

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: P633765

Luminaire Tested: GWS-SA2F-735-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-735-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16315.1 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

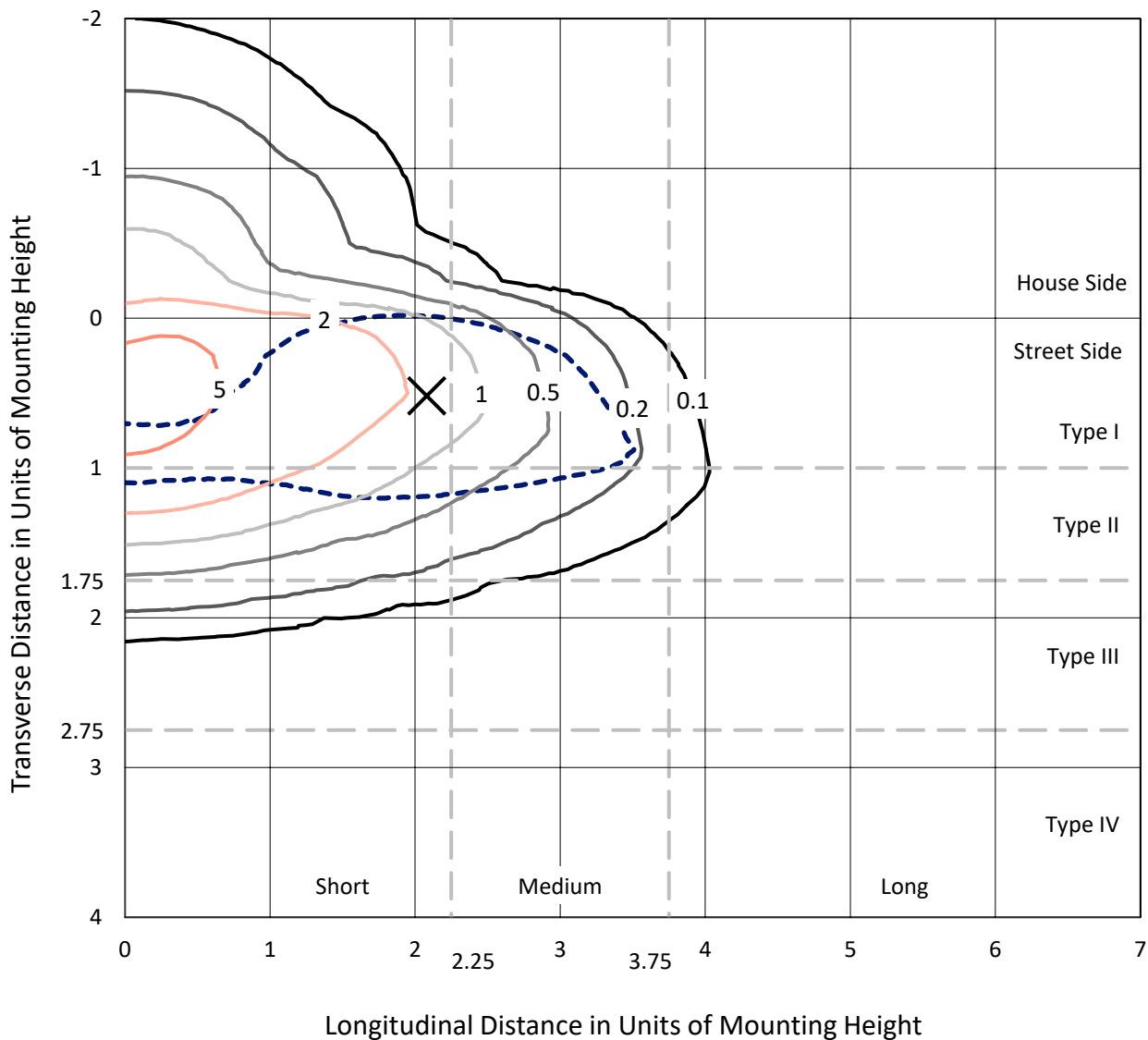
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

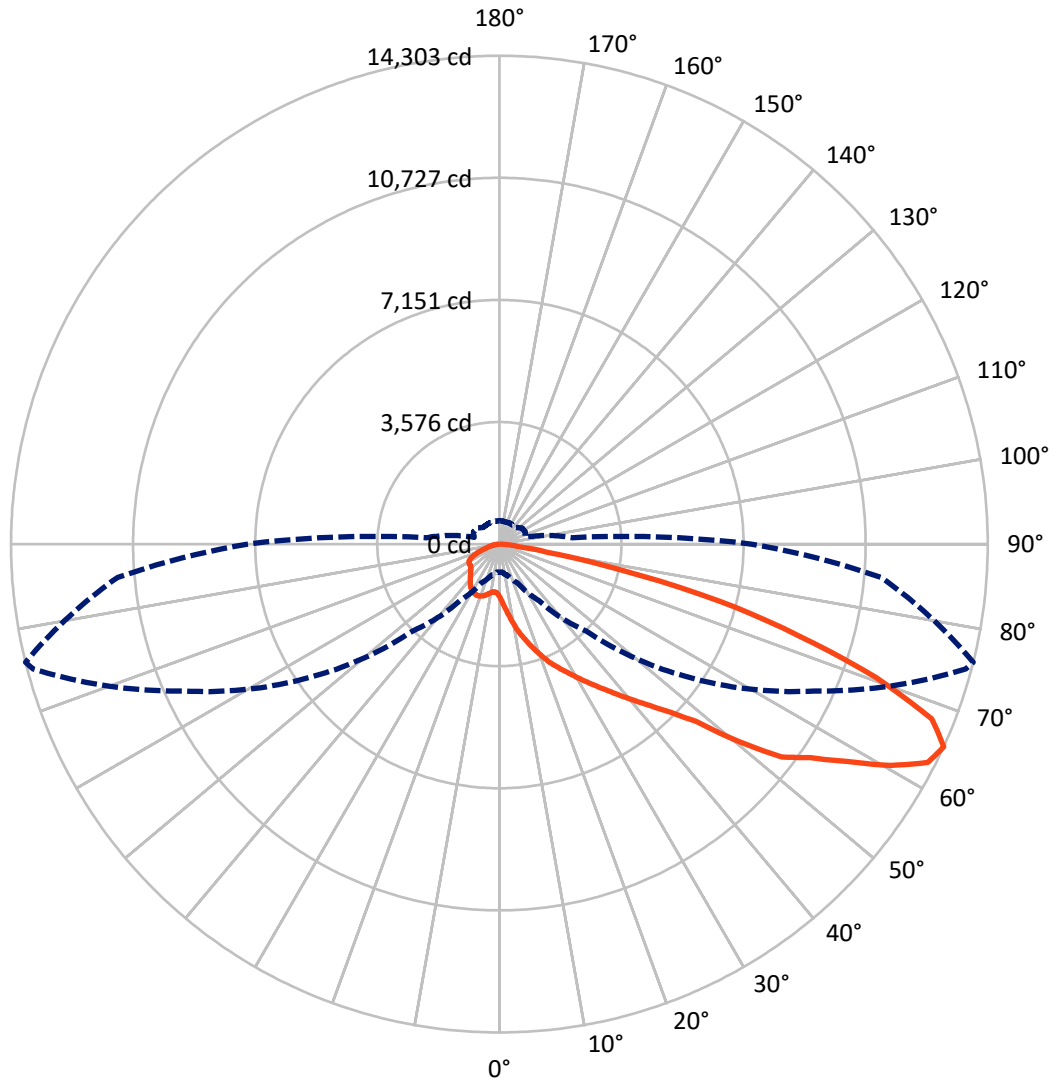
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2727.1	0.0	2727.1
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	13588.0	0.0	13588.0
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	16315.1	0.0	16315.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.5	1.1
10°-20°	699.1	4.3
20°-30°	1362.5	8.4
30°-40°	2278.7	14.0
40°-50°	3262.7	20.0
50°-60°	3862.5	23.7
60°-70°	3211.7	19.7
70°-80°	1314.3	8.1
80°-90°	139.9	0.9
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°	16315.1	100.0
0°-180°	16315.1	100.0

**Coefficient of Utilization**



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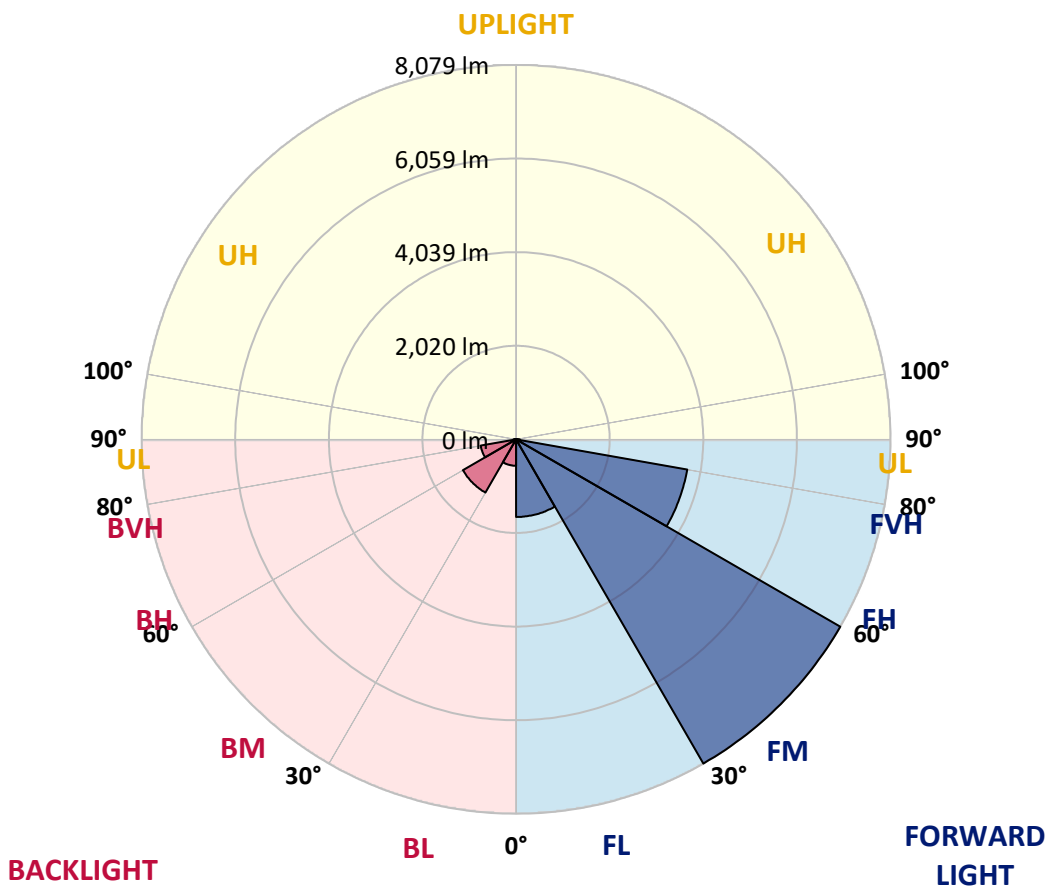
CATALOG NUMBER: GWS-SA2F-735-U-T2R-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.7	10.3			
FM (30°-60°)	8078.6	49.5			
FH (60°-80°)	3751.3	23.0			G2/5000
FVH (80°-90°)	83.5	0.5			G1/100
BL (0°-30°)	570.5	3.5	B2/1000		
BM (30°-60°)	1325.3	8.1	B2/2500		
BH (60°-80°)	774.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	56.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	2165.5	2173.5	2147.1	2138.0	2076.0	1992.3	1922.3	1816.8	1719.3	1704.4	1617.2
5°	2750.5	2716.0	2686.2	2666.7	2580.7	2485.5	2337.5	2139.1	1931.5	1906.3	1718.2
7.5°	3098.0	3092.3	3055.5	3044.1	2977.6	2882.4	2729.8	2483.2	2181.6	2140.3	1854.7
10°	3376.7	3373.3	3354.9	3365.2	3304.4	3211.5	3063.6	2808.9	2455.7	2414.4	2007.2
12.5°	3619.9	3625.6	3622.2	3660.0	3629.0	3556.8	3403.1	3123.2	2729.8	2685.1	2193.0
15°	3797.6	3802.2	3819.4	3902.0	3919.2	3904.3	3748.3	3431.8	3000.5	2936.3	2384.6
17.5°	3848.1	3857.3	3898.6	4031.6	4124.5	4186.5	4070.6	3746.0	3266.6	3196.6	2579.6
20°	3915.8	3926.1	3967.4	4106.2	4242.7	4383.8	4363.1	4064.9	3535.0	3477.6	2776.8
22.5°	4228.9	4220.9	4202.5	4269.1	4366.5	4542.0	4593.6	4371.1	3812.6	3757.5	2994.8
25°	4832.2	4817.3	4700.3	4639.5	4607.4	4714.1	4805.8	4649.8	4083.2	4000.7	3197.8
27.5°	5497.5	5489.4	5340.3	5195.8	4998.5	4952.7	5006.6	4893.0	4345.9	4262.2	3374.4
30°	6127.2	6103.1	5947.1	5765.9	5502.1	5304.8	5225.6	5131.6	4633.8	4546.6	3580.9
32.5°	6690.3	6659.4	6475.8	6275.1	5998.7	5765.9	5529.6	5385.1	4959.5	4858.6	3791.9
35°	7152.6	7121.6	6933.5	6720.1	6416.2	6244.1	5920.7	5660.3	5291.0	5188.9	4040.8
37.5°	7510.4	7481.7	7285.6	7075.7	6810.8	6674.3	6393.3	5970.0	5673.0	5566.3	4304.6
40°	7711.1	7690.5	7533.4	7367.0	7144.5	7026.4	6900.2	6361.1	6100.8	5994.1	4615.4
42.5°	7771.9	7758.2	7648.1	7562.0	7411.8	7322.3	7394.6	6821.1	6557.3	6464.4	4965.3
45°	7619.4	7619.4	7587.3	7630.8	7637.7	7636.6	7890.1	7340.7	7118.1	7016.1	5458.5
47.5°	7229.4	7254.6	7301.7	7516.1	7742.1	7931.4	8469.3	8033.4	7839.6	7755.9	6157.0
50°	6516.0	6584.8	6745.4	7164.0	7644.6	8126.3	9017.5	9057.7	9242.4	9094.4	7184.7
52.5°	5471.1	5460.8	5870.2	6466.7	7199.6	8134.4	9319.2	9961.5	10458.1	10356.1	7948.6
55°	4348.2	4331.0	4712.9	5535.3	6517.1	7827.0	9500.4	10375.6	11132.6	11040.8	8635.6
57.5°	3329.7	3307.9	3647.4	4389.5	5553.7	7174.3	9466.0	10868.8	12060.5	12013.4	9569.2
60°	2291.7	2265.3	2583.0	3232.2	4413.6	6176.5	9085.2	11122.2	13146.7	13162.7	10568.3
62.5°	1376.4	1361.5	1592.0	2095.5	3174.8	4940.0	8194.0	10968.6	14011.5	14083.7	11210.6
65°	830.4	820.1	955.4	1250.2	2014.1	3605.0	6819.9	10182.9	14136.5	14302.8	11225.5
67.5°	604.5	605.6	644.6	761.6	1174.5	2328.4	5117.8	8774.4	13485.0	13657.1	10517.8
70°	525.3	527.6	548.3	574.6	710.0	1332.8	3327.4	6926.6	11559.2	11692.3	8821.4
72.5°	466.8	466.8	480.6	494.3	555.1	812.1	1782.4	4841.4	9123.1	9158.6	6732.8
75°	410.6	407.2	414.1	420.9	481.7	567.8	867.1	3373.3	6738.5	6655.9	4351.6
77.5°	326.9	323.4	324.6	331.5	386.5	406.0	439.3	2107.0	3797.6	3584.3	1922.3
80°	232.8	230.5	243.2	260.4	285.6	248.9	275.3	1019.7	1506.0	1401.6	745.5
82.5°	138.8	143.4	162.9	176.6	197.3	156.0	177.8	340.7	533.3	519.6	302.8
85°	19.5	20.6	58.5	67.7	84.9	60.8	94.1	153.7	213.3	228.2	106.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.0	27.5	60.8	61.9	26.4
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°	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1572.5	1518.6	1441.8	1377.5	1323.6	1280.0	1243.3	1215.8	1207.8	1196.3	1196.3
5°	1629.9	1532.4	1394.7	1297.2	1241.0	1207.8	1184.8	1173.4	1167.6	1160.7	1157.3
7.5°	1709.0	1572.5	1386.7	1288.1	1244.5	1223.8	1208.9	1202.0	1197.4	1190.6	1190.6
10°	1818.0	1632.2	1411.9	1320.2	1285.8	1265.1	1247.9	1236.4	1226.1	1215.8	1213.5
12.5°	1936.1	1710.1	1457.8	1363.8	1327.1	1301.8	1277.7	1260.5	1247.9	1235.3	1231.9
15°	2066.9	1790.4	1507.1	1406.2	1360.3	1325.9	1297.2	1270.9	1253.6	1235.3	1233.0
17.5°	2195.3	1871.9	1548.4	1434.9	1376.4	1333.9	1292.6	1258.2	1236.4	1215.8	1210.1
20°	2349.0	1953.3	1577.1	1442.9	1372.9	1316.7	1267.4	1223.8	1199.7	1175.7	1172.2
22.5°	2490.1	2029.0	1590.9	1431.4	1346.6	1280.0	1222.7	1175.7	1149.3	1125.2	1120.6
25°	2626.6	2095.5	1585.1	1403.9	1306.4	1229.6	1169.9	1122.9	1097.7	1072.4	1065.5
27.5°	2758.5	2140.3	1562.2	1361.5	1255.9	1173.4	1116.0	1073.6	1051.8	1030.0	1020.8
30°	2888.1	2181.6	1526.6	1306.4	1191.7	1114.9	1067.8	1038.0	1016.2	993.3	986.4
32.5°	3018.8	2211.4	1472.7	1242.2	1126.3	1063.2	1034.6	1012.8	989.8	966.9	960.0
35°	3150.7	2224.0	1407.3	1168.8	1071.3	1030.0	1019.7	994.4	963.5	935.9	926.8
37.5°	3307.9	2235.5	1325.9	1096.5	1023.1	1013.9	1011.6	973.8	937.1	899.2	888.9
40°	3497.1	2250.4	1242.2	1031.1	984.1	1008.2	999.0	947.4	874.0	837.3	825.8
42.5°	3728.8	2277.9	1155.0	971.5	955.4	986.4	976.1	883.2	833.9	813.2	807.5
45°	4069.5	2378.8	1067.8	924.5	933.6	955.4	939.4	845.3	825.8	812.1	805.2
47.5°	4676.2	2533.7	992.1	888.9	916.4	927.9	866.0	835.0	820.1	801.7	793.7
50°	5307.1	2601.3	931.3	867.1	896.9	902.7	825.8	821.2	810.9	791.4	783.4
52.5°	5733.7	2592.2	894.6	859.1	880.9	859.1	807.5	806.3	799.4	776.5	767.3
55°	6215.5	2608.2	878.6	861.4	874.0	785.7	784.5	788.0	784.5	759.3	754.7
57.5°	6865.8	2657.5	870.6	869.4	869.4	750.1	762.7	767.3	760.4	749.0	745.5
60°	7490.9	2661.0	855.6	878.6	866.0	728.3	737.5	742.1	734.1	731.8	730.6
62.5°	7726.0	2495.8	822.4	871.7	852.2	704.2	711.1	713.4	705.4	711.1	710.0
65°	7376.2	2144.8	767.3	838.4	809.8	682.5	677.9	683.6	669.8	684.7	685.9
67.5°	6549.2	1704.4	683.6	775.4	750.1	658.4	649.2	649.2	626.3	649.2	648.0
70°	5280.7	1204.3	560.9	674.4	684.7	629.7	625.1	598.7	562.0	596.4	593.0
72.5°	4003.0	864.8	441.6	533.3	589.5	589.5	590.7	546.0	503.5	519.6	505.8
75°	2536.0	609.0	353.3	408.3	462.2	517.3	543.7	461.1	423.2	416.4	409.5
77.5°	1142.4	400.3	275.3	313.1	328.0	408.3	496.6	396.9	345.2	330.3	325.7
80°	478.3	248.9	196.1	221.4	201.9	342.9	438.1	308.5	253.5	232.8	217.9
82.5°	209.9	148.0	125.0	119.3	126.2	254.6	326.9	205.3	158.3	214.5	216.8
85°	88.3	78.0	64.2	58.5	51.6	97.5	153.7	80.3	98.6	56.2	45.9
87.5°	20.6	22.9	17.2	11.5	6.9	1.1	0.0	0.0	0.0	0.0	0.0
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)