

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: P638753

Luminaire Tested: GWS-SA4F-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638753
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-SA4F-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32676.9 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

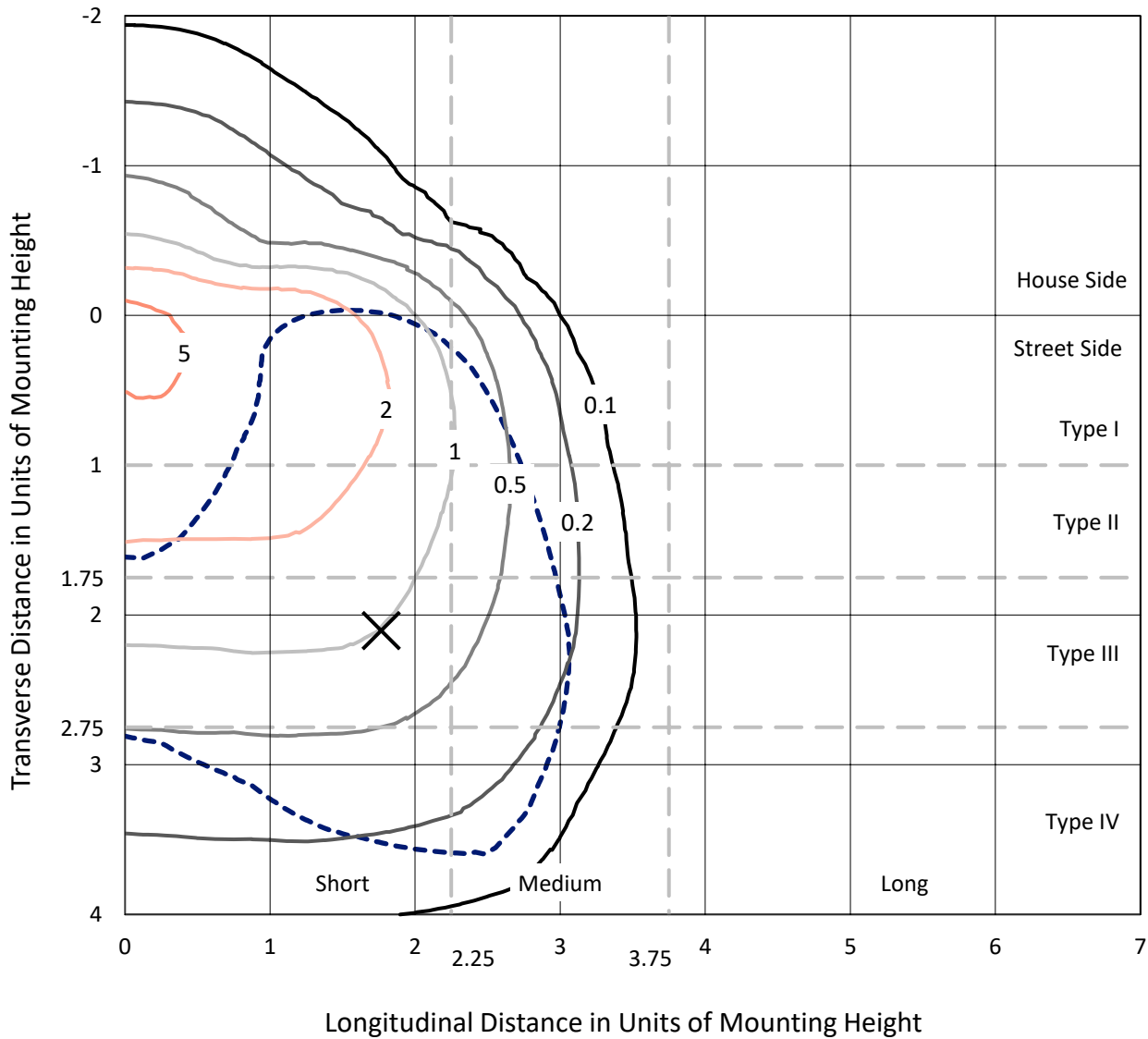
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638753
 CATALOG NUMBER: GWS-SA4F-740-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

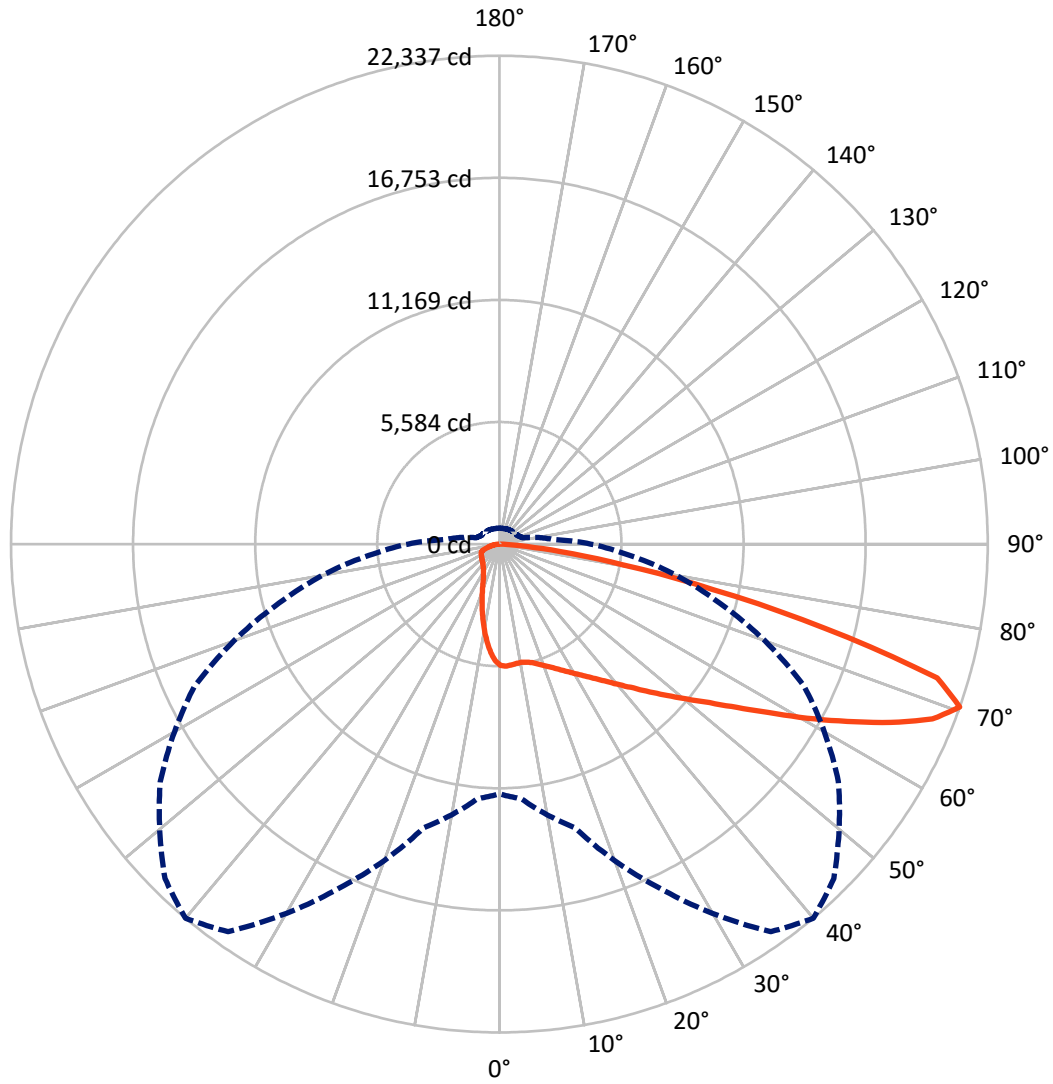
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P638753
CATALOG NUMBER: GWS-SA4F-740-U-SL4-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638753

CATALOG NUMBER: GWS-SA4F-740-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5033.1	0.0	5033.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	27643.8	0.0	27643.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	32676.9	0.0	32676.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.2	1.5
10°-20°	1277.7	3.9
20°-30°	2006.3	6.1
30°-40°	3016.5	9.2
40°-50°	4656.1	14.2
50°-60°	6914.6	21.2
60°-70°	8715.8	26.7
70°-80°	5040.3	15.4
80°-90°	559.4	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°	32676.9	100.0
0°-180°	32676.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638753

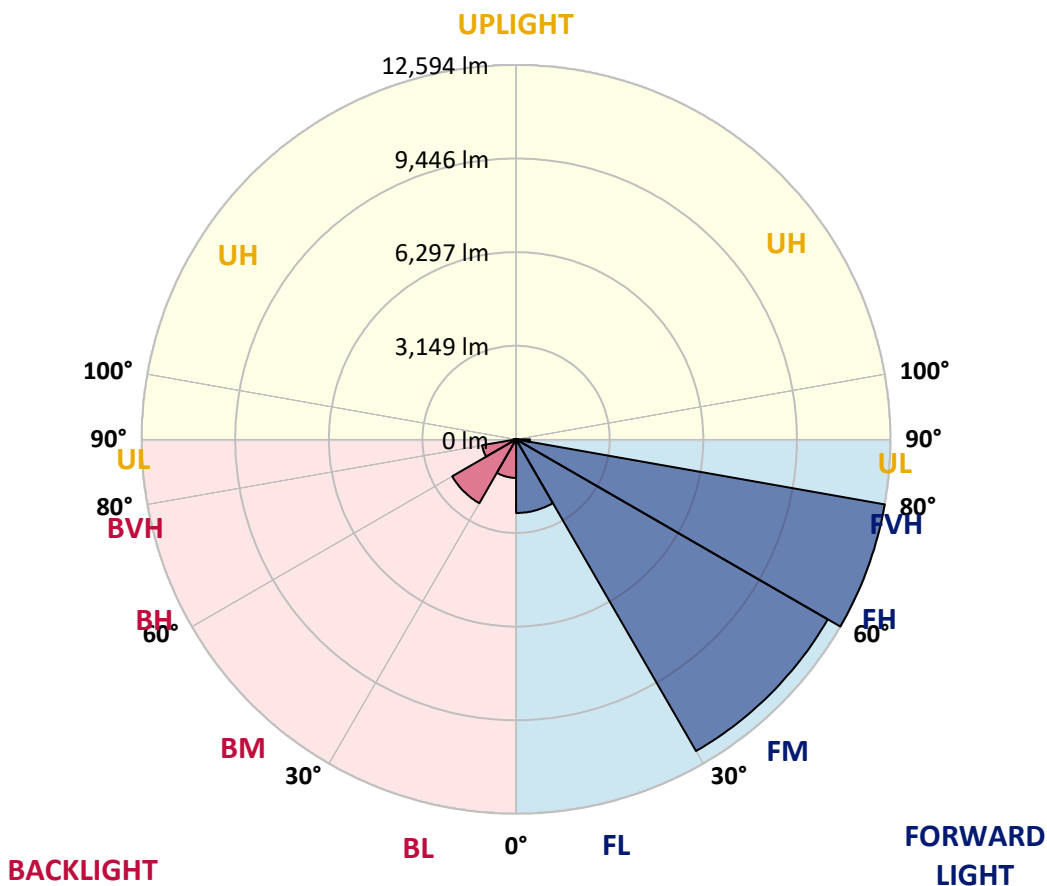
CATALOG NUMBER: GWS-SA4F-740-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2477.2	7.6			
FM (30°-60°)	12106.4	37.0			
FH (60°-80°)	12594.4	38.5			G5
FVH (80°-90°)	465.9	1.4			G3/500
BL (0°-30°)	1297.1	4.0	B3/2500		
BM (30°-60°)	2480.9	7.6	B2/2500		
BH (60°-80°)	1161.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	93.5	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: P638753
 CATALOG NUMBER: GWS-SA4F-740-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9
2.5°	5583.1	5592.8	5600.1	5609.9	5605.0	5590.4	5602.6	5602.6	5575.7	5546.5	5519.6
5°	5590.4	5602.6	5600.1	5597.7	5578.2	5553.8	5553.8	5539.2	5492.8	5446.5	5402.6
7.5°	5575.7	5573.3	5570.9	5563.5	5541.6	5514.8	5509.9	5480.6	5419.6	5356.2	5292.8
10°	5509.9	5507.4	5514.8	5531.8	5527.0	5502.6	5502.6	5475.7	5405.0	5327.0	5244.0
12.5°	5456.2	5456.2	5485.5	5531.8	5548.9	5539.2	5541.6	5522.1	5441.6	5348.9	5251.3
15°	5463.5	5466.0	5529.4	5605.0	5636.7	5629.4	5631.8	5609.9	5519.6	5427.0	5295.2
17.5°	5512.3	5524.5	5634.3	5739.2	5780.6	5770.9	5753.8	5717.2	5614.8	5509.9	5348.9
20°	5614.8	5634.3	5775.7	5907.5	5956.2	5934.3	5905.0	5831.8	5719.6	5605.0	5407.4
22.5°	5817.2	5829.4	5985.5	6114.8	6153.8	6127.0	6068.4	5963.6	5834.3	5714.8	5478.2
25°	6102.6	6117.2	6266.0	6385.5	6375.8	6344.1	6263.6	6134.3	5980.6	5853.8	5580.6
27.5°	6441.6	6466.0	6612.4	6707.5	6644.1	6597.7	6507.5	6351.4	6178.2	6063.6	5736.7
30°	6812.4	6822.1	6946.5	7041.6	6944.1	6880.7	6770.9	6602.6	6446.5	6361.1	5970.9
32.5°	7170.9	7180.7	7288.0	7341.6	7239.2	7192.9	7097.7	6919.7	6809.9	6763.6	6319.7
35°	7549.0	7546.5	7634.3	7680.7	7575.8	7556.3	7458.7	7322.1	7302.6	7363.6	6829.4
37.5°	7927.0	7905.1	7951.4	8012.4	7953.8	7973.4	7909.9	7863.6	7939.2	8097.8	7507.5
40°	8229.5	8229.5	8278.2	8353.9	8373.4	8458.7	8422.2	8483.1	8727.0	9105.1	8346.5
42.5°	8497.8	8500.2	8602.6	8719.7	8861.2	8992.9	9022.2	9180.7	9685.6	10278.3	9400.2
45°	8778.3	8780.7	8919.7	9090.5	9390.5	9641.7	9700.2	10056.3	10778.3	11500.3	10544.2
47.5°	9102.7	9075.8	9268.5	9553.9	9980.7	10341.7	10492.9	10997.8	11910.0	12797.9	11622.2
50°	9468.5	9412.4	9627.1	10119.8	10646.6	11141.7	11395.4	11973.5	13124.7	13995.5	12636.9
52.5°	9880.7	9849.0	10073.4	10673.4	11478.3	12049.1	12393.0	13151.5	14305.2	15188.2	13441.8
55°	10392.9	10317.3	10641.7	11405.1	12454.0	13180.8	13588.1	14317.4	15595.5	16271.1	14056.4
57.5°	10953.9	10871.0	11305.1	12319.8	13722.3	14519.9	15029.6	15629.6	16810.2	17100.4	14417.4
60°	11558.8	11532.0	12046.6	13393.0	15234.5	16161.4	16529.7	17073.6	17866.3	17580.9	14327.2
62.5°	12112.5	12102.7	12851.5	14556.4	16837.0	17856.5	18149.2	18293.1	18627.3	17549.2	13610.1
65°	12695.4	12778.4	13790.6	15905.3	18673.6	19673.6	19795.6	19429.7	18883.4	16717.5	12141.8
67.5°	12768.6	12929.6	14380.8	17168.7	20415.1	21359.0	21261.5	19861.4	18127.3	14402.8	9517.3
70°	11419.8	11700.3	13439.3	17361.4	21642.0	22337.1	21632.2	18932.2	15383.3	10434.4	5985.5
72.5°	9541.7	9783.2	11319.8	14805.2	20059.0	20944.4	19990.7	16024.8	10871.0	5985.5	3048.9
75°	7427.0	7707.5	9124.6	11768.6	15017.4	15371.1	14893.0	11175.9	5975.8	2468.4	1385.4
77.5°	4531.8	4734.3	5836.7	7973.4	10507.6	9978.3	8456.3	6266.0	2622.0	1183.0	856.1
80°	2004.9	2129.3	2875.7	4283.0	6070.9	5739.2	4524.5	2675.7	1434.2	751.2	597.6
82.5°	1075.6	1156.1	1417.1	1695.2	2665.9	2787.9	2261.0	1541.5	770.8	429.3	341.5
85°	473.2	519.5	643.9	614.6	875.6	861.0	868.3	1058.6	368.3	197.6	222.0
87.5°	0.0	0.0	0.0	0.0	2.4	2.4	26.8	141.5	36.6	58.5	51.2
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: P638753
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9	5548.9
2.5°	5490.4	5446.5	5434.3	5419.6	5392.8	5346.5	5312.3	5273.3	5256.2	5236.7	5239.1
5°	5353.8	5300.1	5248.9	5183.0	5100.1	5007.4	4944.0	4870.8	4831.8	4795.2	4805.0
7.5°	5236.7	5153.8	5048.9	4909.9	4761.1	4595.2	4461.1	4356.2	4285.5	4236.7	4261.1
10°	5163.5	5066.0	4883.0	4656.2	4405.0	4151.3	3958.6	3778.1	3665.9	3578.1	3573.3
12.5°	5148.9	5022.1	4756.2	4426.9	4063.5	3724.5	3441.5	3197.6	3048.9	2939.1	2980.6
15°	5163.5	5002.6	4646.5	4214.7	3756.2	3297.6	2946.4	2665.9	2487.9	2387.9	2380.5
17.5°	5180.6	4983.0	4522.1	3985.5	3434.2	2909.8	2502.5	2204.9	2022.0	1922.0	1924.4
20°	5195.2	4953.8	4375.7	3734.2	3107.4	2548.8	2126.9	1843.9	1680.5	1607.4	1619.6
22.5°	5219.6	4924.5	4219.6	3465.9	2773.2	2200.1	1829.3	1600.0	1502.5	1453.7	1456.1
25°	5266.0	4907.4	4058.6	3173.2	2444.0	1922.0	1624.4	1470.8	1409.8	1380.5	1378.1
27.5°	5361.1	4922.1	3890.3	2890.3	2146.4	1709.8	1492.7	1392.7	1351.3	1331.7	1329.3
30°	5519.6	4980.6	3744.0	2602.5	1890.3	1543.9	1402.5	1341.5	1317.1	1300.0	1297.6
32.5°	5761.1	5090.4	3585.5	2334.2	1683.0	1422.0	1331.7	1300.0	1283.0	1273.2	1273.2
35°	6127.0	5290.4	3429.3	2100.0	1522.0	1326.9	1275.6	1263.4	1248.8	1243.9	1248.8
37.5°	6653.8	5609.9	3287.9	1895.2	1407.4	1253.7	1214.7	1219.5	1207.3	1214.7	1222.0
40°	7322.1	6036.7	3168.4	1726.9	1322.0	1200.0	1161.0	1178.1	1170.8	1178.1	1190.3
42.5°	8168.5	6566.0	3078.1	1595.2	1261.0	1156.1	1119.5	1136.6	1131.7	1141.5	1153.7
45°	9112.4	7263.6	3036.7	1502.5	1217.1	1124.4	1085.4	1097.6	1092.7	1100.0	1112.2
47.5°	10017.3	7897.7	3073.2	1448.8	1180.5	1097.6	1056.1	1061.0	1058.6	1056.1	1063.4
50°	10797.8	8402.6	3178.1	1431.7	1156.1	1070.8	1031.7	1034.2	1026.9	1012.2	1017.1
52.5°	11434.4	8807.5	3241.5	1431.7	1143.9	1041.5	1004.9	1007.3	992.7	973.2	975.6
55°	11853.9	8970.9	3190.3	1429.3	1139.1	1017.1	978.1	980.5	965.9	941.5	943.9
57.5°	11973.5	8812.4	2975.7	1402.5	1134.2	997.6	951.2	956.1	946.4	919.5	919.5
60°	11639.3	8231.9	2583.0	1341.5	1122.0	985.4	931.7	939.0	934.2	907.3	907.3
62.5°	10763.7	7200.2	2114.7	1248.8	1087.8	970.8	914.7	929.3	941.5	926.9	924.4
65°	9124.6	5768.4	1719.6	1146.4	1043.9	946.4	890.3	926.9	953.7	973.2	973.2
67.5°	6846.5	4129.4	1402.5	1039.0	978.1	897.6	858.6	892.7	912.2	924.4	931.7
70°	4173.3	2429.3	1104.9	914.7	882.9	824.4	795.1	761.0	734.2	729.3	731.7
72.5°	2041.5	1390.3	897.6	778.1	753.7	700.0	634.2	619.5	607.3	600.0	597.6
75°	1124.4	968.3	741.5	646.4	602.5	536.6	522.0	497.6	492.7	482.9	485.4
77.5°	795.1	763.4	612.2	524.4	458.5	424.4	431.7	414.6	414.6	407.3	404.9
80°	597.6	600.0	470.7	382.9	339.0	326.8	334.2	334.2	329.3	326.8	324.4
82.5°	378.1	426.8	317.1	246.3	241.5	243.9	241.5	239.0	243.9	236.6	234.2
85°	261.0	307.3	192.7	146.3	146.3	143.9	148.8	146.3	151.2	143.9	143.9
87.5°	58.5	136.6	70.7	43.9	46.3	43.9	46.3	48.8	53.7	56.1	56.1
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)