

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: P642713

Luminaire Tested: GWS-SA6D-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642713
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-SA6D-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34402.9 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

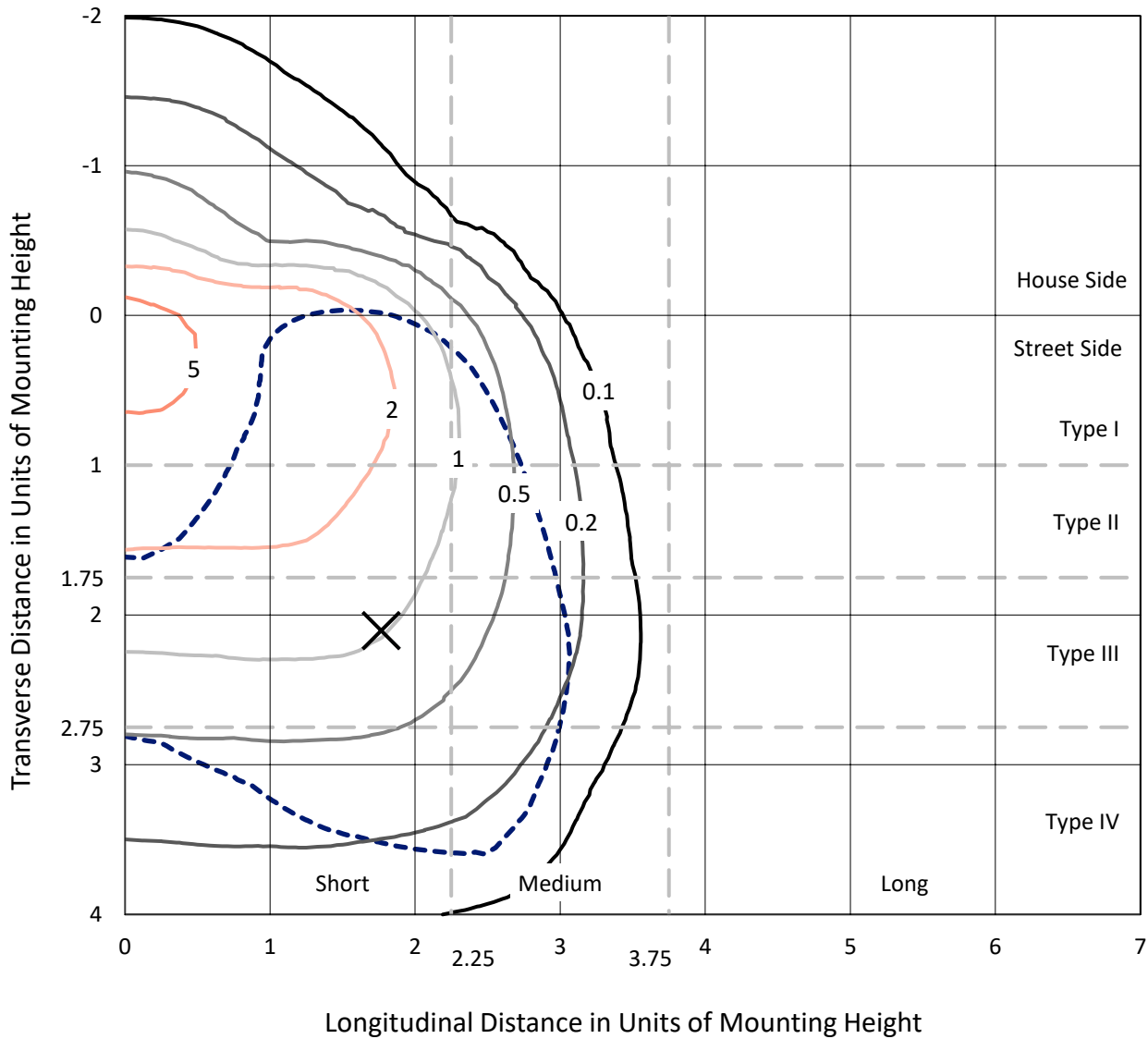
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642713
 CATALOG NUMBER: GWS-SA6D-740-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

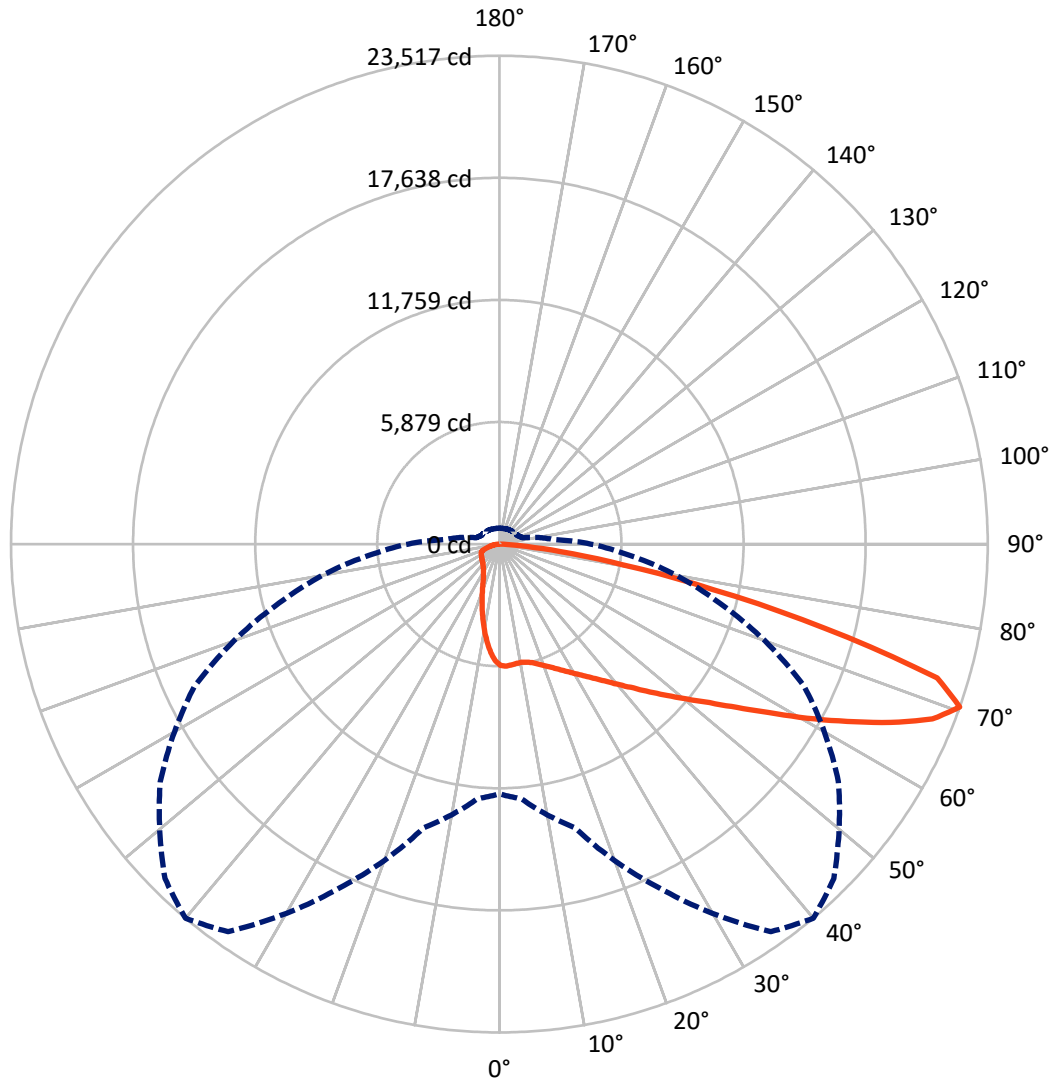
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P642713
CATALOG NUMBER: GWS-SA6D-740-U-SL4-W

Luminous Intensity Polar Plot



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



REPORT NUMBER: P642713

CATALOG NUMBER: GWS-SA6D-740-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5298.9	0.0	5298.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	29104.0	0.0	29104.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	34402.9	0.0	34402.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.1	1.5
10°-20°	1345.2	3.9
20°-30°	2112.3	6.1
30°-40°	3175.8	9.2
40°-50°	4902.0	14.2
50°-60°	7279.9	21.2
60°-70°	9176.2	26.7
70°-80°	5306.5	15.4
80°-90°	588.9	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°	34402.9	100.0
0°-180°	34402.9	100.0

Coefficient of Utilization



REPORT NUMBER: P642713

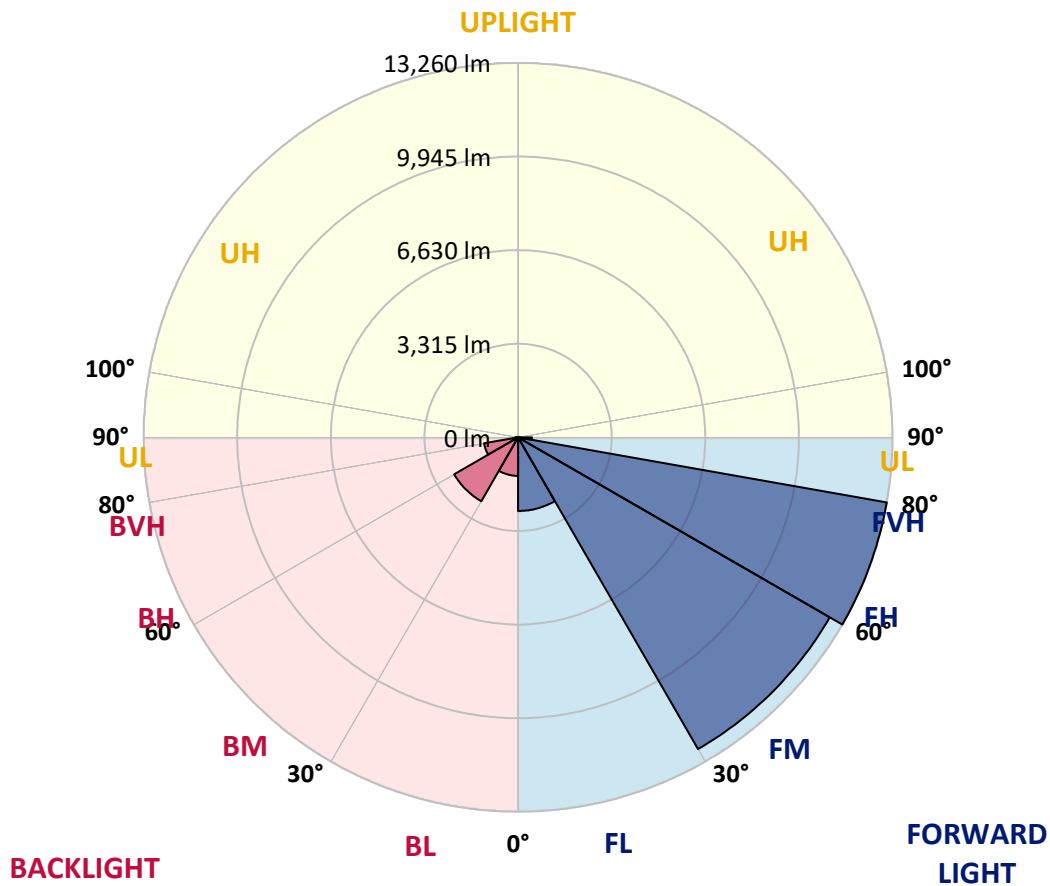
CATALOG NUMBER: GWS-SA6D-740-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2608.0	7.6			
FM (30°-60°)	12745.8	37.0			
FH (60°-80°)	13259.7	38.5			G5
FVH (80°-90°)	490.5	1.4			G3/500
BL (0°-30°)	1365.6	4.0	B3/2500		
BM (30°-60°)	2611.9	7.6	B3/5000		
BH (60°-80°)	1223.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	98.4	0.3			G1/100
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





REPORT NUMBER: P642713
 CATALOG NUMBER: GWS-SA6D-740-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0
2.5°	5878.0	5888.2	5895.9	5906.2	5901.1	5885.7	5898.5	5898.5	5870.3	5839.4	5811.2
5°	5885.7	5898.5	5895.9	5893.4	5872.8	5847.1	5847.1	5831.7	5782.9	5734.2	5687.9
7.5°	5870.3	5867.7	5865.1	5857.4	5834.3	5806.1	5800.9	5770.1	5705.9	5639.1	5572.4
10°	5800.9	5798.4	5806.1	5824.0	5818.9	5793.2	5793.2	5765.0	5690.5	5608.3	5521.0
12.5°	5744.4	5744.4	5775.2	5824.0	5842.0	5831.7	5834.3	5813.8	5729.0	5631.4	5528.7
15°	5752.1	5754.7	5821.5	5901.1	5934.5	5926.7	5929.3	5906.2	5811.2	5713.6	5574.9
17.5°	5803.5	5816.3	5931.9	6042.3	6086.0	6075.7	6057.7	6019.2	5911.3	5800.9	5631.4
20°	5911.3	5931.9	6080.8	6219.5	6270.8	6247.7	6216.9	6139.9	6021.8	5901.1	5693.1
22.5°	6124.5	6137.3	6301.7	6437.8	6478.8	6450.6	6389.0	6278.6	6142.5	6016.6	5767.5
25°	6424.9	6440.3	6597.0	6722.8	6712.5	6679.1	6594.4	6458.3	6296.5	6163.0	5875.4
27.5°	6781.9	6807.5	6961.6	7061.8	6995.0	6946.2	6851.2	6686.9	6504.5	6383.8	6039.7
30°	7172.2	7182.5	7313.4	7413.6	7310.9	7244.1	7128.5	6951.3	6787.0	6697.1	6286.3
32.5°	7549.7	7559.9	7672.9	7729.4	7621.6	7572.8	7472.6	7285.2	7169.6	7120.8	6653.5
35°	7947.7	7945.1	8037.6	8086.4	7975.9	7955.4	7852.7	7708.9	7688.3	7752.5	7190.2
37.5°	8345.7	8322.6	8371.4	8435.6	8374.0	8394.5	8327.7	8279.0	8358.6	8525.5	7904.0
40°	8664.1	8664.1	8715.5	8795.1	8815.7	8905.5	8867.0	8931.2	9188.0	9586.0	8787.4
42.5°	8946.6	8949.2	9057.0	9180.3	9329.2	9467.9	9498.7	9665.6	10197.2	10821.2	9896.7
45°	9241.9	9244.5	9390.9	9570.6	9886.5	10151.0	10212.6	10587.5	11347.6	12107.7	11101.1
47.5°	9583.5	9555.2	9758.1	10058.5	10507.9	10888.0	11047.2	11578.7	12539.1	13473.9	12236.1
50°	9968.6	9909.6	10135.6	10654.3	11208.9	11730.2	11997.3	12605.9	13818.0	14734.7	13304.4
52.5°	10402.6	10369.2	10605.5	11237.2	12084.6	12685.5	13047.6	13846.2	15060.8	15990.4	14151.8
55°	10941.9	10862.3	11203.8	12007.6	13111.8	13877.0	14305.9	15073.7	16419.2	17130.6	14798.9
57.5°	11532.5	11445.2	11902.3	12970.5	14447.1	15286.8	15823.5	16455.2	17698.1	18003.7	15178.9
60°	12169.3	12141.1	12682.9	14100.4	16039.2	17015.0	17402.8	17975.4	18810.0	18509.5	15083.9
62.5°	12752.3	12742.0	13530.3	15325.3	17726.3	18799.7	19107.9	19259.4	19611.2	18476.1	14329.0
65°	13366.0	13453.3	14519.0	16745.4	19660.0	20712.8	20841.2	20456.0	19880.8	17600.5	12783.1
67.5°	13443.0	13612.5	15140.4	18075.6	21493.4	22487.2	22384.5	20910.5	19084.7	15163.5	10020.0
70°	12023.0	12318.3	14149.2	18278.4	22785.1	23517.0	22774.8	19932.2	16195.8	10985.5	6301.7
72.5°	10045.7	10299.9	11917.7	15587.2	21118.5	22050.7	21046.6	16871.2	11445.2	6301.7	3209.9
75°	7819.3	8114.6	9606.6	12390.2	15810.7	16183.0	15679.7	11766.2	6291.4	2598.7	1458.6
77.5°	4771.2	4984.3	6145.0	8394.5	11062.6	10505.3	8903.0	6597.0	2760.5	1245.4	901.3
80°	2110.8	2241.8	3027.6	4509.3	6391.5	6042.3	4763.5	2817.0	1509.9	790.9	629.1
82.5°	1132.5	1217.2	1492.0	1784.7	2806.7	2935.1	2380.5	1622.9	811.5	452.0	359.5
85°	498.2	547.0	677.9	647.1	921.9	906.5	914.2	1114.5	387.8	208.0	233.7
87.5°	0.0	0.0	0.0	0.0	2.6	2.6	28.2	148.9	38.5	61.6	53.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P642713
 CATALOG NUMBER: GWS-SA6D-740-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0	5842.0
2.5°	5780.4	5734.2	5721.3	5705.9	5677.7	5628.9	5592.9	5551.8	5533.9	5513.3	5515.9
5°	5636.6	5580.1	5526.2	5456.8	5369.5	5271.9	5205.2	5128.1	5087.0	5048.5	5058.8
7.5°	5513.3	5426.0	5315.6	5169.2	5012.6	4838.0	4696.7	4586.3	4511.8	4460.5	4486.1
10°	5436.3	5333.6	5141.0	4902.1	4637.7	4370.6	4167.7	3977.7	3859.6	3767.1	3762.0
12.5°	5420.9	5287.3	5007.4	4660.8	4278.1	3921.2	3623.3	3366.5	3209.9	3094.3	3138.0
15°	5436.3	5266.8	4891.9	4437.4	3954.6	3471.8	3102.0	2806.7	2619.3	2514.0	2506.3
17.5°	5454.3	5246.3	4760.9	4196.0	3615.6	3063.5	2634.7	2321.4	2128.8	2023.5	2026.1
20°	5469.7	5215.4	4606.8	3931.5	3271.5	2683.5	2239.2	1941.3	1769.3	1692.3	1705.1
22.5°	5495.3	5184.6	4442.5	3649.0	2919.7	2316.3	1925.9	1684.6	1581.8	1530.5	1533.0
25°	5544.1	5166.6	4273.0	3340.9	2573.1	2023.5	1710.2	1548.5	1484.3	1453.4	1450.9
27.5°	5644.3	5182.1	4095.8	3043.0	2259.8	1800.1	1571.6	1466.3	1422.6	1402.1	1399.5
30°	5811.2	5243.7	3941.7	2740.0	1990.1	1625.5	1476.6	1412.4	1386.7	1368.7	1366.1
32.5°	6065.4	5359.2	3774.8	2457.5	1771.9	1497.1	1402.1	1368.7	1350.7	1340.5	1340.5
35°	6450.6	5569.8	3610.5	2211.0	1602.4	1396.9	1343.0	1330.2	1314.8	1309.6	1314.8
37.5°	7005.3	5906.2	3461.5	1995.3	1481.7	1319.9	1278.8	1284.0	1271.1	1278.8	1286.5
40°	7708.9	6355.6	3335.7	1818.1	1391.8	1263.4	1222.3	1240.3	1232.6	1240.3	1253.1
42.5°	8599.9	6912.8	3240.7	1679.4	1327.6	1217.2	1178.7	1196.6	1191.5	1201.8	1214.6
45°	9593.7	7647.3	3197.1	1581.8	1281.4	1183.8	1142.7	1155.6	1150.4	1158.1	1171.0
47.5°	10546.4	8314.9	3235.6	1525.3	1242.9	1155.6	1111.9	1117.0	1114.5	1111.9	1119.6
50°	11368.2	8846.5	3346.0	1507.4	1217.2	1127.3	1086.2	1088.8	1081.1	1065.7	1070.8
52.5°	12038.4	9272.7	3412.8	1507.4	1204.4	1096.5	1058.0	1060.5	1045.1	1024.6	1027.2
55°	12480.1	9444.8	3358.8	1504.8	1199.2	1070.8	1029.7	1032.3	1016.9	991.2	993.8
57.5°	12605.9	9277.9	3132.9	1476.6	1194.1	1050.3	1001.5	1006.6	996.4	968.1	968.1
60°	12254.1	8666.7	2719.4	1412.4	1181.2	1037.4	980.9	988.6	983.5	955.3	955.3
62.5°	11332.2	7580.5	2226.4	1314.8	1145.3	1022.0	963.0	978.4	991.2	975.8	973.2
65°	9606.6	6073.1	1810.4	1206.9	1099.1	996.4	937.3	975.8	1004.1	1024.6	1024.6
67.5°	7208.1	4347.5	1476.6	1093.9	1029.7	945.0	903.9	939.9	960.4	973.2	980.9
70°	4393.7	2557.6	1163.3	963.0	929.6	868.0	837.1	801.2	772.9	767.8	770.4
72.5°	2149.3	1463.7	945.0	819.2	793.5	737.0	667.7	652.3	639.4	631.7	629.1
75°	1183.8	1019.5	780.6	680.5	634.3	564.9	549.5	523.9	518.7	508.4	511.0
77.5°	837.1	803.8	644.5	552.1	482.8	446.8	454.5	436.5	436.5	428.8	426.3
80°	629.1	631.7	495.6	403.2	356.9	344.1	351.8	351.8	346.7	344.1	341.5
82.5°	398.0	449.4	333.8	259.4	254.2	256.8	254.2	251.7	256.8	249.1	246.5
85°	274.8	323.6	202.9	154.1	154.1	151.5	156.6	154.1	159.2	151.5	151.5
87.5°	61.6	143.8	74.5	46.2	48.8	46.2	48.8	51.4	56.5	59.1	59.1
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)