

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: P633740

Luminaire Tested: GWS-SA2F-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13627.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

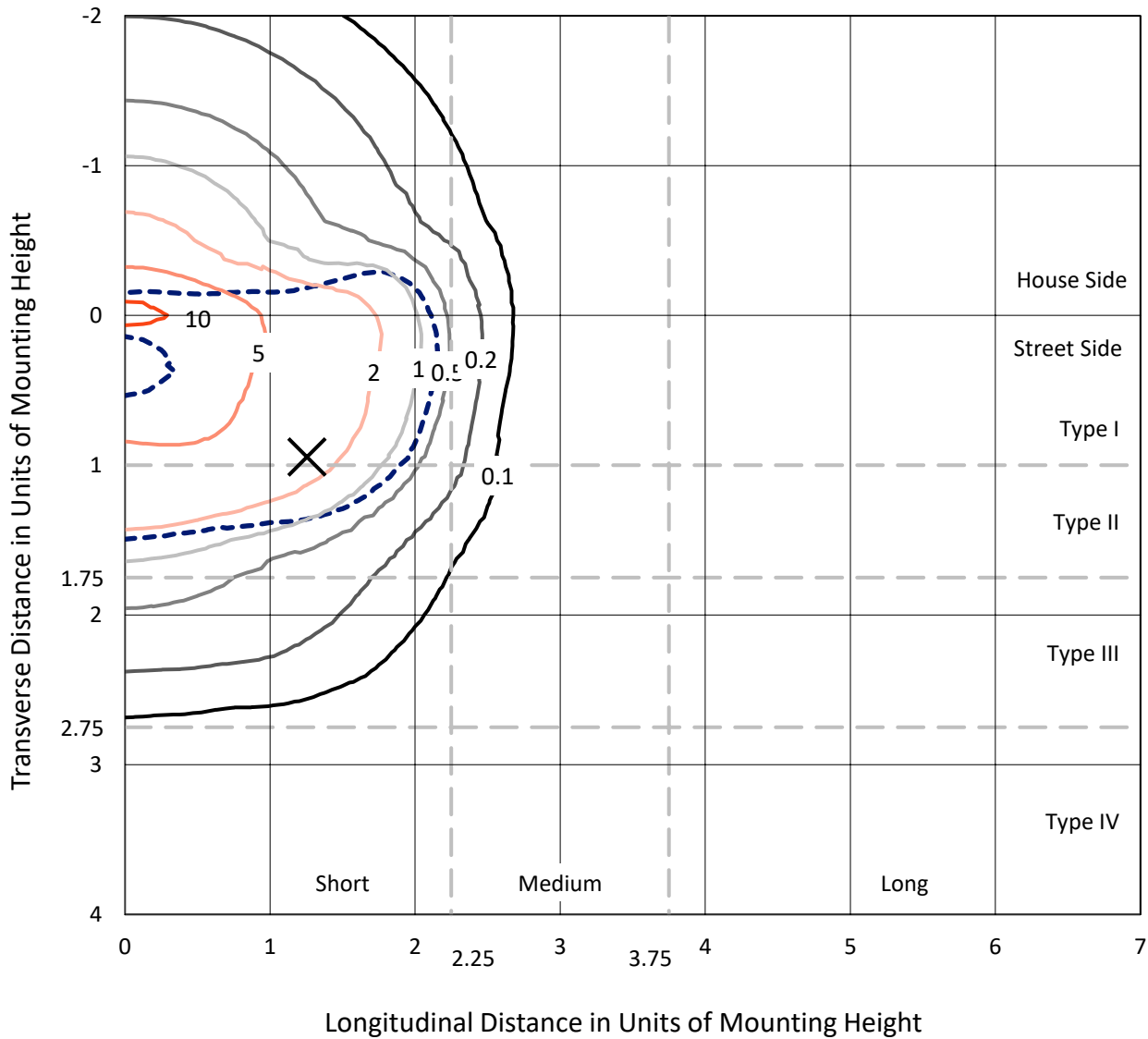
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

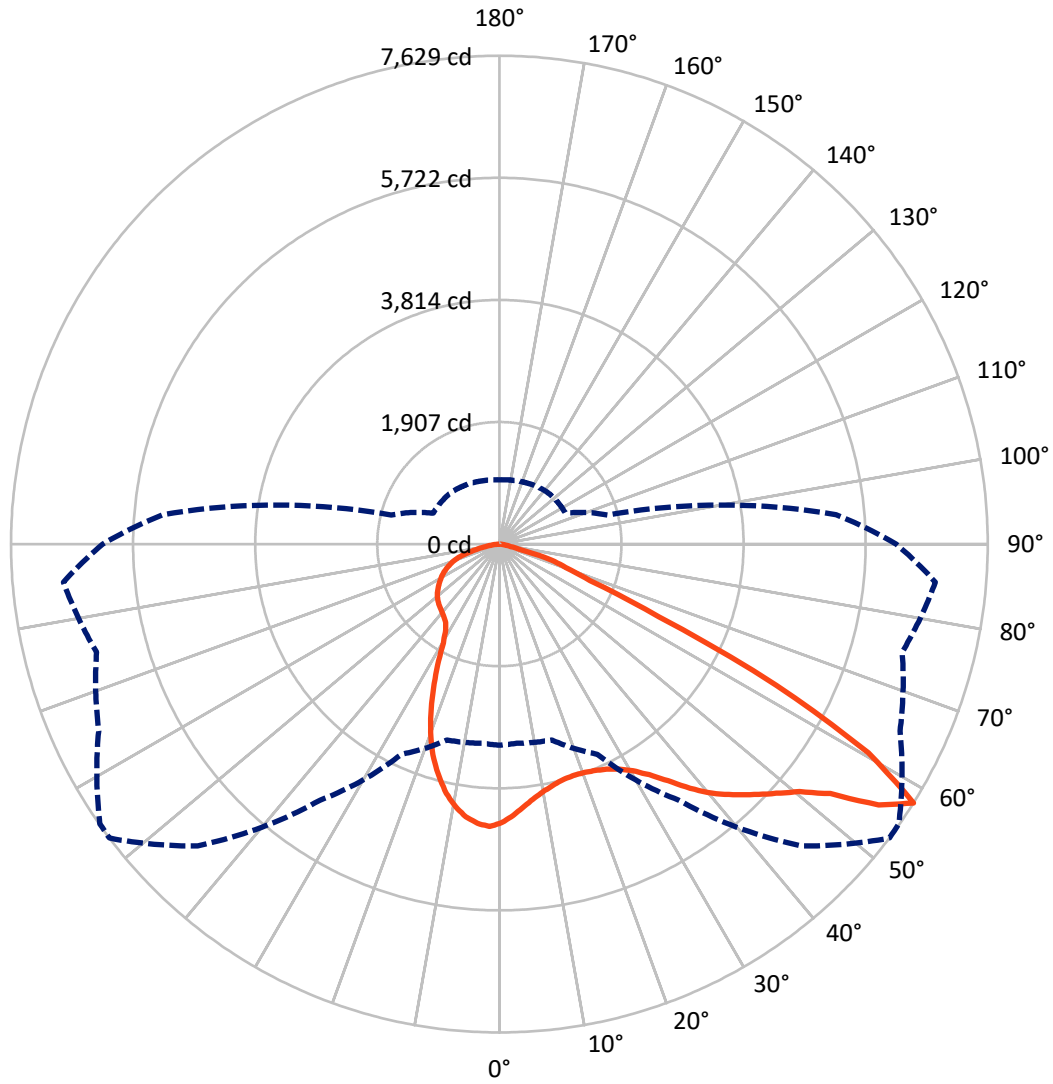
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4260.9	0.0	4260.9
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	9366.8	0.0	9366.8
	% Fixture	68.7	0.0	68.7
Total	Lumens	13627.7	0.0	13627.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.5	2.9
10°-20°	1032.4	7.6
20°-30°	1521.1	11.2
30°-40°	2129.2	15.6
40°-50°	2799.0	20.5
50°-60°	3281.8	24.1
60°-70°	1933.3	14.2
70°-80°	480.9	3.5
80°-90°	56.4	0.4
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°	13627.7	100.0
0°-180°	13627.7	100.0

Coefficient of Utilization



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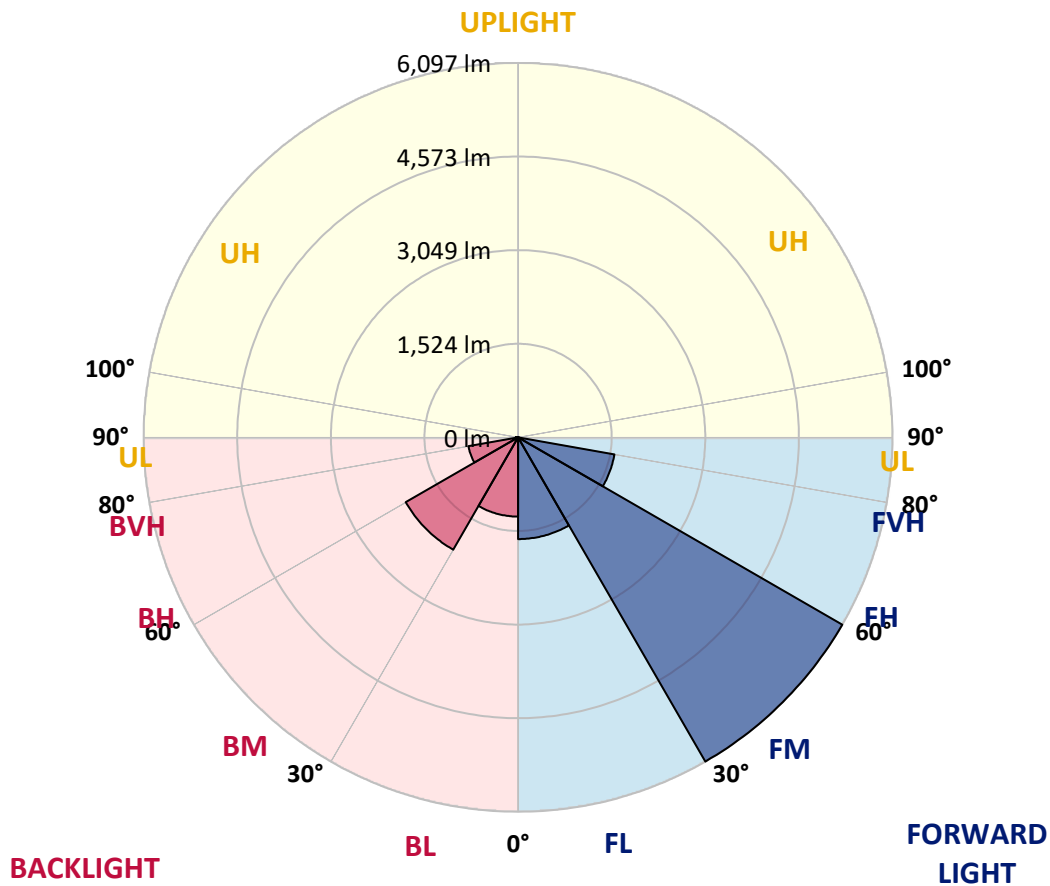
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1656.9	12.2			
FM (30°-60°)	6097.2	44.7			
FH (60°-80°)	1593.9	11.7			G1/1800
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	1290.2	9.5	B3/2500		
BM (30°-60°)	2112.8	15.5	B2/2500		
BH (60°-80°)	820.4	6.0	B2/1000		G2/1000
BVH (80°-90°)	37.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7
2.5°	4101.6	4113.1	4115.4	4151.0	4153.3	4204.9	4239.3	4232.4	4268.0	4311.5	4346.0
5°	3905.5	3906.7	3918.1	3960.6	3983.5	4051.2	4108.5	4108.5	4177.3	4266.8	4343.7
7.5°	3743.8	3742.6	3753.0	3800.0	3837.8	3919.3	3997.3	4006.4	4102.8	4233.6	4358.6
10°	3593.5	3601.6	3613.0	3670.4	3718.6	3819.5	3912.4	3927.3	4048.9	4210.6	4379.2
12.5°	3497.2	3498.3	3515.5	3579.8	3641.7	3749.5	3847.0	3865.4	4005.3	4188.8	4394.1
15°	3435.2	3436.4	3454.7	3525.9	3598.1	3707.1	3806.9	3827.5	3980.1	4185.4	4422.8
17.5°	3407.7	3406.6	3423.8	3494.9	3574.0	3687.6	3794.3	3819.5	3991.5	4211.8	4473.3
20°	3407.7	3408.9	3418.0	3482.3	3562.6	3683.0	3806.9	3837.8	4036.3	4271.4	4551.3
22.5°	3455.9	3460.5	3465.1	3508.7	3571.7	3689.9	3840.1	3881.4	4132.6	4371.2	4653.4
25°	3549.9	3551.1	3555.7	3591.2	3619.9	3709.4	3895.2	3957.1	4282.9	4516.9	4781.8
27.5°	3676.1	3692.2	3696.8	3719.7	3719.7	3757.6	3981.2	4070.7	4485.9	4726.8	4945.8
30°	3852.8	3858.5	3866.5	3891.7	3864.2	3848.2	4107.4	4222.1	4721.0	4980.2	5143.1
32.5°	4007.6	4020.2	4063.8	4105.1	4055.8	4005.3	4293.2	4428.5	4947.0	5244.1	5353.0
35°	4139.5	4170.5	4254.2	4346.0	4311.5	4261.1	4539.8	4680.9	5132.8	5433.3	5538.8
37.5°	4298.9	4323.0	4437.7	4586.8	4617.8	4593.7	4840.3	4941.2	5256.7	5481.5	5639.8
40°	4460.7	4497.4	4645.3	4851.8	4969.9	4987.1	5117.9	5185.6	5299.1	5387.4	5620.3
42.5°	4625.8	4688.9	4891.9	5132.8	5342.7	5381.7	5351.9	5380.5	5285.3	5257.8	5529.7
45°	4827.7	4902.2	5131.6	5439.0	5715.5	5776.3	5581.3	5554.9	5283.1	5208.5	5473.5
47.5°	5066.3	5140.8	5359.9	5717.8	6071.0	6115.8	5816.4	5768.2	5363.3	5284.2	5549.2
50°	5277.3	5328.9	5525.1	5925.4	6402.5	6428.9	6075.6	6017.1	5562.9	5494.1	5785.4
52.5°	5062.8	5057.1	5263.6	5756.8	6574.6	6892.3	6474.8	6418.6	5948.3	5842.8	6151.3
55°	4295.5	4230.1	4414.8	4900.0	6094.0	7304.1	7190.5	7078.1	6462.2	6193.8	6494.3
57.5°	3140.5	3122.1	3166.8	3622.2	4881.6	6666.3	7628.7	7618.3	6906.0	6514.9	6836.1
60°	2455.7	2428.2	2308.9	2321.5	3327.4	5207.3	6620.4	6924.4	7181.3	6707.6	7074.7
62.5°	2180.4	2159.8	2097.9	1926.9	1982.0	3491.4	4852.9	5131.6	6275.2	5924.2	6076.8
65°	1805.4	1799.6	1851.2	1844.4	1660.8	1928.1	2739.0	3020.0	3945.7	3995.0	3945.7
67.5°	1312.2	1301.8	1432.6	1690.7	1598.9	1455.5	1526.6	1624.1	2023.3	1816.8	1635.6
70°	853.4	838.5	914.2	1221.5	1431.4	1268.6	1100.0	1083.9	1112.6	691.6	747.8
72.5°	572.3	555.1	554.0	672.1	864.8	854.5	852.2	844.2	753.6	546.0	605.6
75°	318.9	305.1	301.7	290.2	309.7	315.4	336.1	347.5	376.2	414.1	458.8
77.5°	53.9	52.8	66.5	84.9	117.0	150.3	185.8	196.1	242.0	286.7	315.4
80°	29.8	31.0	40.1	49.3	65.4	89.5	114.7	121.6	149.1	173.2	196.1
82.5°	16.1	16.1	20.6	26.4	35.6	47.0	61.9	67.7	86.0	100.9	117.0
85°	5.7	5.7	8.0	10.3	14.9	19.5	24.1	27.5	37.9	51.6	58.5
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	4.6	4.6	5.7	10.3	14.9
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°	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7
2.5°	4374.6	4343.7	4386.1	4405.6	4412.5	4417.1	4387.2	4366.6	4359.7	4337.9	4325.3
5°	4390.7	4370.0	4410.2	4410.2	4381.5	4351.7	4290.9	4248.5	4218.6	4183.1	4177.3
7.5°	4418.2	4403.3	4425.1	4380.4	4308.1	4227.8	4122.3	4039.7	3973.2	3929.6	3930.7
10°	4454.9	4436.6	4419.4	4319.6	4187.7	4039.7	3878.0	3757.6	3647.4	3597.0	3569.4
12.5°	4479.0	4452.6	4380.4	4215.2	4021.4	3822.9	3594.7	3415.7	3256.3	3184.1	3178.3
15°	4508.8	4460.7	4316.1	4079.9	3810.3	3539.6	3246.0	2997.1	2781.5	2669.1	2663.3
17.5°	4547.8	4468.7	4239.3	3925.0	3587.8	3188.6	2819.3	2506.2	2276.8	2189.6	2204.5
20°	4602.9	4477.9	4152.1	3753.0	3311.4	2789.5	2329.5	2041.6	1953.3	1947.6	1936.1
22.5°	4664.8	4483.6	4055.8	3560.3	2976.4	2364.0	1924.7	1801.9	1800.8	1829.5	1836.3
25°	4734.8	4488.2	3946.8	3335.5	2614.0	1939.6	1702.1	1665.4	1694.1	1748.0	1754.9
27.5°	4824.3	4497.4	3814.9	3088.9	2228.6	1675.8	1579.4	1570.2	1604.6	1655.1	1652.8
30°	4956.2	4530.6	3675.0	2805.5	1832.9	1550.7	1504.9	1506.0	1519.8	1543.9	1547.3
32.5°	5090.4	4582.2	3538.5	2486.7	1605.8	1479.6	1459.0	1456.7	1456.7	1467.0	1469.3
35°	5217.7	4640.7	3390.5	2154.1	1495.7	1438.3	1424.6	1417.7	1414.2	1411.9	1408.5
37.5°	5288.8	4669.4	3246.0	1826.0	1437.2	1410.8	1397.0	1387.9	1375.2	1366.1	1363.8
40°	5257.8	4636.1	3078.5	1580.6	1401.6	1384.4	1368.4	1355.7	1338.5	1330.5	1325.9
42.5°	5154.6	4532.9	2896.2	1464.7	1373.0	1355.7	1336.2	1315.6	1304.1	1297.2	1296.1
45°	5045.6	4407.9	2675.9	1397.0	1345.4	1324.8	1301.8	1278.9	1266.3	1262.8	1261.7
47.5°	5042.2	4346.0	2441.9	1343.1	1312.2	1291.5	1262.8	1239.9	1226.1	1221.5	1217.0
50°	5193.6	4409.0	2178.1	1296.1	1277.8	1256.0	1223.8	1198.6	1181.4	1175.7	1174.5
52.5°	5507.9	4646.5	1941.9	1249.1	1231.9	1206.6	1180.3	1155.0	1134.4	1124.1	1122.9
55°	5847.4	4948.1	1795.0	1200.9	1178.0	1156.2	1132.1	1104.6	1081.6	1065.6	1063.3
57.5°	6198.4	5277.3	1750.3	1140.1	1122.9	1108.0	1079.3	1049.5	1023.1	1008.2	1004.8
60°	6487.4	5560.6	1834.0	1075.9	1066.7	1047.2	1020.8	992.1	973.8	962.3	960.0
62.5°	5431.0	4527.2	1480.8	1005.9	1005.9	985.3	955.4	934.8	922.2	914.2	911.9
65°	3446.7	2803.3	1010.5	935.9	934.8	907.3	882.0	868.3	862.5	849.9	847.6
67.5°	1501.4	1281.2	863.7	864.8	860.2	830.4	805.2	794.9	783.4	769.6	768.5
70°	778.8	793.7	773.1	785.7	777.7	742.1	718.0	702.0	677.9	664.1	665.3
72.5°	628.6	644.6	667.6	687.0	669.8	641.2	603.3	583.8	552.9	537.9	539.1
75°	479.4	496.6	518.4	539.1	525.3	489.8	465.7	446.2	410.6	393.4	396.9
77.5°	330.3	339.5	365.9	364.7	360.2	349.8	314.3	291.3	254.6	234.0	236.3
80°	205.3	211.0	223.7	229.4	227.1	213.3	184.7	167.5	145.7	133.1	134.2
82.5°	123.9	127.3	138.8	139.9	138.8	128.5	106.7	94.1	80.3	73.4	73.4
85°	63.1	65.4	72.3	72.3	65.4	55.1	49.3	43.6	35.6	32.1	32.1
87.5°	17.2	17.2	21.8	18.4	14.9	13.8	6.9	5.7	2.3	1.1	1.1
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)