

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: P643813

Luminaire Tested: GWS-SA6F-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643813
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-SA6F-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48224 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

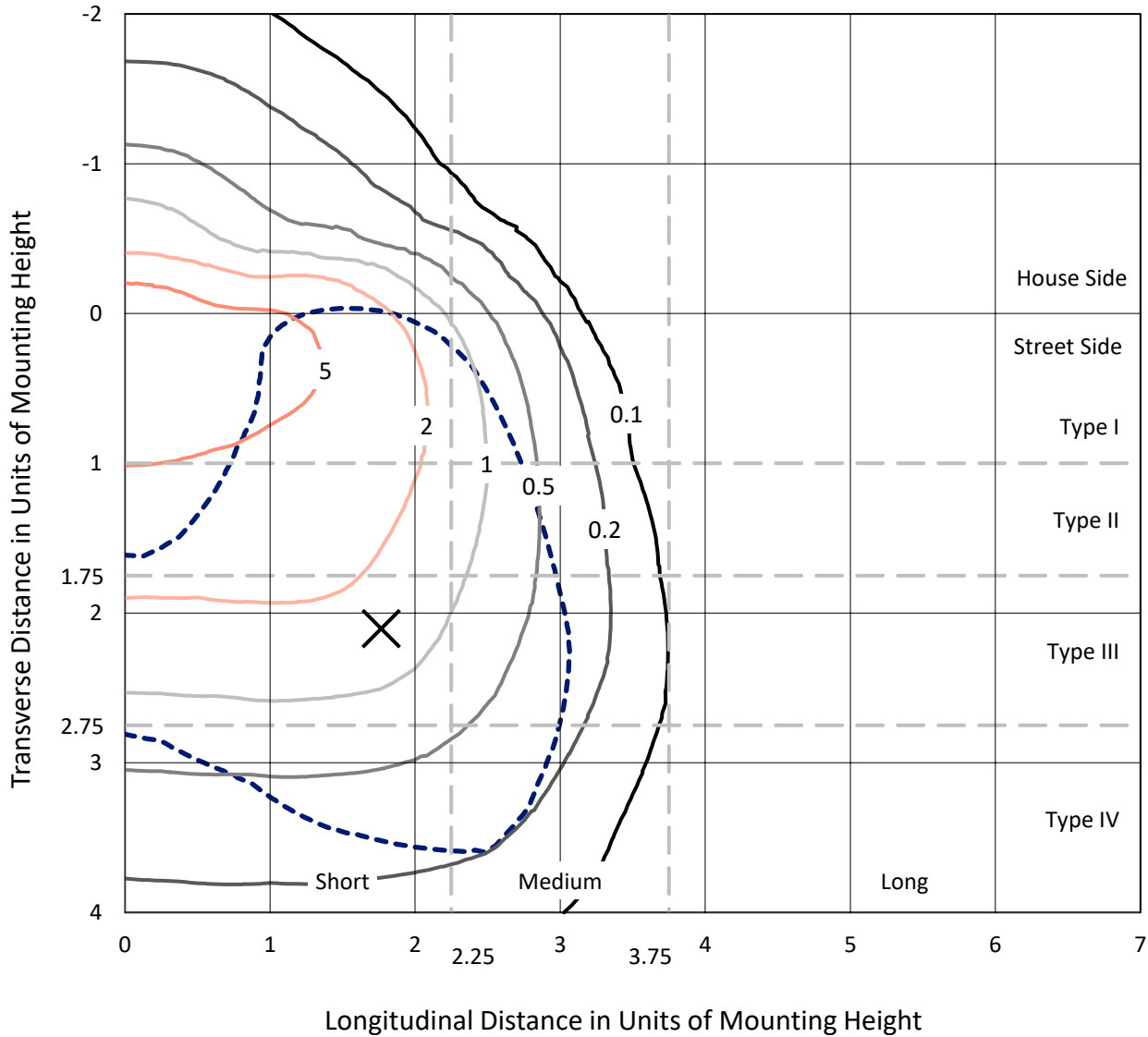
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643813
 CATALOG NUMBER: GWS-SA6F-760-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

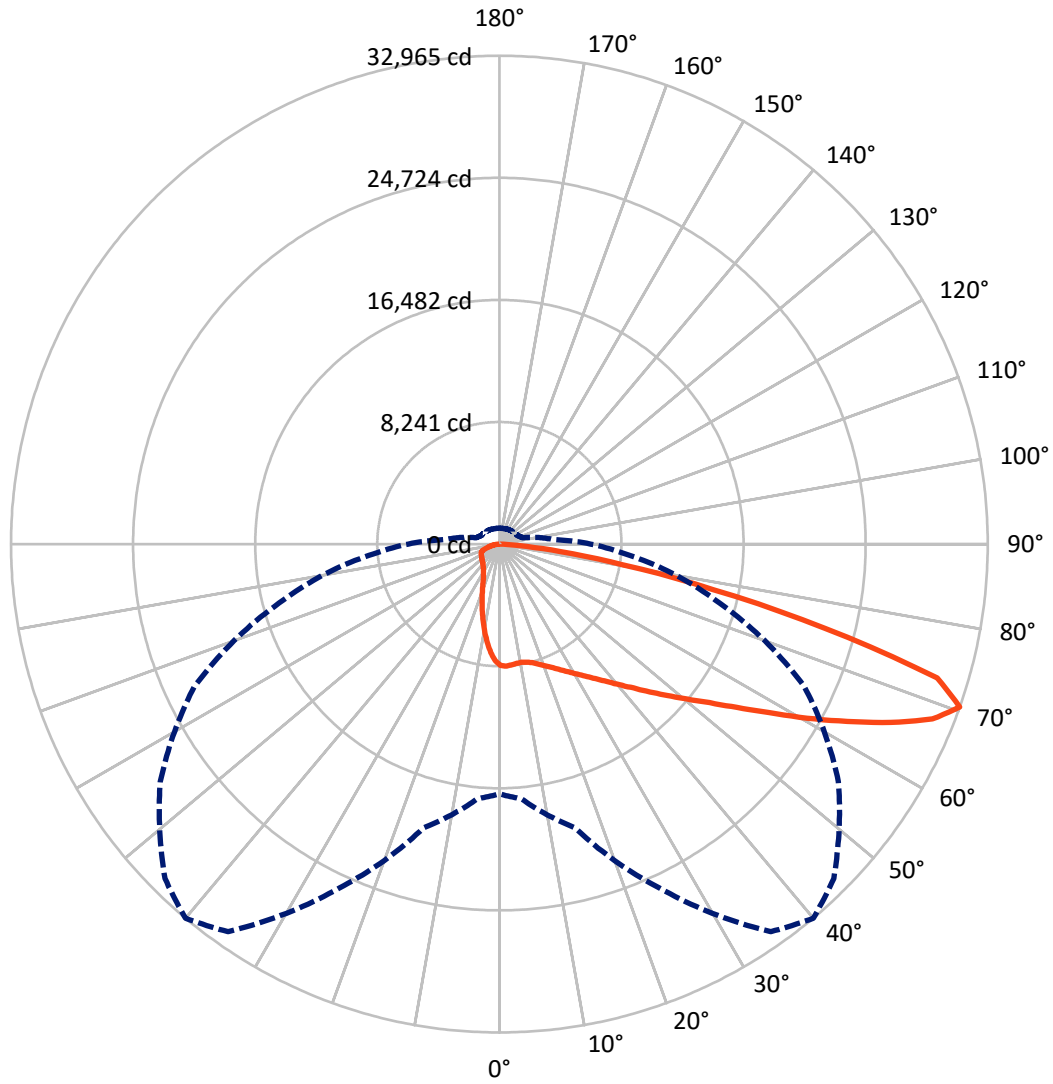
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P643813
CATALOG NUMBER: GWS-SA6F-760-U-SL4-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643813

CATALOG NUMBER: GWS-SA6F-760-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7427.7	0.0	7427.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	40796.3	0.0	40796.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	48224.0	0.0	48224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.4	1.5
10°-20°	1885.7	3.9
20°-30°	2960.8	6.1
30°-40°	4451.7	9.2
40°-50°	6871.3	14.2
50°-60°	10204.5	21.2
60°-70°	12862.6	26.7
70°-80°	7438.4	15.4
80°-90°	825.5	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°	48224.0	100.0
0°-180°	48224.0	100.0

Coefficient of Utilization



REPORT NUMBER: P643813

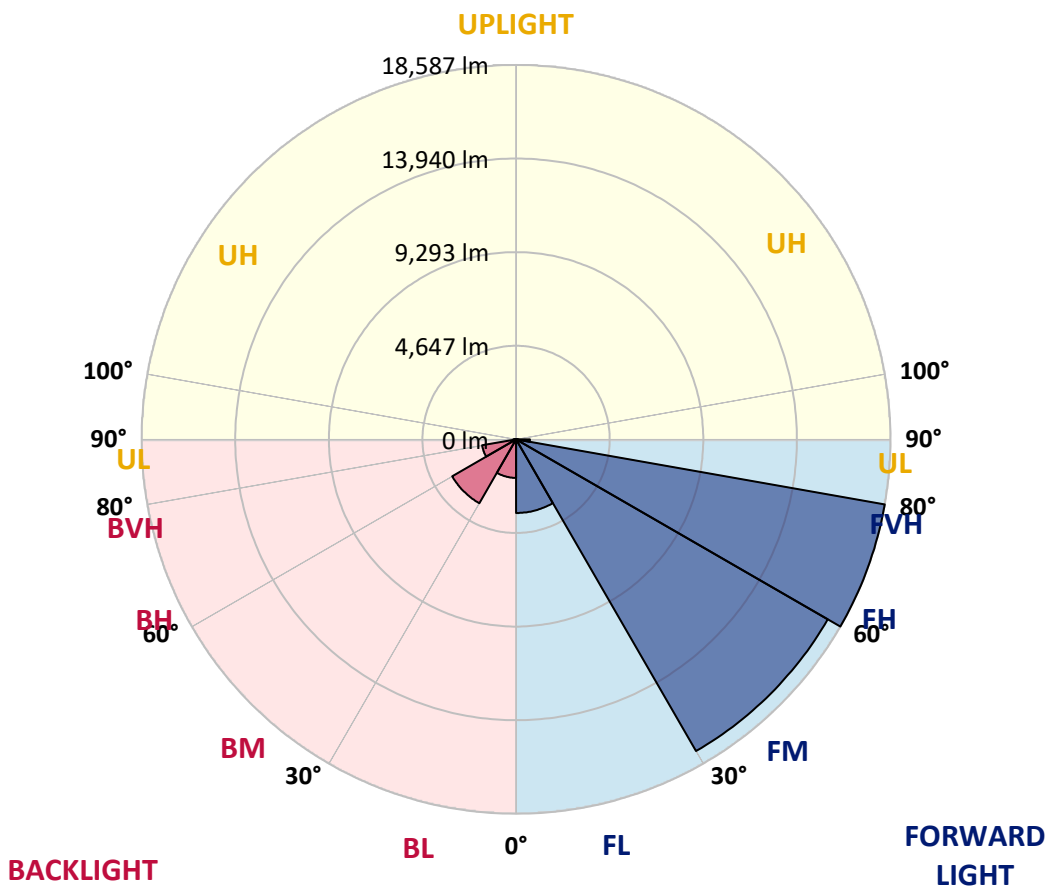
CATALOG NUMBER: GWS-SA6F-760-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3655.7	7.6			
FM (30°-60°)	17866.4	37.0			
FH (60°-80°)	18586.7	38.5			G5
FVH (80°-90°)	687.5	1.4			G4/750
BL (0°-30°)	1914.2	4.0	B3/2500		
BM (30°-60°)	3661.2	7.6	B3/5000		
BH (60°-80°)	1714.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	138.0	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





REPORT NUMBER: P643813

CATALOG NUMBER: GWS-SA6F-760-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0
2.5°	8239.4	8253.8	8264.6	8279.0	8271.8	8250.2	8268.2	8268.2	8228.6	8185.4	8145.8
5°	8250.2	8268.2	8264.6	8261.0	8232.2	8196.2	8196.2	8174.6	8106.2	8037.8	7973.0
7.5°	8228.6	8225.0	8221.4	8210.6	8178.2	8138.6	8131.4	8088.2	7998.2	7904.6	7811.0
10°	8131.4	8127.8	8138.6	8163.8	8156.6	8120.6	8120.6	8081.0	7976.6	7861.4	7739.0
12.5°	8052.2	8052.2	8095.4	8163.8	8189.0	8174.6	8178.2	8149.4	8030.6	7893.8	7749.8
15°	8063.0	8066.6	8160.2	8271.8	8318.6	8307.8	8311.4	8279.0	8145.8	8009.0	7814.6
17.5°	8135.0	8153.0	8315.0	8469.8	8530.9	8516.5	8491.4	8437.4	8286.2	8131.4	7893.8
20°	8286.2	8315.0	8523.7	8718.1	8790.1	8757.7	8714.5	8606.5	8441.0	8271.8	7980.2
22.5°	8584.9	8602.9	8833.3	9024.1	9081.7	9042.1	8955.7	8800.9	8610.1	8433.8	8084.6
25°	9006.1	9027.7	9247.3	9423.6	9409.2	9362.4	9243.7	9052.9	8826.1	8638.9	8235.8
27.5°	9506.4	9542.4	9758.4	9898.8	9805.2	9736.8	9603.6	9373.2	9117.7	8948.5	8466.2
30°	10053.6	10068.0	10251.5	10391.9	10247.9	10154.3	9992.4	9744.0	9513.6	9387.6	8811.7
32.5°	10582.7	10597.1	10755.5	10834.7	10683.5	10615.1	10474.7	10211.9	10050.0	9981.6	9326.4
35°	11140.6	11137.0	11266.6	11335.0	11180.2	11151.4	11007.4	10805.9	10777.1	10867.1	10078.8
37.5°	11698.6	11666.2	11734.6	11824.5	11738.1	11766.9	11673.4	11605.0	11716.6	11950.5	11079.4
40°	12144.9	12144.9	12216.9	12328.5	12357.3	12483.3	12429.3	12519.3	12879.2	13437.1	12317.7
42.5°	12540.9	12544.5	12695.6	12868.4	13077.2	13271.6	13314.8	13548.7	14293.8	15168.5	13872.7
45°	12954.8	12958.4	13163.6	13415.5	13858.3	14229.0	14315.4	14841.0	15906.4	16971.9	15560.9
47.5°	13433.5	13393.9	13678.3	14099.5	14729.4	15262.1	15485.3	16230.4	17576.6	18886.9	17151.9
50°	13973.5	13890.7	14207.4	14934.6	15712.1	16442.8	16817.1	17670.2	19369.2	20654.2	18649.3
52.5°	14581.8	14535.0	14866.2	15751.7	16939.5	17781.8	18289.3	19408.8	21111.4	22414.4	19837.1
55°	15337.7	15226.1	15704.9	16831.5	18379.3	19452.0	20053.1	21129.4	23015.6	24012.6	20744.2
57.5°	16165.6	16043.2	16683.9	18181.4	20251.1	21428.2	22180.5	23066.0	24808.1	25236.5	21277.0
60°	17058.3	17018.7	17778.2	19765.2	22482.8	23850.7	24394.2	25196.9	26366.7	25945.6	21143.8
62.5°	17875.4	17861.0	18966.1	21482.1	24847.7	26352.3	26784.3	26996.7	27489.8	25898.8	20085.5
65°	18735.7	18858.1	20351.9	23472.7	27558.2	29034.0	29214.0	28674.1	27867.8	24671.4	17918.6
67.5°	18843.7	19081.2	21223.0	25337.3	30128.3	31521.3	31377.3	29311.2	26751.9	21255.4	14045.5
70°	16853.1	17267.1	19833.5	25621.6	31938.9	32964.7	31924.5	27939.7	22702.4	15398.9	8833.3
72.5°	14081.5	14437.8	16705.5	21849.3	29602.7	30909.4	29502.0	23649.1	16043.2	8833.3	4499.4
75°	10960.6	11374.6	13465.9	17367.9	22162.5	22684.4	21978.9	16493.2	8818.9	3642.7	2044.5
77.5°	6688.0	6986.7	8613.7	11766.9	15506.9	14725.8	12479.7	9247.3	3869.5	1745.8	1263.4
80°	2958.8	3142.4	4243.9	6320.8	8959.3	8469.8	6677.2	3948.7	2116.5	1108.7	881.9
82.5°	1587.4	1706.2	2091.3	2501.7	3934.3	4114.3	3336.8	2274.9	1137.5	633.5	503.9
85°	698.3	766.7	950.3	907.1	1292.2	1270.6	1281.4	1562.2	543.5	291.6	327.6
87.5°	0.0	0.0	0.0	0.0	3.6	3.6	39.6	208.8	54.0	86.4	75.6
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°	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0	8189.0
2.5°	8102.6	8037.8	8019.8	7998.2	7958.6	7890.2	7839.8	7782.2	7757.0	7728.2	7731.8
5°	7901.0	7821.8	7746.2	7649.1	7526.7	7389.9	7296.3	7188.3	7130.7	7076.7	7091.1
7.5°	7728.2	7605.9	7451.1	7245.9	7026.3	6781.6	6583.6	6428.8	6324.4	6252.4	6288.4
10°	7620.3	7476.3	7206.3	6871.6	6500.8	6126.4	5842.1	5575.7	5410.1	5280.5	5273.3
12.5°	7598.7	7411.5	7019.1	6533.2	5996.9	5496.5	5079.0	4719.0	4499.4	4337.5	4398.7
15°	7620.3	7382.7	6857.2	6220.0	5543.3	4866.6	4348.3	3934.3	3671.5	3524.0	3513.2
17.5°	7645.5	7353.9	6673.6	5881.7	5068.2	4294.3	3693.1	3254.0	2984.0	2836.4	2840.0
20°	7667.1	7310.7	6457.6	5510.9	4585.8	3761.5	3138.8	2721.3	2480.1	2372.1	2390.1
22.5°	7703.0	7267.5	6227.2	5115.0	4092.7	3246.8	2699.7	2361.3	2217.3	2145.3	2148.9
25°	7771.4	7242.3	5989.7	4683.0	3606.8	2836.4	2397.3	2170.5	2080.5	2037.3	2033.7
27.5°	7911.8	7263.9	5741.3	4265.5	3167.6	2523.3	2202.9	2055.3	1994.2	1965.4	1961.8
30°	8145.8	7350.3	5525.3	3840.7	2789.7	2278.5	2069.7	1979.8	1943.8	1918.6	1915.0
32.5°	8502.1	7512.3	5291.3	3444.8	2483.7	2098.5	1965.4	1918.6	1893.4	1879.0	1879.0
35°	9042.1	7807.4	5061.0	3099.2	2246.1	1958.2	1882.6	1864.6	1843.0	1835.8	1843.0
37.5°	9819.6	8279.0	4852.2	2796.9	2076.9	1850.2	1792.6	1799.8	1781.8	1792.6	1803.4
40°	10805.9	8908.9	4675.8	2548.5	1951.0	1771.0	1713.4	1738.6	1727.8	1738.6	1756.6
42.5°	12054.9	9690.0	4542.6	2354.1	1861.0	1706.2	1652.2	1677.4	1670.2	1684.6	1702.6
45°	13447.9	10719.5	4481.4	2217.3	1796.2	1659.4	1601.8	1619.8	1612.6	1623.4	1641.4
47.5°	14783.4	11655.4	4535.4	2138.1	1742.2	1619.8	1558.6	1565.8	1562.2	1558.6	1569.4
50°	15935.2	12400.5	4690.2	2112.9	1706.2	1580.2	1522.6	1526.2	1515.4	1493.8	1501.0
52.5°	16874.7	12998.0	4783.8	2112.9	1688.2	1537.0	1483.0	1486.6	1465.0	1436.2	1439.8
55°	17493.8	13239.2	4708.2	2109.3	1681.0	1501.0	1443.4	1447.0	1425.4	1389.4	1393.0
57.5°	17670.2	13005.2	4391.5	2069.7	1673.8	1472.2	1403.8	1411.0	1396.6	1357.0	1357.0
60°	17177.1	12148.5	3811.9	1979.8	1655.8	1454.2	1375.0	1385.8	1378.6	1339.0	1339.0
62.5°	15884.8	10625.9	3120.8	1843.0	1605.4	1432.6	1349.8	1371.4	1389.4	1367.8	1364.2
65°	13465.9	8512.9	2537.7	1691.8	1540.6	1396.6	1313.8	1367.8	1407.4	1436.2	1436.2
67.5°	10104.0	6094.0	2069.7	1533.4	1443.4	1324.6	1267.0	1317.4	1346.2	1364.2	1375.0
70°	6158.8	3585.2	1630.6	1349.8	1303.0	1216.6	1173.5	1123.1	1083.5	1076.3	1079.9
72.5°	3012.8	2051.7	1324.6	1148.3	1112.3	1033.1	935.9	914.3	896.3	885.5	881.9
75°	1659.4	1429.0	1094.3	953.9	889.1	791.9	770.3	734.3	727.1	712.7	716.3
77.5°	1173.5	1126.7	903.5	773.9	676.7	626.3	637.1	611.9	611.9	601.1	597.5
80°	881.9	885.5	694.7	565.1	500.3	482.3	493.1	493.1	485.9	482.3	478.7
82.5°	557.9	629.9	467.9	363.6	356.4	360.0	356.4	352.8	360.0	349.2	345.6
85°	385.2	453.5	284.4	216.0	216.0	212.4	219.6	216.0	223.2	212.4	212.4
87.5°	86.4	201.6	104.4	64.8	68.4	64.8	68.4	72.0	79.2	82.8	82.8
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)