

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: P633799

Luminaire Tested: GWS-SA2F-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13585.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

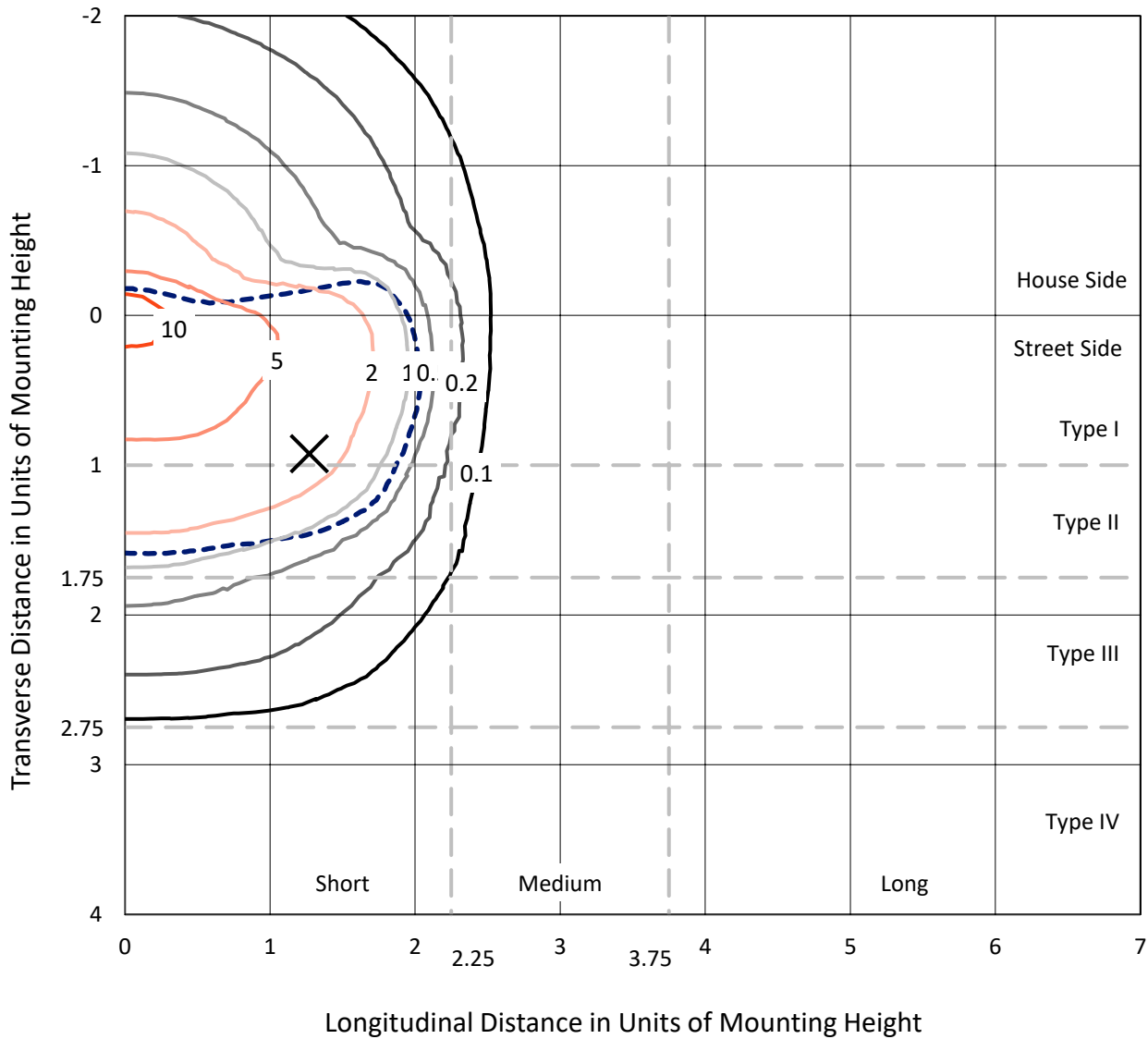
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

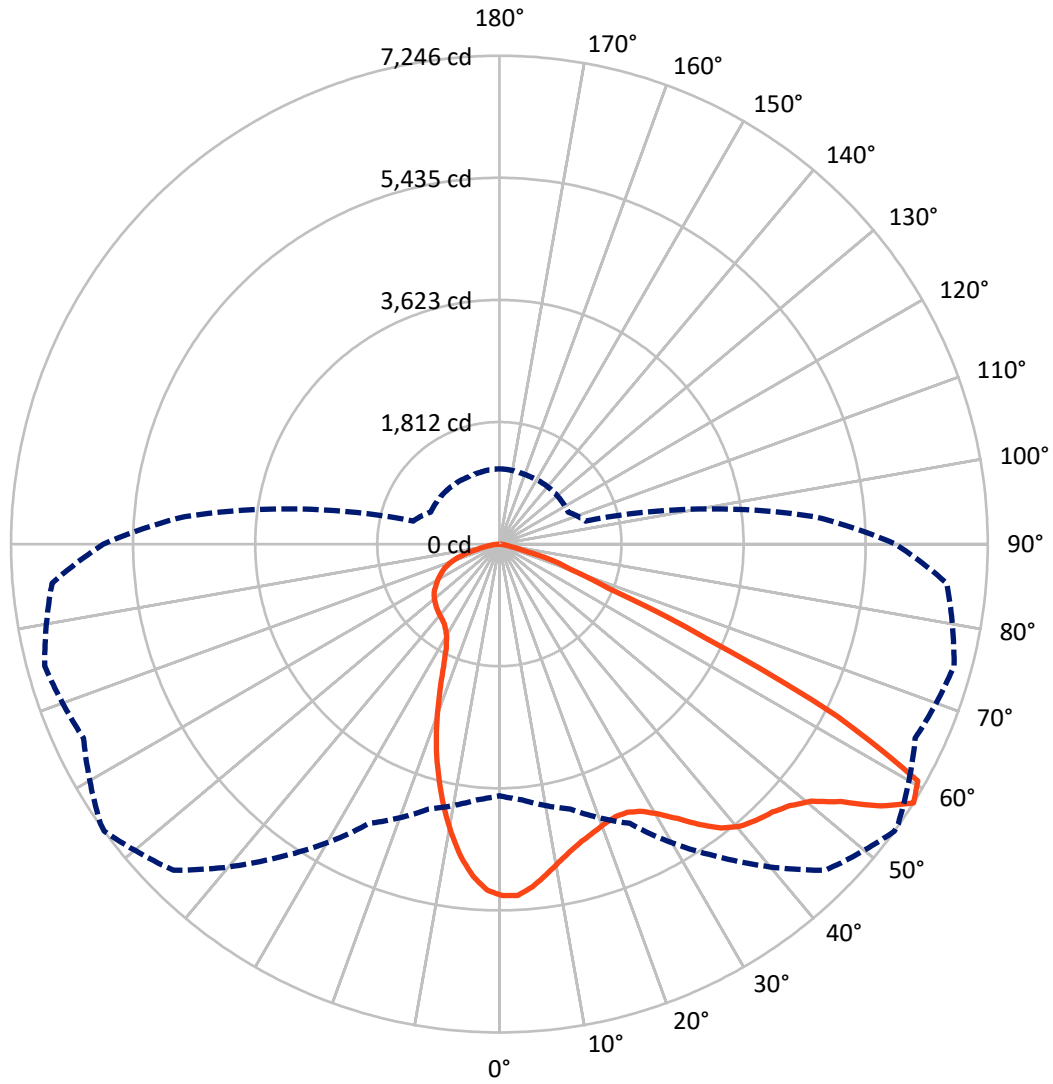
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3949.5	0.0	3949.5
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	9636.1	0.0	9636.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	13585.6	0.0	13585.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.5	3.4
10°-20°	1094.0	8.1
20°-30°	1513.9	11.1
30°-40°	2103.5	15.5
40°-50°	2778.1	20.4
50°-60°	3301.4	24.3
60°-70°	1829.0	13.5
70°-80°	455.5	3.4
80°-90°	51.8	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°	13585.6	100.0
0°-180°	13585.6	100.0

Coefficient of Utilization



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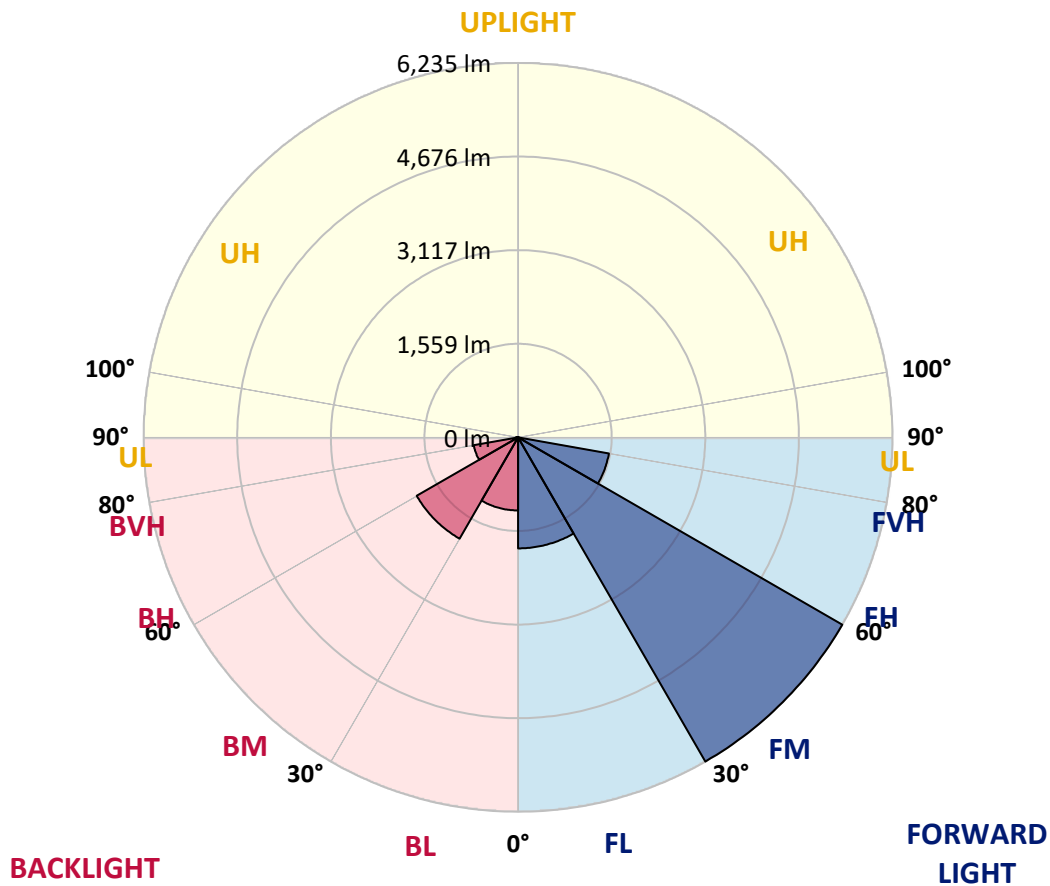
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.2	13.6			
FM (30°-60°)	6234.6	45.9			
FH (60°-80°)	1536.0	11.3			G1/1800
FVH (80°-90°)	16.2	0.1			G1/100
BL (0°-30°)	1217.1	9.0	B3/2500		
BM (30°-60°)	1948.4	14.3	B2/2500		
BH (60°-80°)	748.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	35.6	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°	54°	55°	65°	75°	85°
0°	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8
2.5°	5118.1	5128.6	5135.6	5160.0	5180.9	5199.5	5219.3	5219.3	5218.1	5214.7	5207.7
5°	4915.8	4927.4	4943.7	4977.4	5022.8	5055.3	5108.8	5113.5	5136.7	5146.0	5141.4
7.5°	4680.9	4684.4	4705.3	4749.5	4821.6	4879.7	4956.5	4965.8	5021.6	5054.2	5048.4
10°	4423.9	4412.2	4449.4	4514.6	4608.8	4706.4	4805.3	4813.4	4903.0	4964.6	4960.0
12.5°	4188.9	4190.1	4227.3	4306.4	4423.9	4544.8	4677.4	4696.0	4806.5	4885.5	4877.4
15°	3992.4	3997.1	4042.4	4132.0	4265.7	4409.9	4575.0	4592.5	4732.0	4836.7	4813.4
17.5°	3835.4	3840.1	3879.6	3981.9	4125.0	4299.4	4500.6	4518.1	4691.3	4815.8	4768.1
20°	3727.2	3724.9	3763.3	3861.0	4008.7	4198.2	4435.5	4461.1	4678.5	4823.9	4737.8
22.5°	3683.1	3681.9	3709.8	3790.0	3928.4	4120.3	4395.9	4430.8	4692.5	4860.0	4719.2
25°	3705.2	3700.5	3724.9	3784.2	3894.7	4090.1	4407.6	4444.8	4751.8	4934.4	4722.7
27.5°	3773.8	3768.0	3788.9	3842.4	3926.1	4121.5	4489.0	4532.0	4877.4	5070.5	4769.2
30°	3878.4	3874.9	3895.9	3947.0	4020.3	4226.2	4644.8	4693.7	5071.6	5282.1	4870.4
32.5°	4000.5	3994.7	4031.9	4091.2	4176.1	4416.9	4854.1	4918.1	5301.9	5554.2	5040.2
35°	4137.8	4133.1	4184.3	4270.3	4392.5	4682.0	5107.7	5177.4	5536.8	5862.4	5265.8
37.5°	4271.5	4271.5	4370.4	4498.3	4651.8	4970.4	5346.1	5390.3	5699.6	6135.7	5507.7
40°	4390.1	4397.1	4546.0	4737.8	4933.2	5230.9	5503.1	5540.3	5771.7	6324.1	5718.2
42.5°	4521.5	4527.4	4700.6	4951.8	5184.4	5441.4	5598.4	5617.0	5785.7	6418.3	5867.1
45°	4626.2	4634.3	4849.5	5118.1	5403.1	5599.6	5674.0	5690.3	5805.4	6469.5	5975.2
47.5°	4680.9	4692.5	4939.0	5251.9	5550.7	5741.5	5798.5	5805.4	5886.8	6559.0	6105.5
50°	4671.6	4694.8	4972.8	5318.2	5660.1	5884.5	5998.5	6010.1	6053.1	6690.4	6257.8
52.5°	4754.1	4764.6	5044.9	5397.2	5815.9	6148.5	6346.2	6362.5	6342.7	6789.3	6348.5
55°	4616.9	4666.9	4955.3	5385.6	6053.1	6556.7	6861.4	6853.3	6605.5	6899.8	6499.7
57.5°	3734.2	3807.5	4071.5	4571.5	5662.4	6842.8	7246.3	7226.6	6809.1	6984.7	6663.7
60°	2585.2	2596.9	2835.3	3190.0	4370.4	6045.0	7133.5	7176.6	6846.3	6877.7	6360.2
62.5°	2067.7	2064.2	2086.3	2095.6	2779.4	4249.4	5631.0	5788.0	5688.0	5358.9	4507.6
65°	1765.4	1778.1	1843.3	1809.5	1814.2	2393.3	3364.4	3386.5	3316.7	3198.1	2384.0
67.5°	1381.6	1403.7	1518.8	1650.2	1608.4	1540.9	1745.6	1735.1	1367.6	1058.3	874.5
70°	865.2	879.2	1002.5	1295.5	1400.2	1265.3	1122.2	1117.6	732.7	602.4	660.6
72.5°	504.7	507.0	541.9	722.2	929.2	865.2	825.7	795.5	471.0	480.3	526.8
75°	277.9	277.9	276.8	311.7	366.3	324.5	314.0	305.9	315.2	357.0	391.9
77.5°	58.1	59.3	62.8	82.6	107.0	130.3	164.0	165.1	205.8	238.4	266.3
80°	26.7	27.9	34.9	44.2	57.0	75.6	100.0	101.2	124.4	150.0	168.6
82.5°	14.0	15.1	18.6	23.3	30.2	39.5	55.8	55.8	74.4	88.4	100.0
85°	4.7	4.7	7.0	9.3	12.8	16.3	22.1	22.1	32.6	43.0	50.0
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	4.7	5.8	7.0	11.6
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°	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8	5215.8
2.5°	5192.6	5156.5	5157.7	5164.7	5142.6	5108.8	5086.7	5058.8	5041.4	5037.9	5050.7
5°	5118.1	5076.3	5047.2	5017.0	4954.2	4879.7	4821.6	4773.9	4742.5	4730.9	4716.9
7.5°	5015.8	4961.1	4887.9	4803.0	4689.0	4556.4	4463.4	4376.2	4315.7	4298.3	4290.1
10°	4913.5	4834.4	4704.1	4546.0	4356.4	4177.3	4008.7	3879.6	3777.3	3719.1	3737.7
12.5°	4807.6	4709.9	4506.4	4263.4	3999.4	3729.6	3508.6	3294.6	3129.5	3046.9	3022.5
15°	4714.6	4582.0	4298.3	3969.1	3617.9	3278.3	2958.5	2637.6	2428.2	2314.3	2282.9
17.5°	4635.5	4463.4	4078.5	3669.1	3249.3	2765.5	2372.4	2074.7	1931.7	1868.9	1864.2
20°	4557.6	4347.1	3861.0	3345.8	2823.6	2281.7	1930.5	1790.9	1739.8	1717.7	1716.5
22.5°	4487.8	4225.0	3631.9	3022.5	2400.3	1917.7	1724.7	1664.2	1650.2	1650.2	1647.9
25°	4428.5	4102.9	3397.0	2679.4	2017.7	1707.2	1617.7	1592.1	1597.9	1608.4	1609.5
27.5°	4404.1	4007.5	3170.2	2327.1	1753.7	1585.1	1544.4	1540.9	1557.2	1573.5	1575.8
30°	4429.7	3942.4	2937.6	1989.8	1595.6	1510.7	1492.1	1499.0	1518.8	1535.1	1535.1
32.5°	4508.7	3909.8	2700.4	1743.3	1503.7	1458.3	1452.5	1459.5	1474.6	1483.9	1485.1
35°	4642.5	3922.6	2455.0	1577.0	1444.4	1420.0	1418.8	1423.4	1429.3	1435.1	1436.2
37.5°	4811.1	3979.6	2192.2	1480.4	1406.0	1392.0	1389.7	1388.6	1389.7	1389.7	1390.9
40°	4976.3	4065.7	1957.2	1423.4	1379.3	1367.6	1361.8	1353.7	1352.5	1350.2	1349.0
42.5°	5098.4	4132.0	1770.0	1382.7	1354.8	1340.9	1333.9	1321.1	1319.9	1318.8	1317.6
45°	5190.2	4187.8	1614.2	1343.2	1329.2	1316.5	1301.3	1289.7	1292.0	1294.4	1294.4
47.5°	5293.7	4236.6	1500.2	1306.0	1297.8	1285.1	1266.5	1258.3	1266.5	1274.6	1274.6
50°	5419.3	4305.2	1407.2	1268.8	1265.3	1250.2	1233.9	1230.4	1239.7	1251.3	1251.3
52.5°	5511.2	4364.5	1340.9	1231.6	1231.6	1211.8	1197.8	1196.7	1207.1	1218.8	1219.9
55°	5683.3	4502.9	1317.6	1188.5	1183.9	1168.8	1158.3	1150.2	1162.9	1173.4	1173.4
57.5°	5877.5	4686.7	1323.4	1126.9	1121.1	1116.4	1108.3	1099.0	1102.5	1114.1	1115.3
60°	5465.9	4330.8	1259.5	1065.3	1061.8	1059.4	1049.0	1032.7	1037.3	1046.7	1047.8
62.5°	3818.0	2878.3	1018.7	988.5	1000.1	999.0	985.0	966.4	967.6	980.4	980.4
65°	1981.7	1557.2	894.3	918.7	936.2	929.2	905.9	889.7	887.3	903.6	900.1
67.5°	854.8	850.1	814.1	845.5	864.1	849.0	824.5	797.8	800.1	805.9	801.3
70°	688.5	709.4	724.5	758.2	773.4	745.4	718.7	703.6	690.8	689.6	681.5
72.5°	550.1	579.1	612.9	647.8	652.4	624.5	590.8	576.8	557.1	555.9	547.7
75°	414.0	438.4	465.2	493.1	493.1	466.3	444.2	437.3	414.0	407.0	400.1
77.5°	282.6	297.7	318.6	325.6	332.6	322.1	300.0	288.4	261.7	254.7	245.4
80°	177.9	188.4	201.2	205.8	212.8	200.0	182.6	169.8	151.2	145.4	140.7
82.5°	107.0	114.0	122.1	124.4	130.3	120.9	104.7	95.4	84.9	80.2	76.8
85°	54.7	58.1	62.8	64.0	62.8	53.5	47.7	43.0	36.1	34.9	32.6
87.5°	14.0	16.3	17.4	16.3	15.1	11.6	8.1	5.8	2.3	2.3	1.2
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)