

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: P641327

Luminaire Tested: GWS-SA5F-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37121.2 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

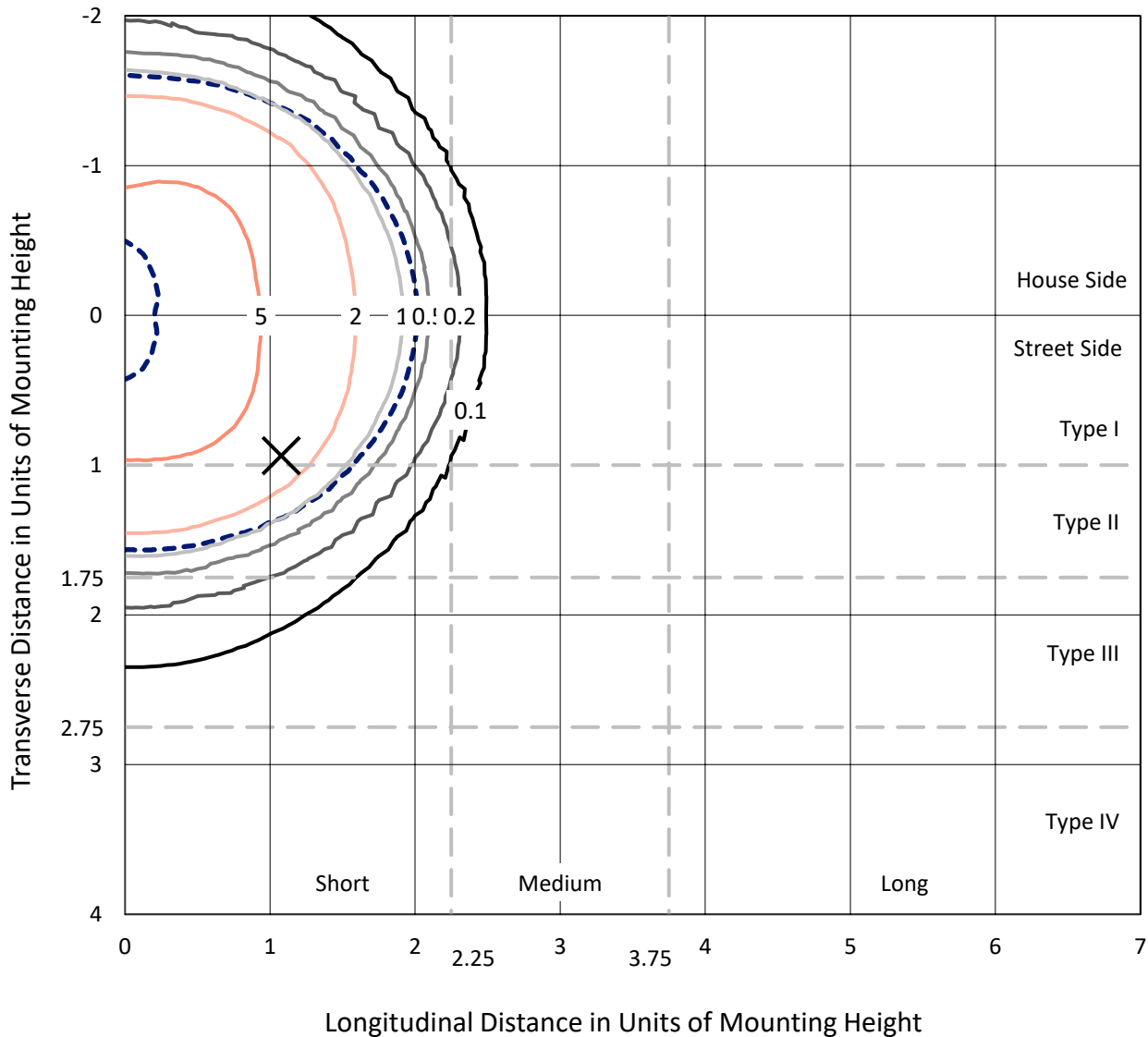
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

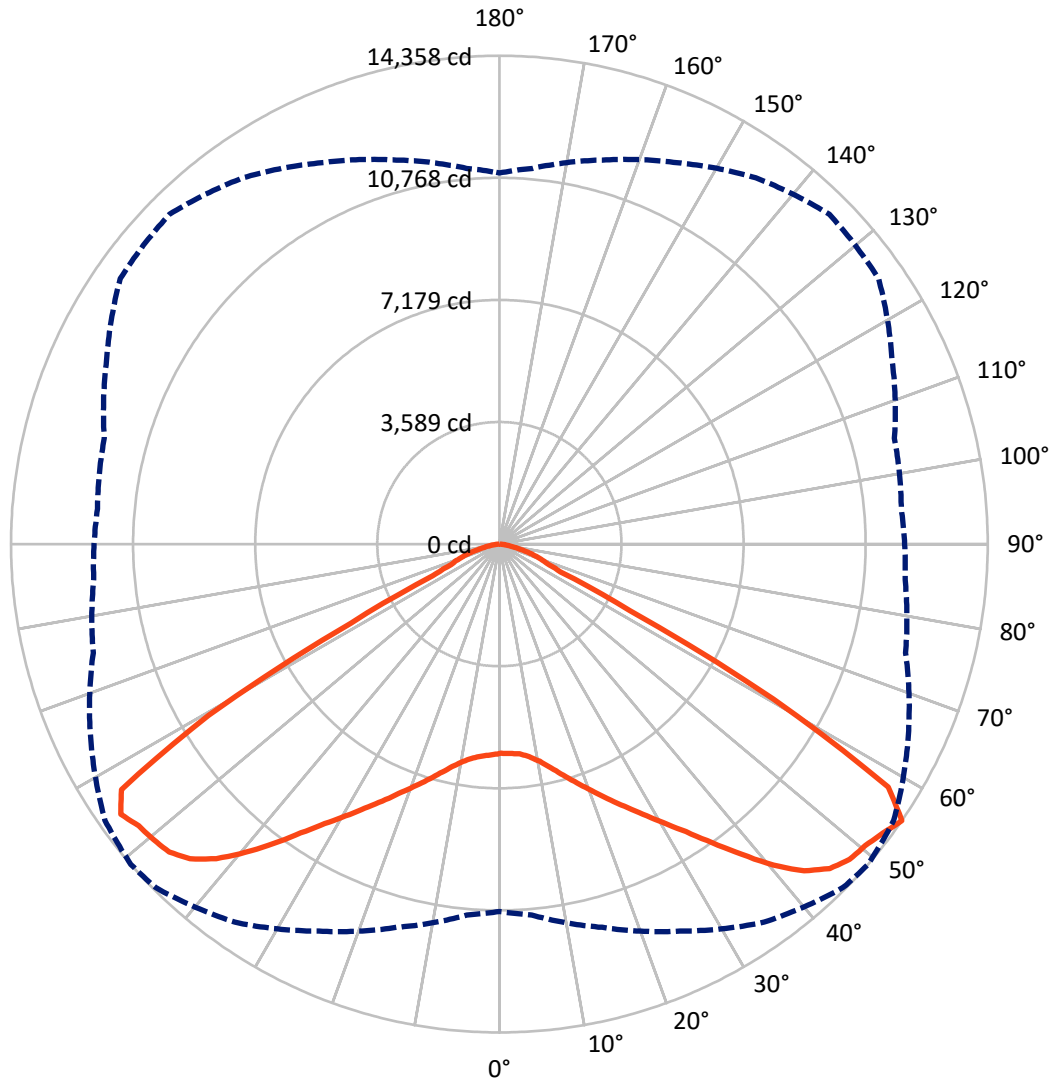
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18378.5	0.0	18378.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	18742.7	0.0	18742.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	37121.2	0.0	37121.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.9	1.6
10°-20°	1978.6	5.3
20°-30°	3768.7	10.2
30°-40°	6388.8	17.2
40°-50°	9614.7	25.9
50°-60°	10524.2	28.4
60°-70°	3327.8	9.0
70°-80°	798.7	2.2
80°-90°	119.9	0.3
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°	37121.2	100.0
0°-180°	37121.2	100.0

Coefficient of Utilization



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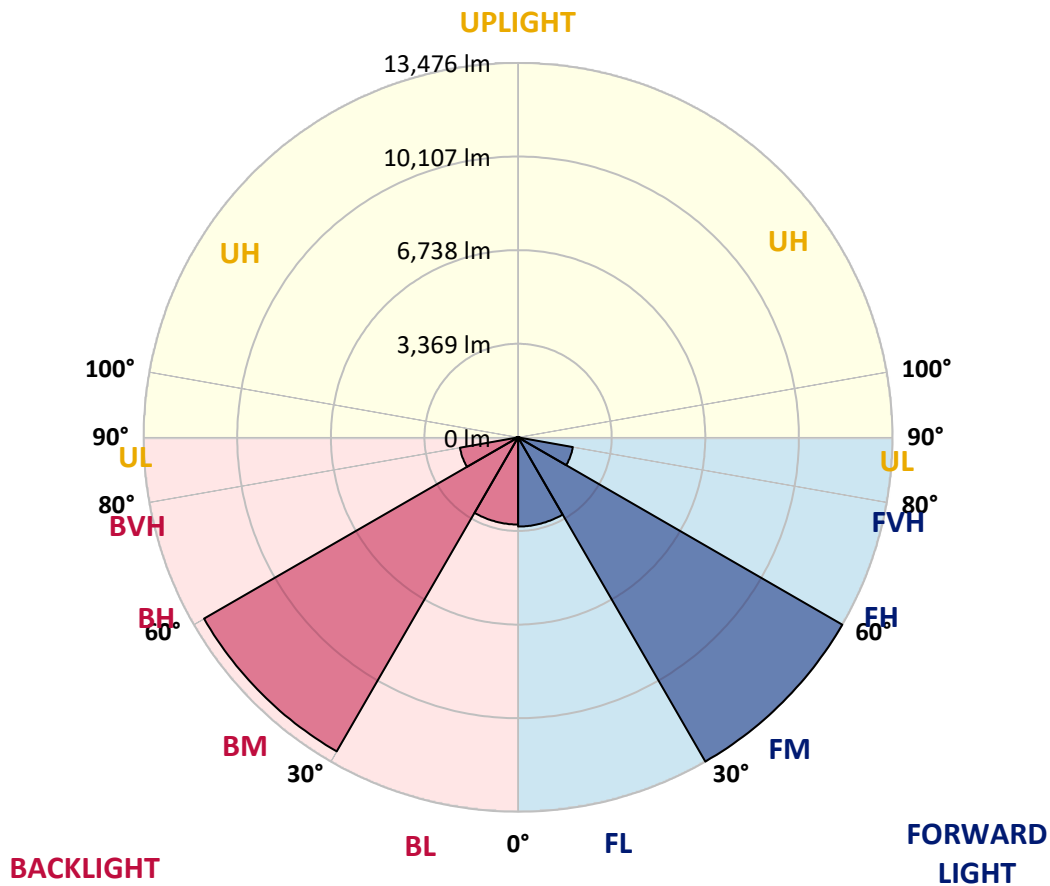
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3209.5	8.6			
FM (30°-60°)	13476.0	36.3			
FH (60°-80°)	2001.7	5.4			G2/5000
FVH (80°-90°)	55.5	0.1			G1/100
BL (0°-30°)	3137.8	8.5	B4/5000		
BM (30°-60°)	13051.6	35.2	B5		
BH (60°-80°)	2124.8	5.7	B3/2500		G2/5000
BVH (80°-90°)	64.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4
2.5°	6058.8	6064.8	6076.9	6098.0	6119.2	6149.4	6161.4	6176.5	6173.5	6191.6	6191.6
5°	6028.6	6037.7	6055.8	6086.0	6122.2	6179.5	6194.6	6230.9	6267.1	6312.4	6327.5
7.5°	6064.8	6076.9	6098.0	6146.3	6200.7	6276.1	6306.3	6366.7	6436.1	6517.6	6550.9
10°	6134.3	6149.4	6185.6	6264.1	6351.6	6466.3	6493.5	6569.0	6680.7	6792.4	6858.8
12.5°	6212.7	6236.9	6303.3	6427.1	6556.9	6707.8	6750.1	6843.7	6964.4	7109.3	7199.9
15°	6303.3	6324.4	6427.1	6602.2	6804.4	7003.7	7052.0	7142.5	7278.4	7420.3	7547.1
17.5°	6493.5	6529.7	6650.5	6852.7	7088.2	7323.7	7378.0	7480.7	7589.3	7701.0	7821.8
20°	6753.1	6783.3	6937.3	7187.8	7465.6	7679.9	7734.2	7824.8	7876.1	7933.5	8036.1
22.5°	7012.7	7055.0	7230.1	7525.9	7852.0	8084.4	8126.7	8211.2	8175.0	8156.9	8223.3
25°	7335.8	7393.1	7565.2	7888.2	8220.3	8507.1	8540.3	8612.7	8552.3	8458.8	8455.7
27.5°	7737.3	7788.6	7966.7	8298.8	8627.8	8926.7	8990.1	9086.7	8953.8	8839.1	8757.6
30°	8214.2	8247.4	8443.7	8796.9	9135.0	9418.7	9500.3	9596.9	9497.2	9307.0	9225.5
32.5°	8769.7	8815.0	9041.4	9412.7	9714.6	9998.4	10079.9	10200.6	10091.9	9877.6	9775.0
35°	9436.9	9482.1	9720.6	10125.1	10433.1	10725.9	10783.3	10882.9	10747.0	10499.5	10418.0
37.5°	10161.4	10218.7	10520.6	10904.0	11227.0	11568.1	11571.2	11601.4	11408.1	11100.2	11009.7
40°	10976.5	11051.9	11353.8	11752.3	12141.7	12419.5	12416.4	12331.9	12005.9	11528.9	11390.0
42.5°	11782.5	11842.9	12147.8	12558.3	12947.8	13210.4	13131.9	12926.6	12455.7	11806.6	11622.5
45°	12365.1	12410.4	12730.4	13192.3	13587.7	13750.8	13608.9	13361.3	12724.4	11981.7	11710.0
47.5°	12639.8	12700.2	13023.2	13482.1	13928.9	14022.5	13853.4	13621.0	12881.3	12144.7	11779.5
50°	12491.9	12570.4	12935.7	13361.3	13865.5	14058.7	13937.9	13705.5	13047.4	12304.7	11903.2
52.5°	12108.5	12184.0	12645.9	13162.1	13732.6	14116.0	14113.0	13922.8	13237.6	12350.0	11909.3
55°	10798.3	10946.3	11664.8	12555.3	13569.6	14285.1	14357.5	14155.3	13267.7	12362.1	11972.7
57.5°	7027.8	7287.4	7969.7	9128.9	11163.6	12993.0	13482.1	13530.4	13050.4	12310.8	11984.7
60°	2934.3	3142.6	3683.0	4452.8	6134.3	8310.8	9258.7	10209.7	11356.8	11773.4	11873.0
62.5°	1823.4	1841.5	1895.8	2070.9	2632.4	3695.0	4304.8	5195.4	6901.0	8353.1	9023.3
65°	1645.3	1654.3	1666.4	1654.3	1681.5	1811.3	1974.3	2285.3	2979.6	3701.1	4558.4
67.5°	1449.0	1461.1	1470.2	1461.1	1470.2	1476.2	1494.3	1521.5	1648.3	1750.9	1829.4
70°	1171.3	1189.4	1204.5	1198.5	1234.7	1234.7	1252.8	1273.9	1337.3	1412.8	1467.2
72.5°	893.6	878.5	896.6	902.6	935.8	953.9	981.1	1005.3	1077.7	1123.0	1192.4
75°	579.6	564.5	591.7	606.8	652.1	676.2	700.4	724.5	775.8	806.0	872.4
77.5°	314.0	310.9	338.1	359.2	407.5	437.7	455.8	474.0	516.2	525.3	567.5
80°	181.1	181.1	199.2	214.3	244.5	277.7	295.8	310.9	341.1	350.2	368.3
82.5°	99.6	99.6	108.7	117.7	141.9	160.0	175.1	187.2	214.3	223.4	232.4
85°	48.3	45.3	51.3	57.4	66.4	75.5	84.5	90.6	111.7	117.7	129.8
87.5°	6.0	6.0	6.0	9.1	12.1	18.1	21.1	21.1	33.2	39.2	45.3
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°	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4	6149.4
2.5°	6209.7	6170.5	6194.6	6203.7	6203.7	6194.6	6155.4	6143.3	6125.2	6098.0	6098.0
5°	6348.6	6318.4	6324.4	6309.3	6273.1	6227.8	6155.4	6119.2	6089.0	6055.8	6052.7
7.5°	6587.1	6547.8	6541.8	6484.4	6387.8	6291.2	6182.6	6116.1	6070.9	6028.6	6025.6
10°	6898.0	6861.8	6816.5	6701.8	6559.9	6418.0	6270.1	6179.5	6113.1	6052.7	6049.7
12.5°	7245.2	7202.9	7118.4	6949.3	6771.2	6632.4	6463.3	6324.4	6224.8	6143.3	6128.2
15°	7622.5	7562.2	7417.3	7218.0	7042.9	6895.0	6713.9	6514.6	6363.7	6233.9	6218.8
17.5°	7912.3	7833.9	7676.9	7489.7	7344.8	7196.9	6961.4	6710.9	6493.5	6330.5	6306.3
20°	8111.6	8048.2	7870.1	7731.2	7646.7	7516.9	7242.2	6958.4	6713.9	6508.6	6496.5
22.5°	8295.7	8220.3	8045.2	7963.7	7963.7	7876.1	7613.5	7278.4	6991.6	6753.1	6722.9
25°	8504.0	8422.5	8289.7	8280.6	8322.9	8283.7	7966.7	7607.4	7272.4	7003.7	6955.4
27.5°	8793.8	8703.3	8624.8	8679.1	8739.5	8697.2	8344.0	7927.4	7574.2	7302.5	7260.3
30°	9255.7	9144.0	9071.6	9138.0	9255.7	9132.0	8748.6	8307.8	7951.6	7652.7	7631.6
32.5°	9793.1	9666.3	9590.8	9696.5	9802.1	9608.9	9228.6	8805.9	8431.6	8117.6	8081.4
35°	10439.1	10279.1	10167.4	10309.3	10418.0	10227.8	9850.4	9448.9	9032.3	8706.3	8658.0
37.5°	11012.7	10819.5	10744.0	10943.3	11088.2	10964.4	10553.8	10176.5	9720.6	9364.4	9343.3
40°	11429.3	11239.1	11184.8	11513.8	11767.4	11737.2	11368.9	10937.2	10508.5	10098.0	10058.7
42.5°	11610.4	11477.6	11489.7	11933.4	12325.9	12519.1	12190.0	11728.1	11314.6	10888.9	10861.7
45°	11649.7	11568.1	11664.8	12220.2	12736.4	13131.9	12851.1	12464.7	11996.8	11586.3	11574.2
47.5°	11691.9	11646.6	11794.6	12383.2	12996.1	13454.9	13297.9	12899.5	12425.5	12024.0	11993.8
50°	11791.5	11773.4	11939.5	12497.9	13119.8	13542.5	13364.3	12968.9	12482.9	12087.4	12014.9
52.5°	11821.7	11791.5	12030.0	12676.1	13325.1	13539.4	13156.1	12639.8	12150.8	11710.0	11634.6
55°	11915.3	11861.0	12024.0	12742.5	13608.9	13714.5	13144.0	12371.2	11688.9	11088.2	10910.0
57.5°	11939.5	11879.1	11984.7	12633.8	13301.0	13207.4	11553.1	9983.3	8697.2	8030.1	8105.6
60°	11809.7	11827.8	11646.6	11574.2	10668.5	9418.7	7073.1	5654.3	4440.7	3927.5	4039.2
62.5°	8990.1	9065.5	8446.7	7344.8	5648.2	4476.9	2961.5	2300.3	1947.1	1856.6	1871.7
65°	4537.3	4639.9	3996.9	3305.6	2457.3	1986.4	1717.7	1663.4	1645.3	1624.1	1624.1
67.5°	1796.2	1826.4	1802.2	1687.5	1569.8	1527.5	1515.5	1509.4	1488.3	1476.2	1479.2
70°	1443.0	1467.2	1430.9	1358.5	1310.2	1307.2	1301.1	1289.0	1273.9	1273.9	1283.0
72.5°	1177.3	1201.5	1150.2	1104.9	1068.7	1041.5	1026.4	1017.3	996.2	996.2	1005.3
75°	866.4	881.5	839.2	833.2	794.0	766.8	742.6	730.6	703.4	691.3	700.4
77.5°	576.6	573.6	552.4	552.4	537.4	504.1	477.0	449.8	413.6	389.4	395.5
80°	374.3	374.3	365.3	365.3	350.2	323.0	289.8	262.6	241.5	223.4	223.4
82.5°	238.5	235.5	232.4	229.4	223.4	196.2	172.1	154.0	138.9	126.8	129.8
85°	132.8	132.8	126.8	126.8	114.7	99.6	87.5	75.5	66.4	63.4	63.4
87.5°	45.3	45.3	42.3	42.3	36.2	27.2	21.1	18.1	15.1	12.1	15.1
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)