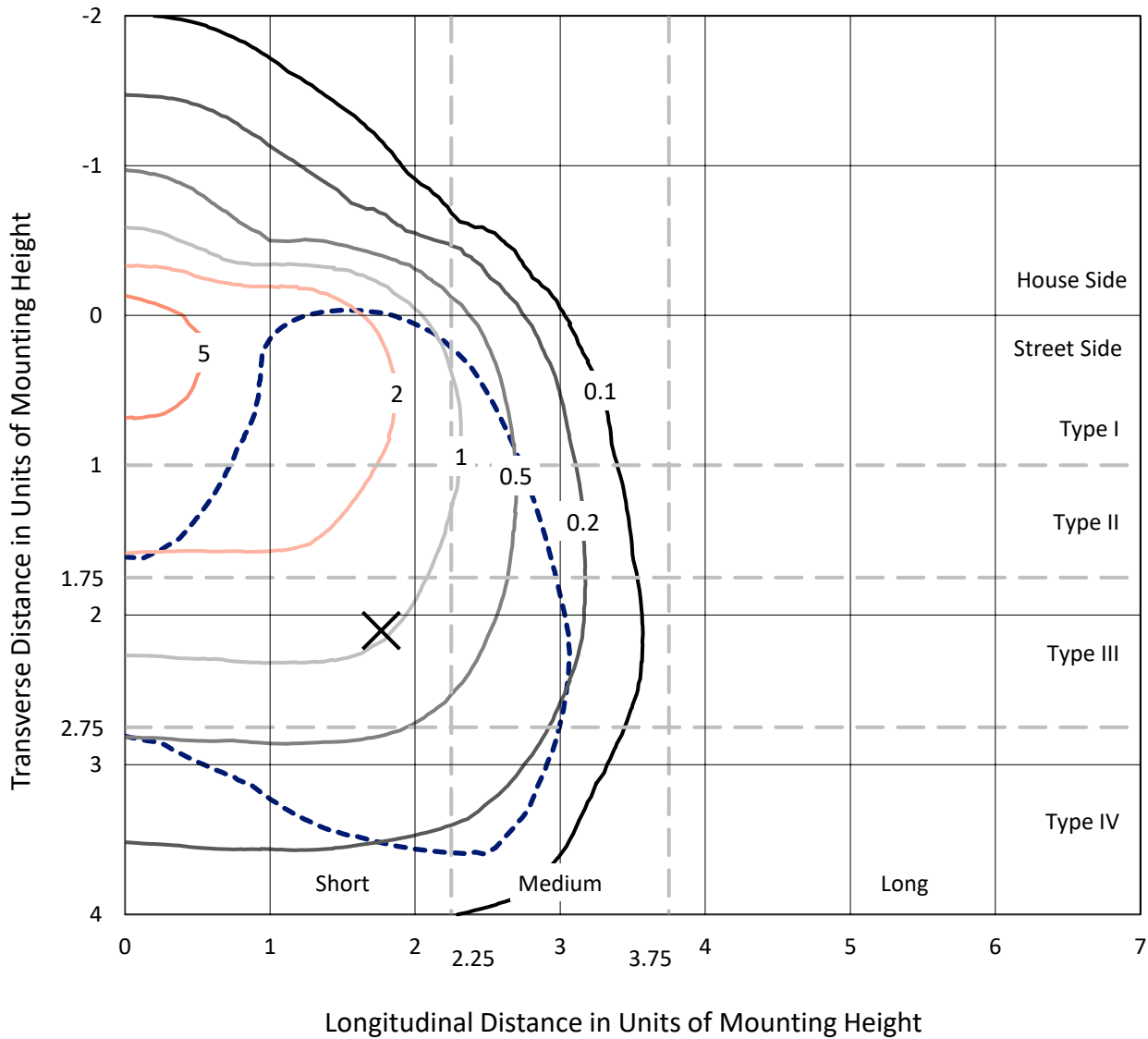
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

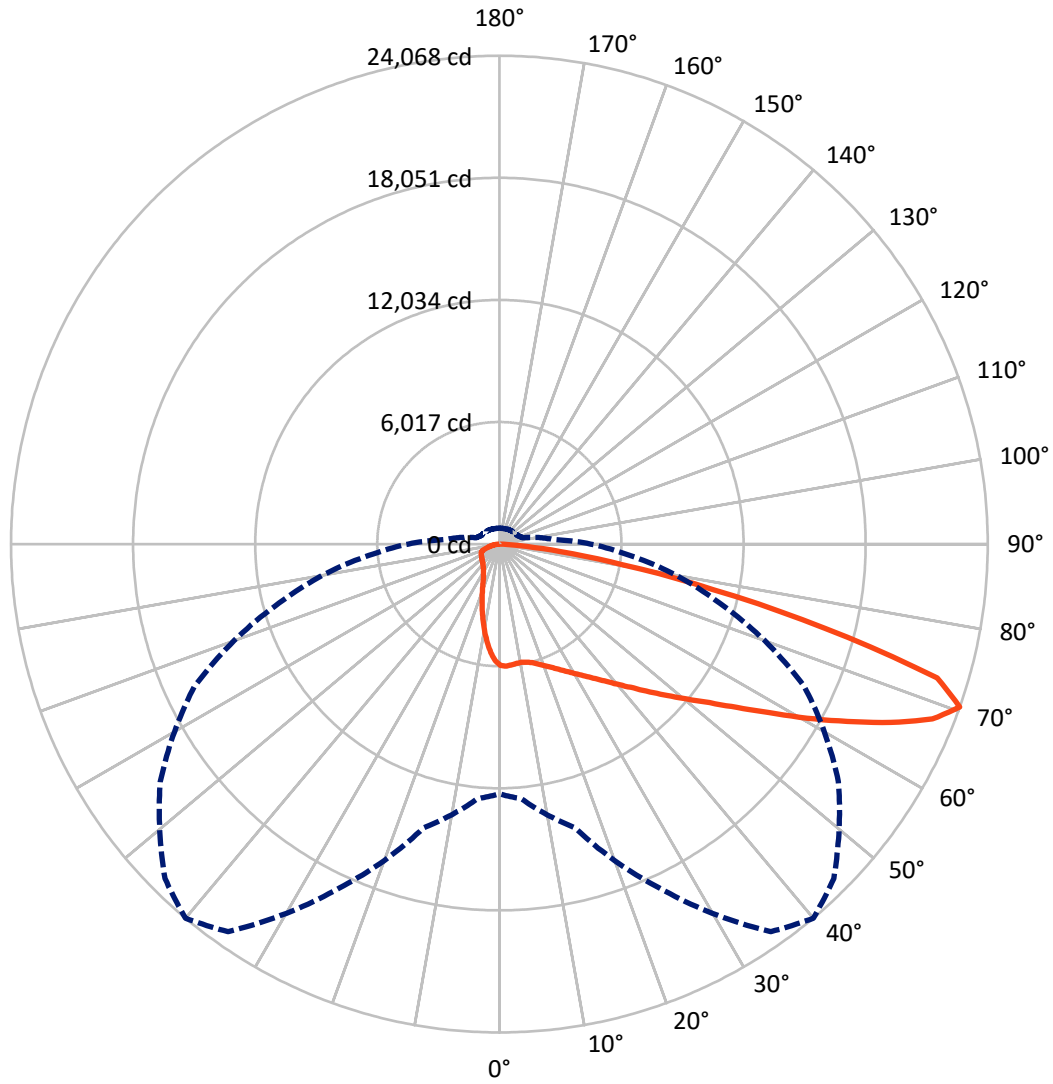
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5423.0	0.0	5423.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	29785.4	0.0	29785.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	35208.4	0.0	35208.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.2	1.5
10°-20°	1376.7	3.9
20°-30°	2161.7	6.1
30°-40°	3250.2	9.2
40°-50°	5016.8	14.2
50°-60°	7450.3	21.2
60°-70°	9391.0	26.7
70°-80°	5430.8	15.4
80°-90°	602.7	1.7
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°	35208.4	100.0
0°-180°	35208.4	100.0

Coefficient of Utilization



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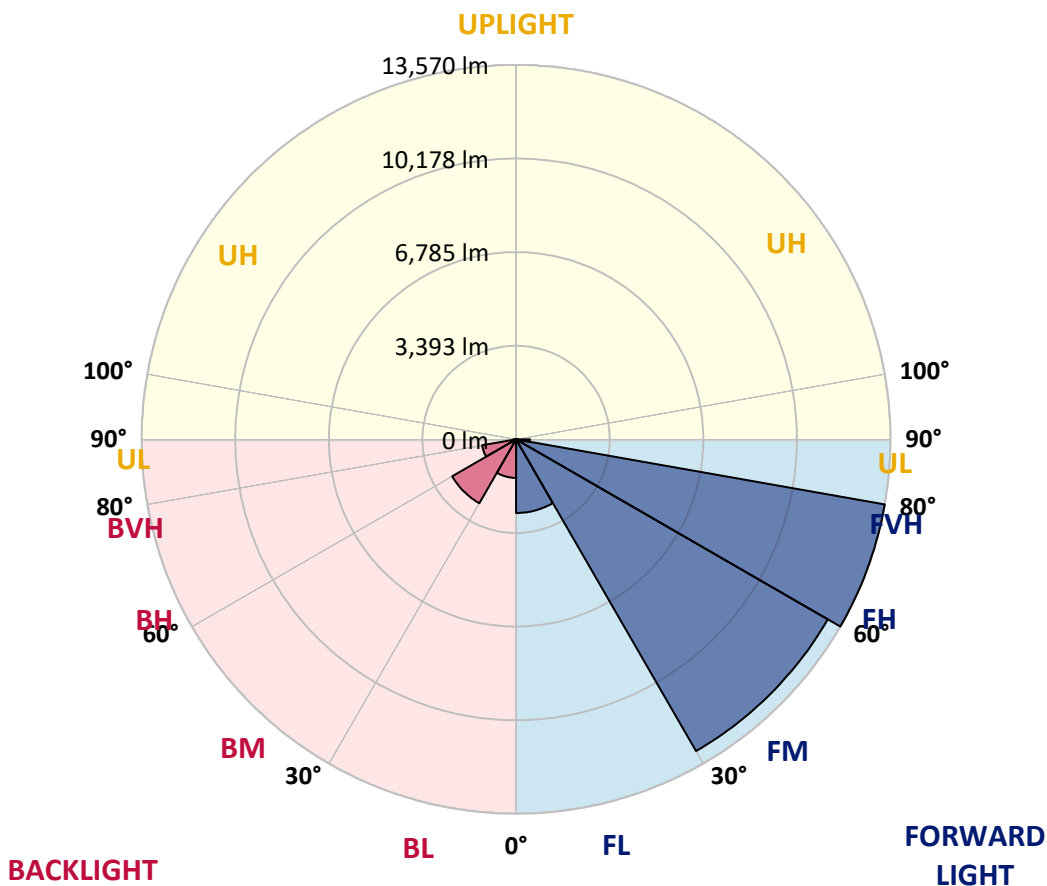
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2669.1	7.6			
FM (30°-60°)	13044.3	37.0			
FH (60°-80°)	13570.1	38.5			G5
FVH (80°-90°)	502.0	1.4			G4/750
BL (0°-30°)	1397.6	4.0	B3/2500		
BM (30°-60°)	2673.0	7.6	B3/5000		
BH (60°-80°)	1251.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	100.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8
2.5°	6015.6	6026.1	6034.0	6044.5	6039.2	6023.5	6036.6	6036.6	6007.7	5976.2	5947.3
5°	6023.5	6036.6	6034.0	6031.4	6010.3	5984.0	5984.0	5968.3	5918.3	5868.4	5821.1
7.5°	6007.7	6005.1	6002.4	5994.6	5970.9	5942.0	5936.7	5905.2	5839.5	5771.2	5702.8
10°	5936.7	5934.1	5942.0	5960.4	5955.1	5928.9	5928.9	5899.9	5823.7	5739.6	5650.3
12.5°	5878.9	5878.9	5910.5	5960.4	5978.8	5968.3	5970.9	5949.9	5863.2	5763.3	5658.2
15°	5886.8	5889.4	5957.8	6039.2	6073.4	6065.5	6068.1	6044.5	5947.3	5847.4	5705.5
17.5°	5939.4	5952.5	6070.8	6183.8	6228.5	6217.9	6199.5	6160.1	6049.7	5936.7	5763.3
20°	6049.7	6070.8	6223.2	6365.1	6417.7	6394.0	6362.5	6283.6	6162.8	6039.2	5826.4
22.5°	6267.9	6281.0	6449.2	6588.5	6630.5	6601.6	6538.6	6425.6	6286.3	6157.5	5902.6
25°	6575.4	6591.1	6751.4	6880.2	6869.7	6835.5	6748.8	6609.5	6444.0	6307.3	6013.0
27.5°	6940.7	6966.9	7124.6	7227.1	7158.8	7108.8	7011.6	6843.4	6656.8	6533.3	6181.1
30°	7340.1	7350.6	7484.7	7587.2	7482.0	7413.7	7295.4	7114.1	6945.9	6853.9	6433.4
32.5°	7726.4	7736.9	7852.6	7910.4	7800.0	7750.1	7647.6	7455.7	7337.5	7287.6	6809.3
35°	8133.8	8131.2	8225.8	8275.7	8162.7	8141.7	8036.5	7889.4	7868.4	7934.1	7358.5
37.5°	8541.1	8517.5	8567.4	8633.1	8570.0	8591.1	8522.7	8472.8	8554.3	8725.1	8089.1
40°	8867.0	8867.0	8919.6	9001.0	9022.1	9114.0	9074.6	9140.3	9403.1	9810.5	8993.2
42.5°	9156.1	9158.7	9269.1	9395.2	9547.7	9689.6	9721.1	9891.9	10435.9	11074.6	10128.5
45°	9458.3	9460.9	9610.7	9794.7	10118.0	10388.6	10451.7	10835.4	11613.3	12391.2	11361.0
47.5°	9807.8	9778.9	9986.6	10294.0	10753.9	11142.9	11305.8	11849.8	12832.7	13789.3	12522.6
50°	10202.0	10141.6	10372.9	10903.7	11471.4	12004.9	12278.2	12901.0	14141.5	15079.7	13615.9
52.5°	10646.2	10612.0	10853.8	11500.3	12367.6	12982.5	13353.1	14170.4	15413.5	16364.8	14483.1
55°	11198.1	11116.6	11466.1	12288.7	13418.8	14201.9	14640.8	15426.6	16803.7	17531.7	15145.4
57.5°	11802.5	11713.2	12181.0	13274.2	14785.4	15644.7	16194.0	16840.5	18112.4	18425.2	15534.3
60°	12454.3	12425.4	12979.9	14430.6	16414.7	17413.4	17810.2	18396.3	19250.4	18942.9	15437.1
62.5°	13050.8	13040.3	13847.1	15684.1	18141.4	19239.9	19555.2	19710.3	20070.3	18908.7	14664.5
65°	13678.9	13768.3	14858.9	17137.4	20120.3	21197.8	21329.2	20935.0	20346.3	18012.6	13082.4
67.5°	13757.8	13931.2	15494.9	18498.8	21996.7	23013.7	22908.6	21400.1	19531.6	15518.6	10254.6
70°	12304.5	12606.7	14480.5	18706.4	23318.6	24067.6	23308.1	20398.8	16575.0	11242.8	6449.2
72.5°	10280.9	10541.1	12196.7	15952.2	21613.0	22567.0	21539.4	17266.2	11713.2	6449.2	3285.0
75°	8002.4	8304.6	9831.5	12680.3	16180.8	16561.9	16046.8	12041.7	6438.7	2659.6	1492.7
77.5°	4882.9	5101.0	6288.9	8591.1	11321.6	10751.3	9111.4	6751.4	2825.1	1274.6	922.4
80°	2160.2	2294.3	3098.5	4614.8	6541.2	6183.8	4875.0	2883.0	1545.3	809.4	643.9
82.5°	1159.0	1245.7	1526.9	1826.5	2872.4	3003.8	2436.2	1660.9	830.5	462.5	367.9
85°	509.8	559.8	693.8	662.3	943.5	927.7	935.6	1140.6	396.8	212.9	239.2
87.5°	0.0	0.0	0.0	0.0	2.6	2.6	28.9	152.4	39.4	63.1	55.2
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°	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8
2.5°	5915.7	5868.4	5855.3	5839.5	5810.6	5760.7	5723.9	5681.8	5663.4	5642.4	5645.0
5°	5768.5	5710.7	5655.5	5584.6	5495.2	5395.4	5327.0	5248.2	5206.1	5166.7	5177.2
7.5°	5642.4	5553.0	5440.0	5290.2	5129.9	4951.2	4806.7	4693.7	4617.5	4564.9	4591.2
10°	5563.6	5458.4	5261.3	5016.9	4746.2	4472.9	4265.3	4070.8	3949.9	3855.3	3850.1
12.5°	5547.8	5411.1	5124.7	4769.9	4378.3	4013.0	3708.2	3445.4	3285.0	3166.8	3211.5
15°	5563.6	5390.1	5006.4	4541.3	4047.2	3553.1	3174.7	2872.4	2680.6	2572.9	2565.0
17.5°	5582.0	5369.1	4872.4	4294.2	3700.3	3135.3	2696.4	2375.7	2178.6	2070.9	2073.5
20°	5597.7	5337.5	4714.7	4023.5	3348.1	2746.3	2291.7	1986.8	1810.7	1731.9	1745.0
22.5°	5624.0	5306.0	4546.5	3734.4	2988.1	2370.5	1971.0	1724.0	1618.9	1566.3	1568.9
25°	5673.9	5287.6	4373.1	3419.1	2633.3	2070.9	1750.3	1584.7	1519.0	1487.5	1484.8
27.5°	5776.4	5303.4	4191.7	3114.2	2312.7	1842.3	1608.4	1500.6	1455.9	1434.9	1432.3
30°	5947.3	5366.5	4034.0	2804.1	2036.7	1663.5	1511.1	1445.4	1419.1	1400.7	1398.1
32.5°	6207.4	5484.7	3863.2	2515.0	1813.3	1532.1	1434.9	1400.7	1382.3	1371.8	1371.8
35°	6601.6	5700.2	3695.0	2262.7	1639.9	1429.7	1374.5	1361.3	1345.6	1340.3	1345.6
37.5°	7169.3	6044.5	3542.6	2042.0	1516.4	1350.8	1308.8	1314.0	1300.9	1308.8	1316.6
40°	7889.4	6504.4	3413.8	1860.7	1424.4	1293.0	1250.9	1269.3	1261.5	1269.3	1282.5
42.5°	8801.3	7074.7	3316.6	1718.7	1358.7	1245.7	1206.3	1224.7	1219.4	1229.9	1243.1
45°	9818.4	7826.3	3271.9	1618.9	1311.4	1211.5	1169.5	1182.6	1177.4	1185.2	1198.4
47.5°	10793.4	8509.6	3311.3	1561.1	1272.0	1182.6	1137.9	1143.2	1140.6	1137.9	1145.8
50°	11634.3	9053.6	3424.3	1542.7	1245.7	1153.7	1111.7	1114.3	1106.4	1090.6	1095.9
52.5°	12320.2	9489.9	3492.7	1542.7	1232.6	1122.2	1082.8	1085.4	1069.6	1048.6	1051.2
55°	12772.3	9665.9	3437.5	1540.0	1227.3	1095.9	1053.8	1056.5	1040.7	1014.4	1017.1
57.5°	12901.0	9495.1	3206.2	1511.1	1222.0	1074.9	1024.9	1030.2	1019.7	990.8	990.8
60°	12541.0	8869.6	2783.1	1445.4	1208.9	1061.7	1003.9	1011.8	1006.5	977.6	977.6
62.5°	11597.5	7758.0	2278.5	1345.6	1172.1	1046.0	985.5	1001.3	1014.4	998.7	996.0
65°	9831.5	6215.3	1852.8	1235.2	1124.8	1019.7	959.2	998.7	1027.6	1048.6	1048.6
67.5°	7376.9	4449.3	1511.1	1119.5	1053.8	967.1	925.1	961.9	982.9	996.0	1003.9
70°	4496.6	2617.5	1190.5	985.5	951.4	888.3	856.7	819.9	791.0	785.8	788.4
72.5°	2199.7	1498.0	967.1	838.3	812.1	754.2	683.3	667.5	654.4	646.5	643.9
75°	1211.5	1043.3	798.9	696.4	649.1	578.2	562.4	536.1	530.9	520.4	523.0
77.5°	856.7	822.6	659.6	565.0	494.1	457.3	465.2	446.8	446.8	438.9	436.3
80°	643.9	646.5	507.2	412.6	365.3	352.2	360.0	360.0	354.8	352.2	349.5
82.5°	407.3	459.9	341.6	265.4	260.2	262.8	260.2	257.5	262.8	254.9	252.3
85°	281.2	331.1	207.6	157.7	157.7	155.1	160.3	157.7	162.9	155.1	155.1
87.5°	63.1	147.2	76.2	47.3	49.9	47.3	49.9	52.6	57.8	60.4	60.4
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)