

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: P636824

Luminaire Tested: GWS-SA4B-750-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636824
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-SA4B-750-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12399.3 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

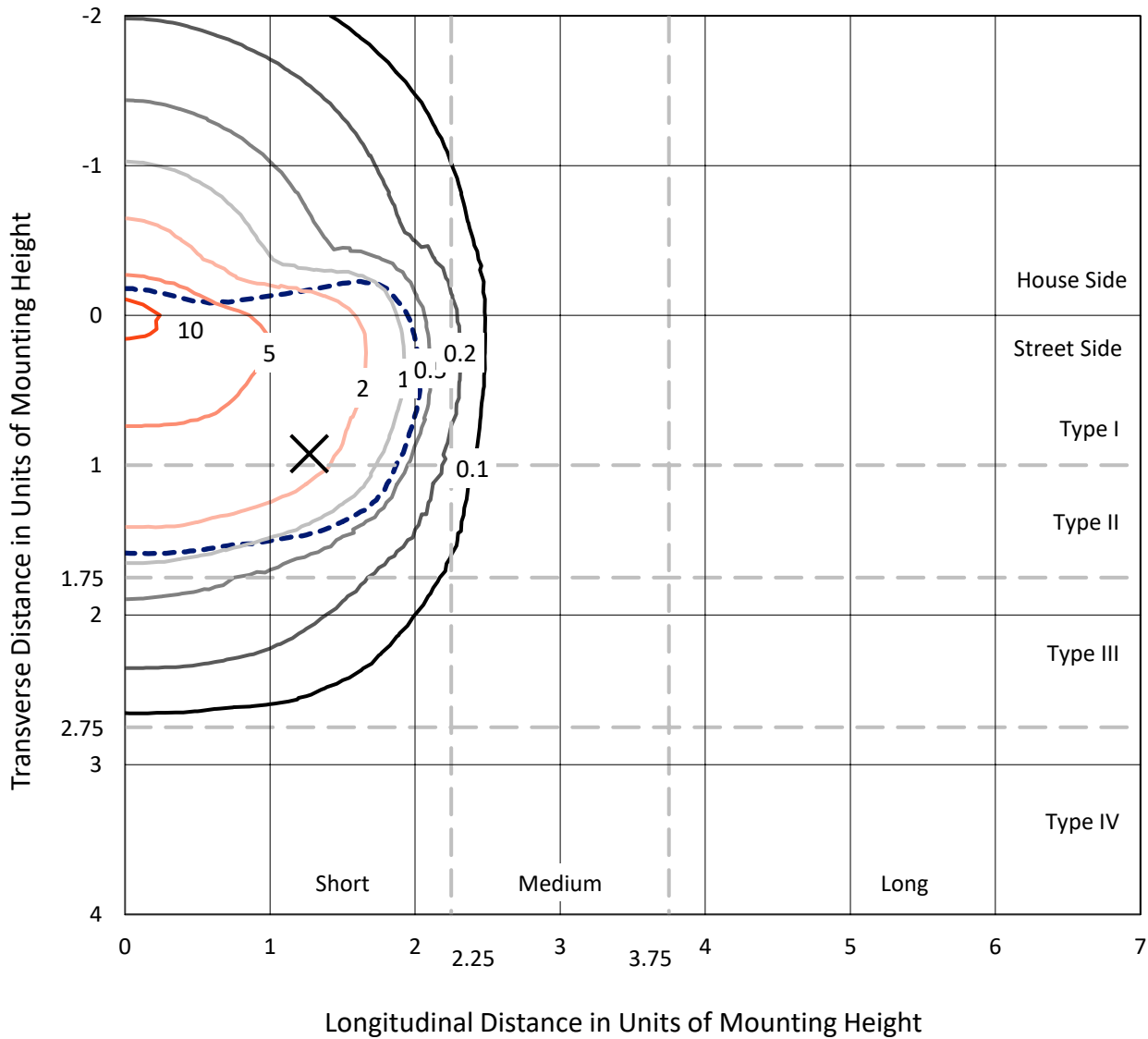
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

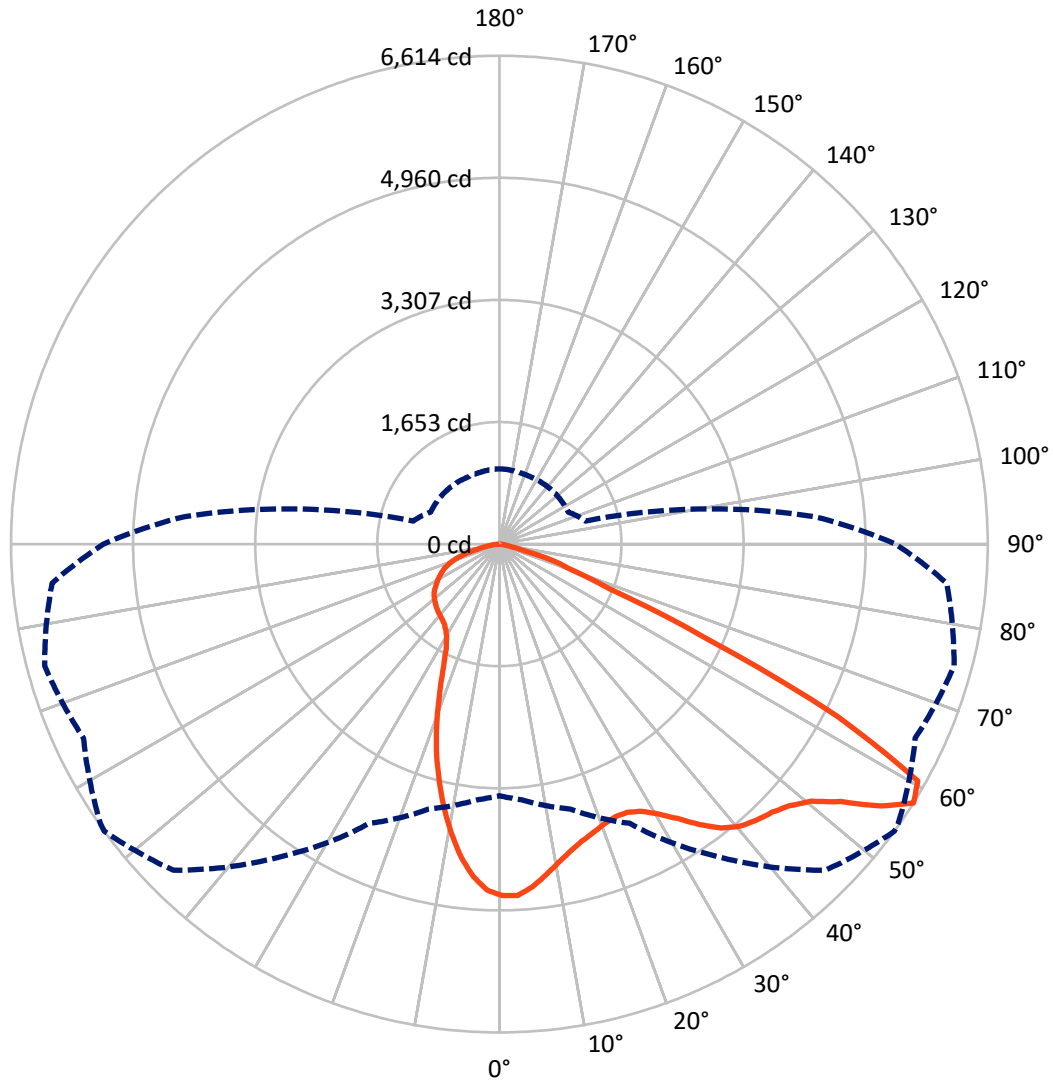
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 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	3604.6	0.0	3604.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8794.7	0.0	8794.7
	% Fixture	70.9	0.0	70.9
Total	Lumens	12399.3	0.0	12399.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.4	3.4
10°-20°	998.4	8.1
20°-30°	1381.7	11.1
30°-40°	1919.8	15.5
40°-50°	2535.5	20.4
50°-60°	3013.1	24.3
60°-70°	1669.3	13.5
70°-80°	415.7	3.4
80°-90°	47.3	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°	12399.3	100.0
0°-180°	12399.3	100.0

Coefficient of Utilization



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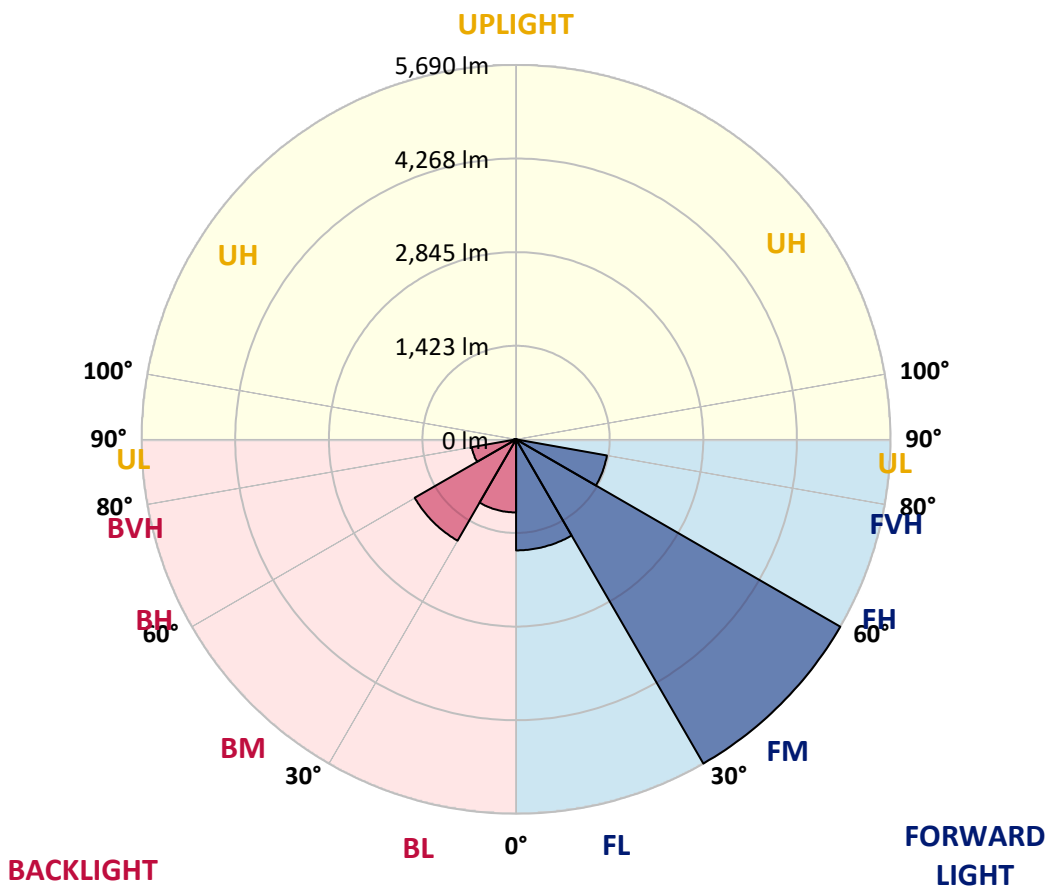
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.7	13.6			
FM (30°-60°)	5690.2	45.9			
FH (60°-80°)	1401.9	11.3			G1/1800
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	1110.8	9.0	B3/2500		
BM (30°-60°)	1778.2	14.3	B2/2500		
BH (60°-80°)	683.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	32.5	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°	54°	55°	65°	75°	85°
0°	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4
2.5°	4671.2	4680.8	4687.1	4709.4	4728.5	4745.5	4763.6	4763.6	4762.5	4759.3	4752.9
5°	4486.5	4497.1	4512.0	4542.8	4584.2	4613.9	4662.7	4667.0	4688.2	4696.7	4692.4
7.5°	4272.1	4275.3	4294.4	4334.8	4400.6	4453.6	4523.7	4532.2	4583.1	4612.8	4607.5
10°	4037.6	4026.9	4060.9	4120.3	4206.3	4295.5	4385.7	4393.1	4474.9	4531.1	4526.9
12.5°	3823.2	3824.2	3858.2	3930.4	4037.6	4147.9	4268.9	4285.9	4386.8	4458.9	4451.5
15°	3643.8	3648.0	3689.4	3771.1	3893.2	4024.8	4175.5	4191.5	4318.8	4414.4	4393.1
17.5°	3500.5	3504.7	3540.8	3634.2	3764.8	3924.0	4107.6	4123.5	4281.7	4395.3	4351.7
20°	3401.8	3399.7	3434.7	3523.8	3658.6	3831.6	4048.2	4071.5	4270.0	4402.7	4324.1
22.5°	3361.4	3360.4	3385.9	3459.1	3585.4	3760.5	4012.1	4043.9	4282.7	4435.6	4307.2
25°	3381.6	3377.4	3399.7	3453.8	3554.6	3732.9	4022.7	4056.7	4336.9	4503.5	4310.3
27.5°	3444.2	3438.9	3458.0	3506.9	3583.3	3761.6	4097.0	4136.3	4451.5	4627.7	4352.8
30°	3539.8	3536.6	3555.7	3602.4	3669.3	3857.1	4239.2	4283.8	4628.8	4820.9	4445.1
32.5°	3651.2	3645.9	3679.9	3734.0	3811.5	4031.2	4430.3	4488.7	4838.9	5069.2	4600.1
35°	3776.5	3772.2	3818.9	3897.5	4008.9	4273.2	4661.7	4725.3	5053.3	5350.5	4806.0
37.5°	3898.5	3898.5	3988.7	4105.5	4245.6	4536.4	4879.2	4919.6	5201.9	5599.9	5026.8
40°	4006.8	4013.1	4149.0	4324.1	4502.5	4774.2	5022.5	5056.5	5267.7	5771.9	5218.9
42.5°	4126.7	4132.0	4290.2	4519.4	4731.7	4966.3	5109.6	5126.6	5280.5	5857.9	5354.8
45°	4222.2	4229.7	4426.0	4671.2	4931.3	5110.6	5178.6	5193.4	5298.5	5904.6	5453.5
47.5°	4272.1	4282.7	4507.8	4793.3	5066.1	5240.1	5292.1	5298.5	5372.8	5986.3	5572.3
50°	4263.6	4284.9	4538.5	4853.8	5165.8	5370.7	5474.7	5485.3	5524.6	6106.2	5711.4
52.5°	4339.0	4348.6	4604.3	4926.0	5308.1	5611.6	5792.1	5806.9	5788.9	6196.4	5794.2
55°	4213.8	4259.4	4522.6	4915.3	5524.6	5984.2	6262.3	6254.8	6028.7	6297.3	5932.2
57.5°	3408.2	3475.0	3716.0	4172.4	5167.9	6245.3	6613.6	6595.5	6214.5	6374.8	6081.8
60°	2359.5	2370.1	2587.7	2911.4	3988.7	5517.2	6510.6	6549.9	6248.5	6277.1	5804.8
62.5°	1887.2	1884.0	1904.1	1912.6	2536.7	3878.4	5139.3	5282.6	5191.3	4890.9	4114.0
65°	1611.2	1622.9	1682.3	1651.5	1655.8	2184.4	3070.6	3090.8	3027.1	2918.8	2175.9
67.5°	1260.9	1281.1	1386.2	1506.1	1467.9	1406.4	1593.2	1583.6	1248.2	965.9	798.2
70°	789.7	802.4	914.9	1182.4	1277.9	1154.8	1024.2	1020.0	668.7	549.8	602.9
72.5°	460.6	462.8	494.6	659.1	848.1	789.7	753.6	726.0	429.9	438.4	480.8
75°	253.7	253.7	252.6	284.5	334.3	296.1	286.6	279.1	287.6	325.8	357.7
77.5°	53.1	54.1	57.3	75.4	97.6	118.9	149.7	150.7	187.9	217.6	243.1
80°	24.4	25.5	31.8	40.3	52.0	69.0	91.3	92.3	113.6	136.9	153.9
82.5°	12.7	13.8	17.0	21.2	27.6	36.1	50.9	50.9	67.9	80.7	91.3
85°	4.2	4.2	6.4	8.5	11.7	14.9	20.2	20.2	29.7	39.3	45.6
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	4.2	4.2	5.3	6.4	10.6
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°	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4
2.5°	4739.1	4706.2	4707.3	4713.7	4693.5	4662.7	4642.6	4617.1	4601.2	4598.0	4609.7
5°	4671.2	4633.0	4606.5	4578.9	4521.6	4453.6	4400.6	4357.0	4328.4	4317.8	4305.0
7.5°	4577.8	4527.9	4461.1	4383.6	4279.6	4158.6	4073.6	3994.0	3938.9	3922.9	3915.5
10°	4484.4	4412.2	4293.4	4149.0	3976.0	3812.5	3658.6	3540.8	3447.4	3394.4	3411.3
12.5°	4387.8	4298.7	4112.9	3891.1	3650.1	3403.9	3202.2	3006.9	2856.2	2780.9	2758.6
15°	4302.9	4181.9	3922.9	3622.6	3302.0	2992.1	2700.2	2407.3	2216.2	2112.2	2083.5
17.5°	4230.7	4073.6	3722.3	3348.7	2965.5	2524.0	2165.3	1893.5	1763.0	1705.7	1701.4
20°	4159.6	3967.5	3523.8	3053.6	2577.1	2082.5	1761.9	1634.6	1587.9	1567.7	1566.6
22.5°	4095.9	3856.1	3314.7	2758.6	2190.7	1750.2	1574.1	1518.9	1506.1	1506.1	1504.0
25°	4041.8	3744.6	3100.3	2445.5	1841.5	1558.1	1476.4	1453.1	1458.4	1467.9	1469.0
27.5°	4019.5	3657.6	2893.4	2123.9	1600.6	1446.7	1409.5	1406.4	1421.2	1436.1	1438.2
30°	4042.9	3598.1	2681.1	1816.1	1456.2	1378.8	1361.8	1368.1	1386.2	1401.0	1401.0
32.5°	4115.0	3568.4	2464.6	1591.0	1372.4	1331.0	1325.7	1332.1	1345.9	1354.3	1355.4
35°	4237.1	3580.1	2240.6	1439.3	1318.3	1296.0	1294.9	1299.2	1304.5	1309.8	1310.8
37.5°	4391.0	3632.1	2000.7	1351.2	1283.2	1270.5	1268.4	1267.3	1268.4	1268.4	1269.4
40°	4541.7	3710.6	1786.3	1299.2	1258.8	1248.2	1242.9	1235.5	1234.4	1232.3	1231.2
42.5°	4653.2	3771.1	1615.4	1262.0	1236.5	1223.8	1217.4	1205.7	1204.7	1203.6	1202.6
45°	4737.0	3822.1	1473.2	1225.9	1213.2	1201.5	1187.7	1177.1	1179.2	1181.3	1181.3
47.5°	4831.5	3866.7	1369.2	1192.0	1184.5	1172.8	1155.9	1148.4	1155.9	1163.3	1163.3
50°	4946.1	3929.3	1284.3	1158.0	1154.8	1141.0	1126.1	1123.0	1131.5	1142.1	1142.1
52.5°	5030.0	3983.4	1223.8	1124.0	1124.0	1106.0	1093.2	1092.2	1101.7	1112.3	1113.4
55°	5187.1	4109.7	1202.6	1084.7	1080.5	1066.7	1057.2	1049.7	1061.4	1071.0	1071.0
57.5°	5364.3	4277.4	1207.9	1028.5	1023.2	1018.9	1011.5	1003.0	1006.2	1016.8	1017.9
60°	4988.6	3952.6	1149.5	972.2	969.1	966.9	957.4	942.5	946.8	955.3	956.3
62.5°	3484.6	2627.0	929.8	902.2	912.8	911.7	899.0	882.0	883.1	894.8	894.8
65°	1808.6	1421.2	816.2	838.5	854.4	848.1	826.8	812.0	809.8	824.7	821.5
67.5°	780.1	775.9	743.0	771.6	788.6	774.8	752.5	728.1	730.2	735.5	731.3
70°	628.3	647.5	661.3	692.0	705.8	680.4	655.9	642.1	630.5	629.4	622.0
72.5°	502.0	528.6	559.4	591.2	595.4	570.0	539.2	526.5	508.4	507.3	499.9
75°	377.9	400.1	424.6	450.0	450.0	425.6	405.5	399.1	377.9	371.5	365.1
77.5°	257.9	271.7	290.8	297.2	303.6	294.0	273.8	263.2	238.8	232.4	224.0
80°	162.4	171.9	183.6	187.9	194.2	182.6	166.6	155.0	138.0	132.7	128.4
82.5°	97.6	104.0	111.4	113.6	118.9	110.4	95.5	87.0	77.5	73.2	70.1
85°	49.9	53.1	57.3	58.4	57.3	48.8	43.5	39.3	32.9	31.8	29.7
87.5°	12.7	14.9	15.9	14.9	13.8	10.6	7.4	5.3	2.1	2.1	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)