

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: P641217

Luminaire Tested: GWS-SA5F-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641217
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36793.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

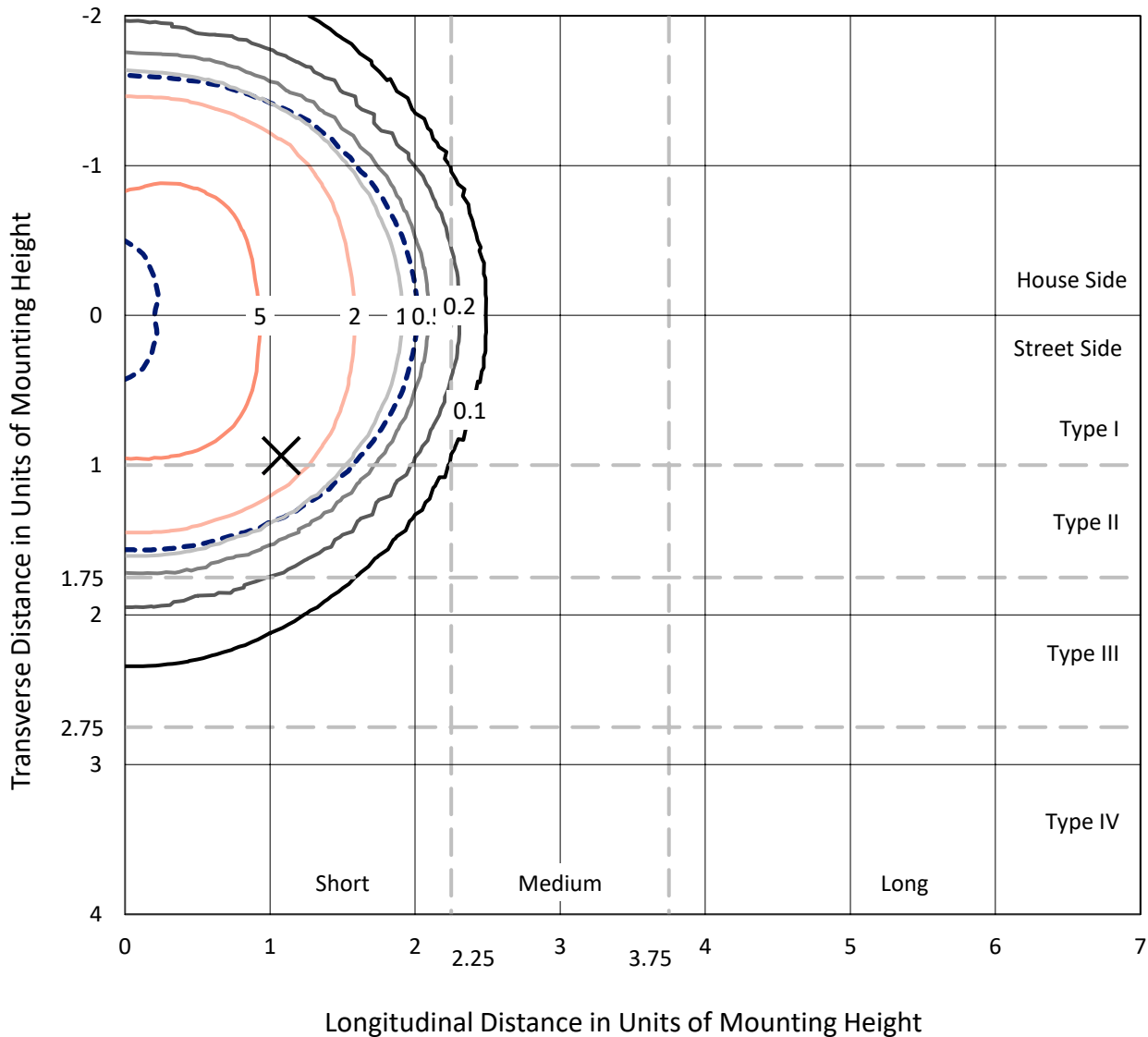
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

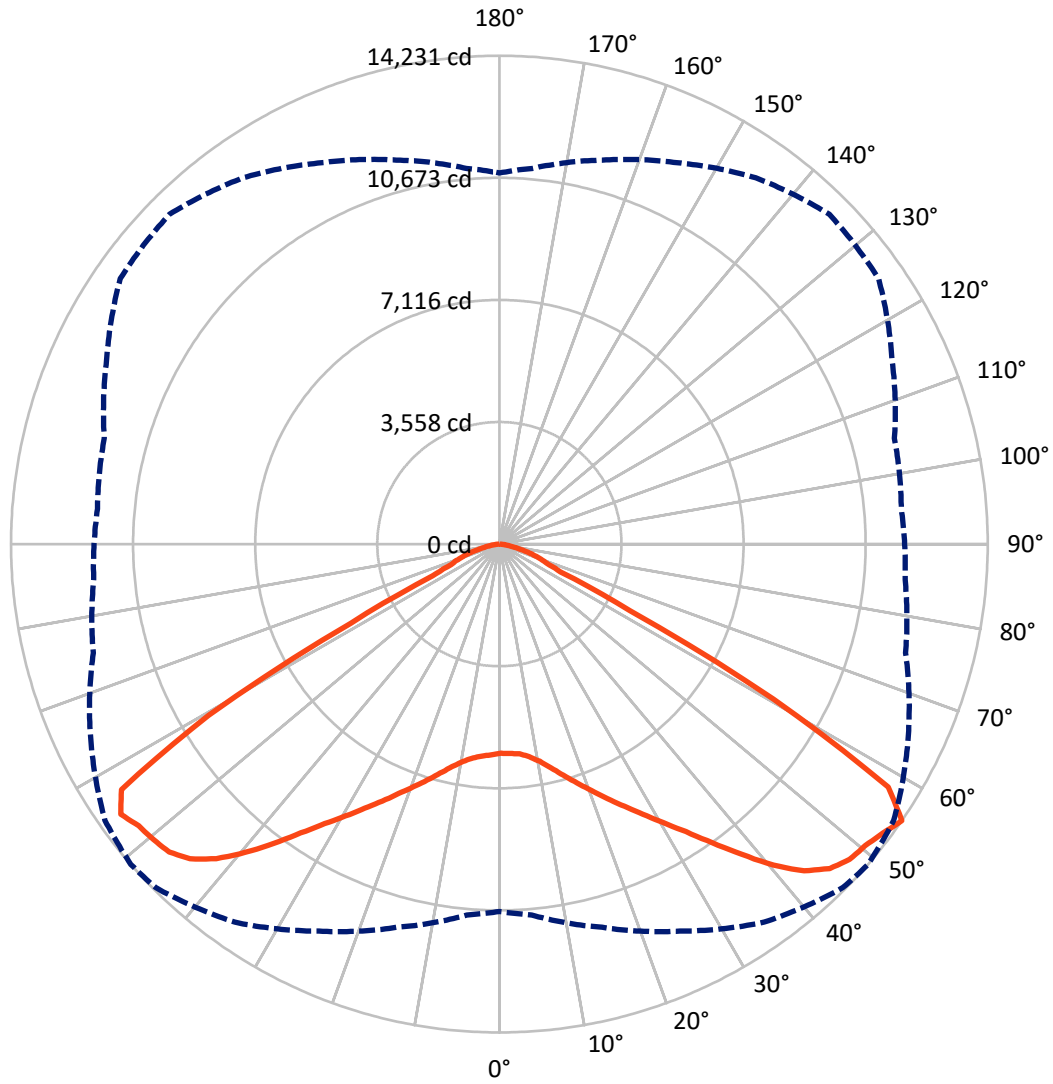
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	18216.5	0.0	18216.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	18577.4	0.0	18577.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	36793.9	0.0	36793.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.6	1.6
10°-20°	1961.2	5.3
20°-30°	3735.5	10.2
30°-40°	6332.5	17.2
40°-50°	9529.9	25.9
50°-60°	10431.4	28.4
60°-70°	3298.5	9.0
70°-80°	791.6	2.2
80°-90°	118.8	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°	36793.9	100.0
0°-180°	36793.9	100.0

Coefficient of Utilization



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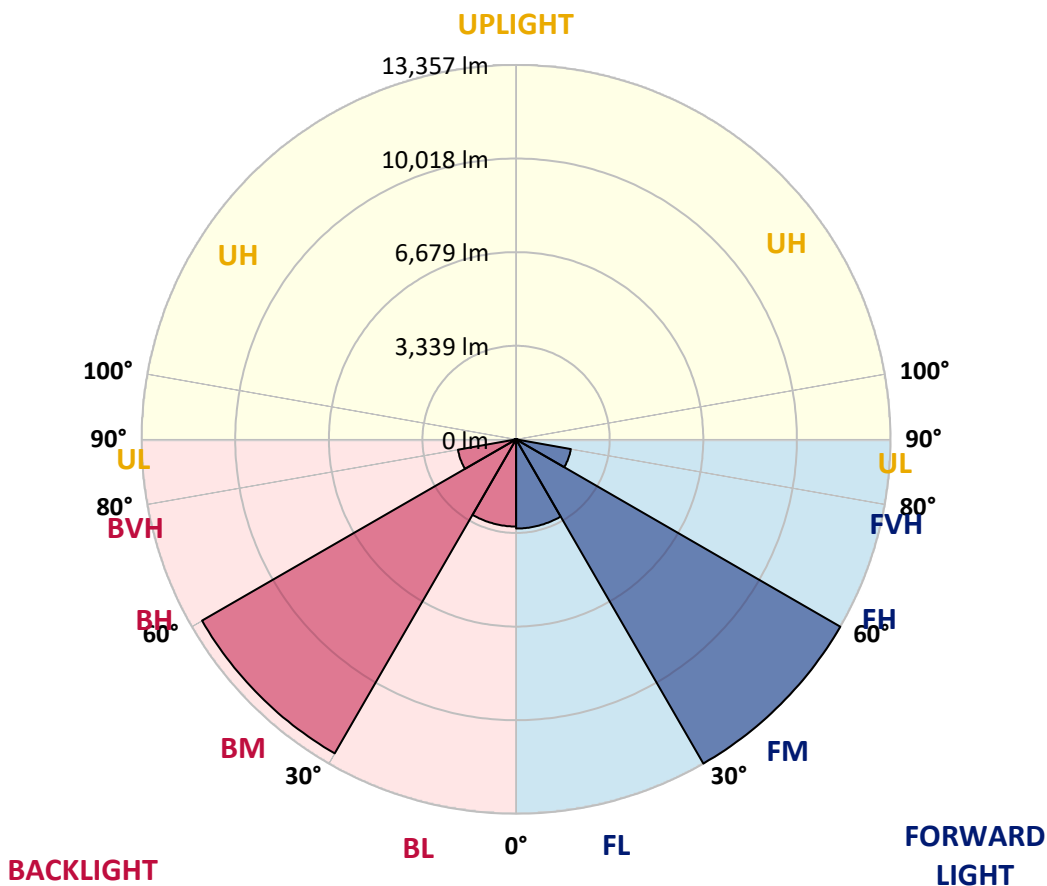
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3181.2	8.6			
FM (30°-60°)	13357.2	36.3			
FH (60°-80°)	1984.1	5.4			G2/5000
FVH (80°-90°)	55.0	0.1			G1/100
BL (0°-30°)	3110.1	8.5	B4/5000		
BM (30°-60°)	12936.5	35.2	B5		
BH (60°-80°)	2106.0	5.7	B3/2500		G2/5000
BVH (80°-90°)	63.8	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°	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1
2.5°	6005.4	6011.4	6023.3	6044.3	6065.2	6095.1	6107.1	6122.1	6119.1	6137.0	6137.0
5°	5975.4	5984.4	6002.4	6032.3	6068.2	6125.1	6140.0	6175.9	6211.8	6256.7	6271.7
7.5°	6011.4	6023.3	6044.3	6092.1	6146.0	6220.8	6250.7	6310.6	6379.4	6460.2	6493.1
10°	6080.2	6095.1	6131.0	6208.8	6295.6	6409.3	6436.2	6511.0	6621.8	6732.5	6798.3
12.5°	6158.0	6181.9	6247.7	6370.4	6499.1	6648.7	6690.6	6783.3	6903.0	7046.7	7136.4
15°	6247.7	6268.7	6370.4	6544.0	6744.4	6941.9	6989.8	7079.6	7214.2	7354.9	7480.5
17.5°	6436.2	6472.2	6591.8	6792.3	7025.7	7259.1	7313.0	7414.7	7522.4	7633.1	7752.8
20°	6693.6	6723.5	6876.1	7124.5	7399.7	7612.2	7666.0	7755.8	7806.7	7863.5	7965.3
22.5°	6950.9	6992.8	7166.3	7459.6	7782.7	8013.1	8055.0	8138.8	8102.9	8085.0	8150.8
25°	7271.1	7327.9	7498.5	7818.6	8147.8	8432.0	8465.0	8536.8	8476.9	8384.2	8381.2
27.5°	7669.0	7719.9	7896.4	8225.6	8551.7	8848.0	8910.8	9006.6	8874.9	8761.2	8680.4
30°	8141.8	8174.7	8369.2	8719.3	9054.4	9335.7	9416.5	9512.2	9413.5	9225.0	9144.2
32.5°	8692.4	8737.3	8961.7	9329.7	9628.9	9910.2	9991.0	10110.7	10003.0	9790.5	9688.8
35°	9353.6	9398.5	9634.9	10035.9	10341.1	10631.3	10688.2	10786.9	10652.3	10406.9	10326.1
37.5°	10071.8	10128.6	10427.9	10807.9	11128.0	11466.2	11469.1	11499.1	11307.6	11002.4	10912.6
40°	10879.7	10954.5	11253.7	11648.7	12034.7	12310.0	12307.0	12223.2	11900.0	11427.3	11289.6
42.5°	11678.6	11738.4	12040.7	12447.6	12833.6	13093.9	13016.1	12812.6	12345.9	11702.5	11520.0
45°	12256.1	12301.0	12618.2	13076.0	13467.9	13629.5	13488.9	13243.5	12612.2	11876.1	11606.8
47.5°	12528.4	12588.2	12908.4	13363.2	13806.1	13898.8	13731.3	13500.9	12767.8	12037.7	11675.6
50°	12381.8	12459.6	12821.6	13243.5	13743.2	13934.7	13815.0	13584.6	12932.3	12196.2	11798.3
52.5°	12001.8	12076.6	12534.4	13046.0	13611.6	13991.6	13988.6	13800.1	13120.8	12241.1	11804.3
55°	10703.1	10849.8	11561.9	12444.6	13450.0	14159.1	14231.0	14030.5	13150.8	12253.1	11867.1
57.5°	6965.9	7223.2	7899.4	9048.4	11065.2	12878.5	13363.2	13411.1	12935.3	12202.2	11879.1
60°	2908.4	3114.9	3650.5	4413.5	6080.2	8237.6	9177.1	10119.7	11256.7	11669.6	11768.4
62.5°	1807.3	1825.2	1879.1	2052.7	2609.2	3662.5	4266.9	5149.6	6840.2	8279.4	8943.7
65°	1630.8	1639.7	1651.7	1639.7	1666.7	1795.3	1956.9	2265.1	2953.3	3668.5	4518.2
67.5°	1436.3	1448.2	1457.2	1448.2	1457.2	1463.2	1481.1	1508.1	1633.7	1735.5	1813.3
70°	1161.0	1178.9	1193.9	1187.9	1223.8	1223.8	1241.8	1262.7	1325.5	1400.4	1454.2
72.5°	885.7	870.7	888.7	894.7	927.6	945.5	972.5	996.4	1068.2	1113.1	1181.9
75°	574.5	559.5	586.5	601.4	646.3	670.3	694.2	718.1	769.0	798.9	864.7
77.5°	311.2	308.2	335.1	356.1	403.9	433.9	451.8	469.8	511.7	520.6	562.5
80°	179.5	179.5	197.5	212.4	242.4	275.3	293.2	308.2	338.1	347.1	365.0
82.5°	98.7	98.7	107.7	116.7	140.6	158.6	173.5	185.5	212.4	221.4	230.4
85°	47.9	44.9	50.9	56.9	65.8	74.8	83.8	89.8	110.7	116.7	128.7
87.5°	6.0	6.0	6.0	9.0	12.0	18.0	20.9	20.9	32.9	38.9	44.9
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°	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1	6095.1
2.5°	6155.0	6116.1	6140.0	6149.0	6149.0	6140.0	6101.1	6089.1	6071.2	6044.3	6044.3
5°	6292.6	6262.7	6268.7	6253.7	6217.8	6172.9	6101.1	6065.2	6035.3	6002.4	5999.4
7.5°	6529.0	6490.1	6484.1	6427.3	6331.5	6235.8	6128.0	6062.2	6017.3	5975.4	5972.5
10°	6837.2	6801.3	6756.4	6642.7	6502.1	6361.4	6214.8	6125.1	6059.2	5999.4	5996.4
12.5°	7181.3	7139.4	7055.6	6888.1	6711.5	6573.9	6406.3	6268.7	6169.9	6089.1	6074.2
15°	7555.3	7495.5	7351.9	7154.4	6980.8	6834.2	6654.7	6457.2	6307.6	6178.9	6164.0
17.5°	7842.6	7764.8	7609.2	7423.7	7280.0	7133.4	6900.0	6651.7	6436.2	6274.7	6250.7
20°	8040.1	7977.2	7800.7	7663.1	7579.3	7450.6	7178.3	6897.0	6654.7	6451.2	6439.2
22.5°	8222.6	8147.8	7974.2	7893.5	7893.5	7806.7	7546.4	7214.2	6930.0	6693.6	6663.7
25°	8429.1	8348.3	8216.6	8207.6	8249.5	8210.6	7896.4	7540.4	7208.2	6941.9	6894.1
27.5°	8716.3	8626.5	8548.7	8602.6	8662.4	8620.6	8270.5	7857.5	7507.5	7238.2	7196.3
30°	9174.1	9063.4	8991.6	9057.4	9174.1	9051.4	8671.4	8234.6	7881.5	7585.3	7564.3
32.5°	9706.7	9581.1	9506.3	9611.0	9715.7	9524.2	9147.2	8728.3	8357.2	8046.1	8010.1
35°	10347.1	10188.5	10077.8	10218.4	10326.1	10137.6	9763.6	9365.6	8952.7	8629.5	8581.7
37.5°	10915.6	10724.1	10649.3	10846.8	10990.4	10867.7	10460.8	10086.7	9634.9	9281.8	9260.9
40°	11328.5	11140.0	11086.1	11412.3	11663.6	11633.7	11268.7	10840.8	10415.9	10008.9	9970.0
42.5°	11508.0	11376.4	11388.4	11828.2	12217.2	12408.7	12082.5	11624.7	11214.8	10792.9	10766.0
45°	11546.9	11466.2	11561.9	12112.5	12624.1	13016.1	12737.8	12354.8	11891.0	11484.1	11472.1
47.5°	11588.8	11543.9	11690.6	12274.0	12881.5	13336.3	13180.7	12785.7	12315.9	11918.0	11888.1
50°	11687.6	11669.6	11834.2	12387.8	13004.1	13423.1	13246.5	12854.5	12372.8	11980.8	11909.0
52.5°	11717.5	11687.6	11924.0	12564.3	13207.6	13420.1	13040.1	12528.4	12043.6	11606.8	11532.0
55°	11810.3	11756.4	11918.0	12630.1	13488.9	13593.6	13028.1	12262.1	11585.8	10990.4	10813.8
57.5°	11834.2	11774.3	11879.1	12522.4	13183.7	13090.9	11451.2	9895.2	8620.6	7959.3	8034.1
60°	11705.5	11723.5	11543.9	11472.1	10574.5	9335.7	7010.7	5604.4	4401.5	3892.9	4003.6
62.5°	8910.8	8985.6	8372.2	7280.0	5598.4	4437.4	2935.4	2280.1	1930.0	1840.2	1855.2
65°	4497.3	4599.0	3961.7	3276.5	2435.7	1968.9	1702.6	1648.7	1630.8	1609.8	1609.8
67.5°	1780.4	1810.3	1786.3	1672.6	1555.9	1514.1	1502.1	1496.1	1475.2	1463.2	1466.2
70°	1430.3	1454.2	1418.3	1346.5	1298.6	1295.6	1289.6	1277.7	1262.7	1262.7	1271.7
72.5°	1167.0	1190.9	1140.0	1095.1	1059.2	1032.3	1017.4	1008.4	987.4	987.4	996.4
75°	858.8	873.7	831.8	825.9	787.0	760.0	736.1	724.1	697.2	685.2	694.2
77.5°	571.5	568.5	547.6	547.6	532.6	499.7	472.8	445.8	409.9	386.0	392.0
80°	371.0	371.0	362.1	362.1	347.1	320.2	287.3	260.3	239.4	221.4	221.4
82.5°	236.4	233.4	230.4	227.4	221.4	194.5	170.6	152.6	137.6	125.7	128.7
85°	131.7	131.7	125.7	125.7	113.7	98.7	86.8	74.8	65.8	62.8	62.8
87.5°	44.9	44.9	41.9	41.9	35.9	26.9	20.9	18.0	15.0	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

(END OF REPORT)