

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: P641983

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-722-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

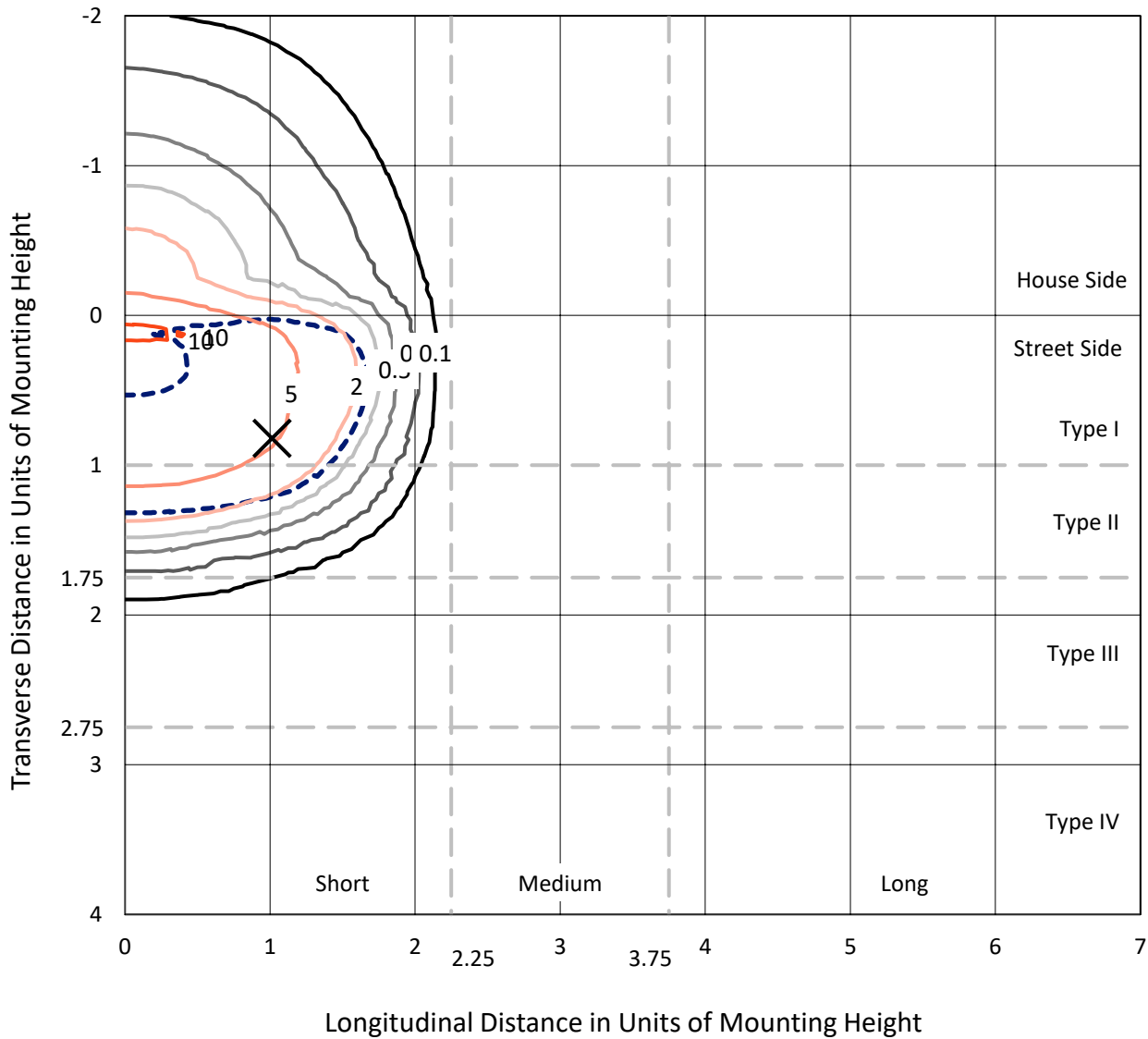
Lumens per Lamp: N/A  
Luminaire Lumens: 18974.5 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

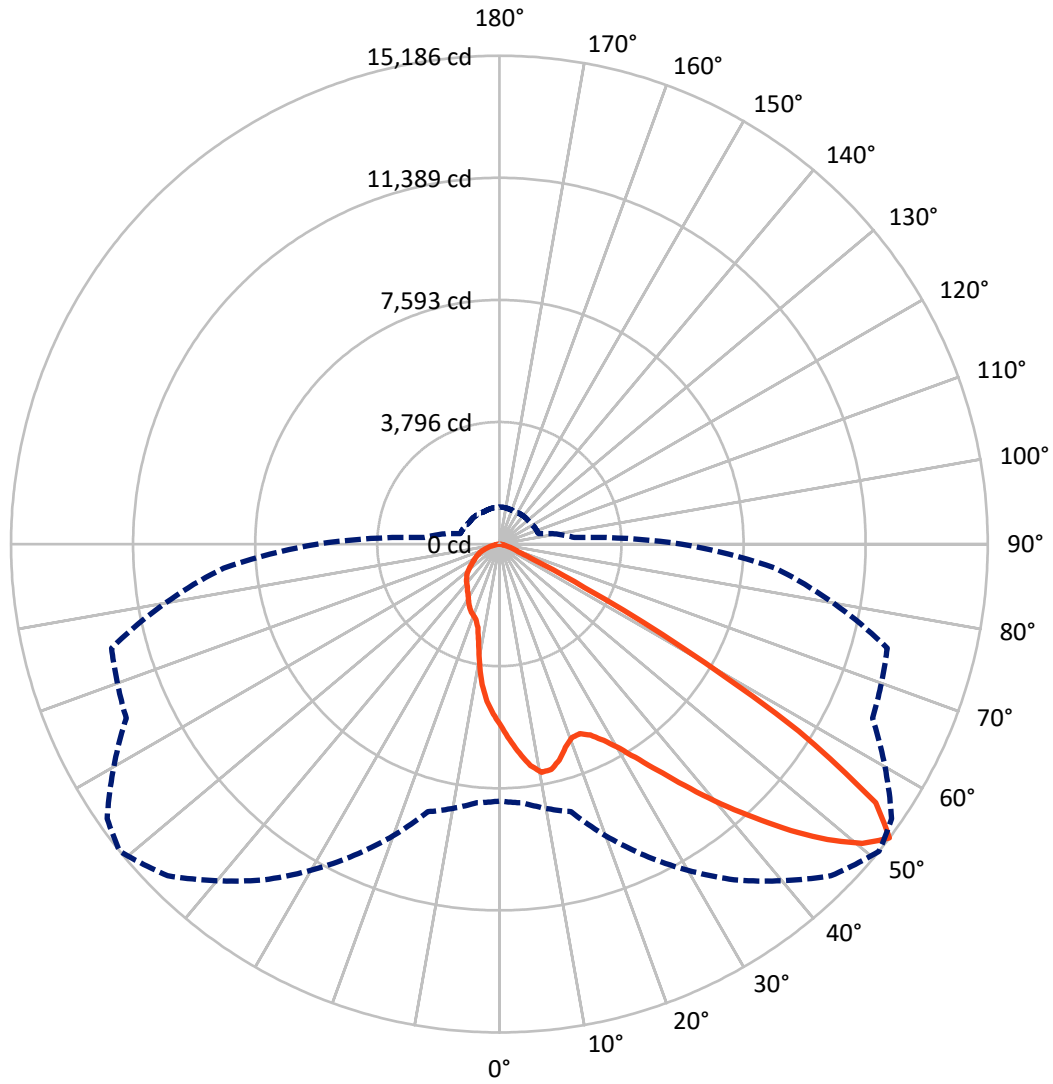
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3697.0	0.0	3697.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	15277.5	0.0	15277.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	18974.5	0.0	18974.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.2	2.8
10°-20°	1369.9	7.2
20°-30°	2227.3	11.7
30°-40°	3529.7	18.6
40°-50°	5323.6	28.1
50°-60°	4605.3	24.3
60°-70°	1044.1	5.5
70°-80°	307.9	1.6
80°-90°	39.7	0.2
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°	18974.5	100.0
0°-180°	18974.5	100.0

**Coefficient of Utilization**



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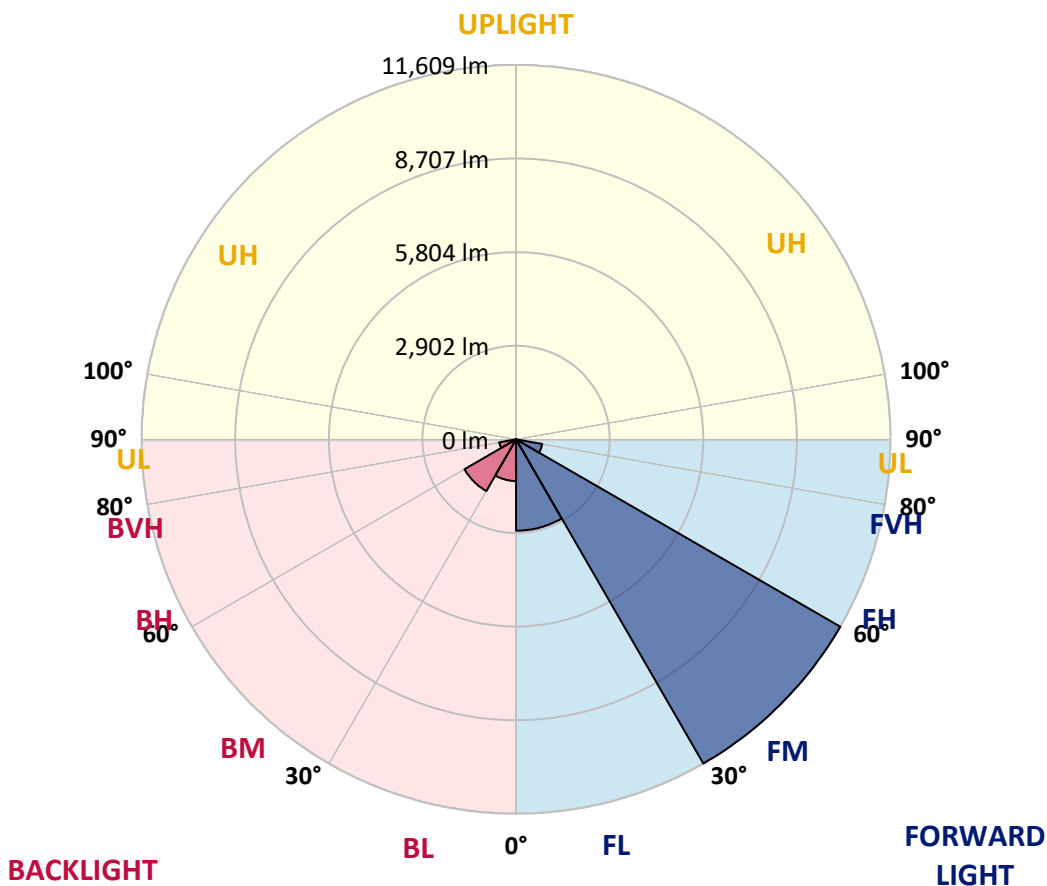
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2832.0	14.9			
FM (30°-60°)	11608.9	61.2			
FH (60°-80°)	821.7	4.3			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	1292.3	6.8	B3/2500		
BM (30°-60°)	1849.7	9.7	B2/2500		
BH (60°-80°)	530.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	24.7	0.1			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°	51°	55°	65°	75°	85°
0°	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7
2.5°	6295.9	6331.9	6276.4	6255.4	6220.9	6160.9	6092.0	6072.5	5924.0	5826.6	5717.1
5°	6928.6	6948.1	6903.1	6858.2	6772.7	6666.2	6532.8	6504.3	6234.4	6011.0	5778.6
7.5°	7069.6	7062.1	7101.1	7126.5	7116.0	7074.1	6955.6	6900.1	6577.8	6223.9	5880.6
10°	6511.8	6469.8	6613.8	6784.7	6990.1	7227.0	7213.5	7209.0	6928.6	6510.3	6011.0
12.5°	5772.6	5751.6	5868.6	6083.0	6471.3	6996.1	7192.5	7345.5	7245.0	6783.2	6156.4
15°	5349.8	5342.3	5421.7	5576.2	5885.1	6547.8	6967.6	7270.5	7516.4	7075.6	6310.9
17.5°	5273.3	5277.8	5304.8	5393.3	5615.2	6160.9	6646.7	7069.6	7727.8	7396.4	6504.3
20°	5496.7	5526.7	5480.2	5493.7	5613.7	6021.5	6427.8	6867.2	7862.7	7718.8	6712.7
22.5°	5993.0	5982.5	5880.6	5820.6	5822.1	6107.0	6403.8	6772.7	7951.2	8032.2	6901.6
25°	6555.3	6543.3	6421.8	6288.4	6204.4	6339.4	6576.3	6873.1	8030.7	8318.5	7053.1
27.5°	7219.5	7182.0	7047.1	6876.1	6690.2	6748.7	6909.1	7144.5	8153.6	8600.4	7153.5
30°	7862.7	7906.2	7712.8	7510.4	7314.0	7278.0	7370.9	7583.9	8404.0	8930.3	7273.5
32.5°	8715.9	8700.9	8486.5	8222.6	7942.2	7915.2	7988.7	8183.6	8853.8	9386.1	7456.4
35°	9749.0	9752.0	9447.6	9090.7	8691.9	8619.9	8742.9	8931.8	9524.0	10003.8	7745.8
37.5°	10822.5	10818.0	10552.6	10147.8	9603.5	9501.6	9642.5	9783.4	10362.2	10845.0	8195.6
40°	11575.2	11605.2	11480.7	11267.8	10752.0	10503.1	10627.6	10725.0	11273.8	11834.6	8787.9
42.5°	12002.5	12047.5	12074.5	12201.9	11930.5	11665.2	11620.2	11671.2	12088.0	12753.7	9344.1
45°	12094.0	12154.0	12350.4	12822.7	12927.6	12852.7	12705.7	12582.8	12695.2	13405.9	9708.5
47.5°	11690.6	11795.6	12215.4	13041.6	13654.8	13890.2	13726.8	13539.4	13046.1	13573.9	9671.0
50°	10092.3	10215.3	11161.4	12594.8	13758.3	14615.9	14630.9	14353.5	13004.1	13089.6	9200.2
52.5°	7990.2	8074.1	8615.4	10677.1	12743.2	14585.9	15185.7	14888.8	12801.7	12483.8	8610.9
55°	4775.5	4910.5	5415.8	7044.1	9927.4	12927.6	14205.1	14349.0	12702.7	11975.5	8209.1
57.5°	1611.8	1677.8	2160.6	3111.2	5850.6	9465.6	10975.4	11560.2	11531.7	11198.9	7424.9
60°	767.7	782.7	880.1	1180.0	2342.0	4946.4	6496.8	7171.5	7786.3	7847.7	4619.6
62.5°	584.8	593.8	643.2	707.7	941.6	2084.1	2977.8	3493.6	3732.0	3202.7	1682.3
65°	488.8	496.3	533.8	574.3	640.2	902.6	1142.5	1318.0	1187.5	925.1	802.2
67.5°	407.8	413.8	442.3	485.8	530.8	604.2	634.2	652.2	683.7	767.7	737.7
70°	319.4	325.4	355.4	392.8	436.3	454.3	482.8	500.8	563.8	671.7	668.7
72.5°	245.9	253.4	269.9	293.9	329.9	347.9	379.3	400.3	436.3	523.3	559.3
75°	179.9	184.4	199.4	206.9	211.4	206.9	238.4	262.4	310.4	343.4	352.4
77.5°	73.5	82.5	79.5	79.5	94.5	114.0	130.4	145.4	178.4	197.9	199.4
80°	30.0	33.0	39.0	43.5	52.5	67.5	78.0	84.0	99.0	111.0	120.0
82.5°	18.0	19.5	22.5	24.0	30.0	39.0	45.0	49.5	61.5	73.5	78.0
85°	9.0	9.0	10.5	12.0	15.0	18.0	21.0	24.0	31.5	39.0	43.5
87.5°	1.5	1.5	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	15.0
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°	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7	5649.7
2.5°	5652.7	5571.7	5477.2	5402.3	5315.3	5250.8	5159.4	5102.4	5048.4	5003.4	4970.4
5°	5658.7	5522.2	5325.8	5151.9	4971.9	4801.0	4625.6	4483.1	4355.7	4249.2	4240.2
7.5°	5693.1	5496.7	5189.3	4885.0	4534.1	4195.3	3856.4	3580.5	3370.6	3261.1	3238.7
10°	5751.6	5493.7	5049.9	4564.1	3965.9	3420.1	3018.2	2808.3	2686.9	2643.4	2628.4
12.5°	5813.1	5486.2	4871.5	4111.3	3280.6	2802.3	2581.9	2556.4	2578.9	2581.9	2580.4
15°	5888.1	5481.7	4646.6	3580.5	2779.8	2516.0	2530.9	2584.9	2637.4	2649.4	2649.4
17.5°	5979.5	5471.2	4340.7	3061.7	2466.5	2460.5	2539.9	2611.9	2661.4	2670.4	2670.4
20°	6075.5	5444.2	3964.4	2638.9	2339.0	2426.0	2511.5	2566.9	2601.4	2613.4	2614.9
22.5°	6141.5	5372.3	3531.0	2325.5	2259.6	2360.0	2421.5	2478.5	2478.5	2448.5	2439.5
25°	6154.9	5217.8	3061.7	2111.1	2165.1	2258.1	2321.0	2288.1	2226.6	2202.6	2201.1
27.5°	6105.5	4992.9	2598.4	1958.2	2051.1	2144.1	2133.6	2085.6	2058.6	2034.7	2043.7
30°	6045.5	4723.0	2196.6	1832.2	1919.2	2010.7	1974.7	1958.2	1938.7	1911.7	1917.7
32.5°	6005.0	4421.7	1887.7	1734.8	1830.7	1845.7	1871.2	1869.7	1851.7	1800.8	1797.8
35°	6017.0	4117.3	1680.8	1655.3	1757.3	1751.3	1799.3	1790.3	1665.8	1595.3	1590.8
37.5°	6113.0	3824.9	1559.4	1592.3	1640.3	1677.8	1719.8	1611.8	1568.3	1523.4	1526.4
40°	6295.9	3553.5	1493.4	1557.9	1569.8	1625.3	1527.9	1526.4	1506.9	1466.4	1464.9
42.5°	6502.8	3324.1	1448.4	1541.4	1524.9	1535.4	1431.9	1443.9	1442.4	1416.9	1409.4
45°	6628.7	3112.7	1412.4	1479.9	1484.4	1379.4	1347.9	1361.4	1368.9	1355.4	1353.9
47.5°	6498.3	2869.8	1374.9	1385.4	1424.4	1309.0	1270.0	1271.5	1285.0	1286.5	1280.5
50°	6132.5	2598.4	1329.9	1304.5	1279.0	1235.5	1199.5	1192.0	1205.5	1219.0	1223.5
52.5°	5660.2	2339.0	1255.0	1216.0	1156.0	1156.0	1139.5	1115.5	1133.5	1151.5	1157.5
55°	5313.8	2147.1	1148.5	1105.0	1039.1	1061.6	1058.6	1037.6	1061.6	1075.1	1079.6
57.5°	4604.6	1725.8	1010.6	997.1	941.6	968.6	974.6	947.6	935.6	938.6	943.1
60°	2733.4	1114.0	911.6	910.1	860.6	892.1	910.1	883.1	847.1	851.6	857.6
62.5°	1226.5	851.6	787.2	781.2	779.7	820.2	839.7	814.2	763.2	767.7	773.7
65°	772.2	736.2	683.7	683.7	707.7	742.2	757.2	736.2	677.7	670.2	676.2
67.5°	716.7	685.2	631.2	620.7	632.7	661.2	662.7	622.2	587.8	581.8	581.8
70°	643.2	619.2	566.8	545.8	541.3	539.8	535.3	524.8	502.3	496.3	499.3
72.5°	532.3	515.8	482.8	460.3	448.3	446.8	428.8	419.8	400.3	397.3	395.8
75°	352.4	356.9	356.9	353.9	343.4	338.9	319.4	310.4	287.9	278.9	277.4
77.5°	208.4	212.9	218.9	220.4	218.9	218.9	200.9	190.4	167.9	155.9	152.9
80°	127.4	130.4	133.4	137.9	131.9	127.4	111.0	100.5	90.0	82.5	81.0
82.5°	82.5	85.5	87.0	90.0	87.0	81.0	67.5	61.5	54.0	48.0	46.5
85°	46.5	48.0	51.0	51.0	46.5	42.0	34.5	30.0	25.5	22.5	22.5
87.5°	16.5	16.5	16.5	18.0	15.0	13.5	9.0	6.0	4.5	4.5	4.5
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)