

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: P636769

Luminaire Tested: GWS-SA4B-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636769  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

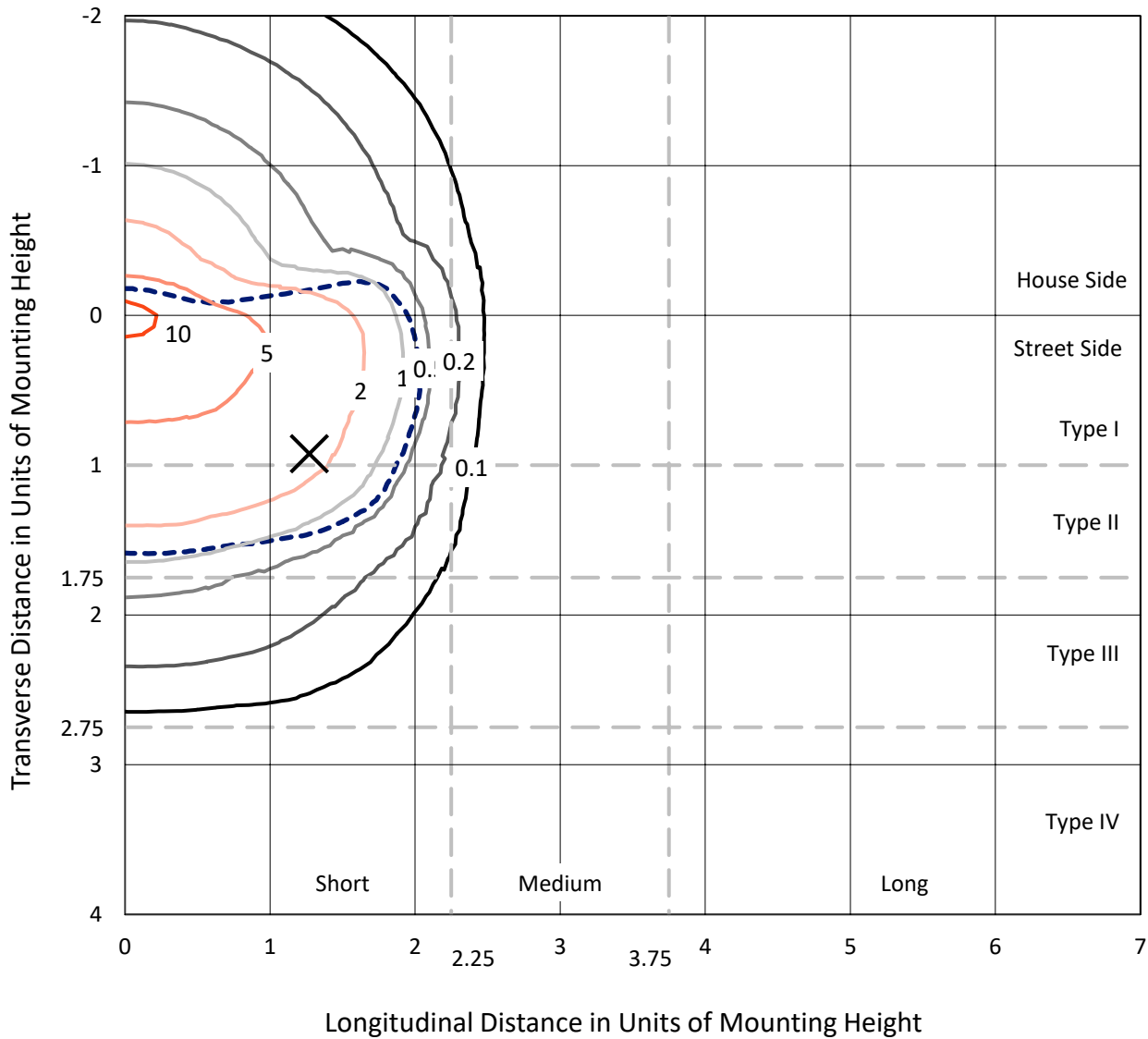
Lumens per Lamp: N/A  
Luminaire Lumens: 12121.5 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

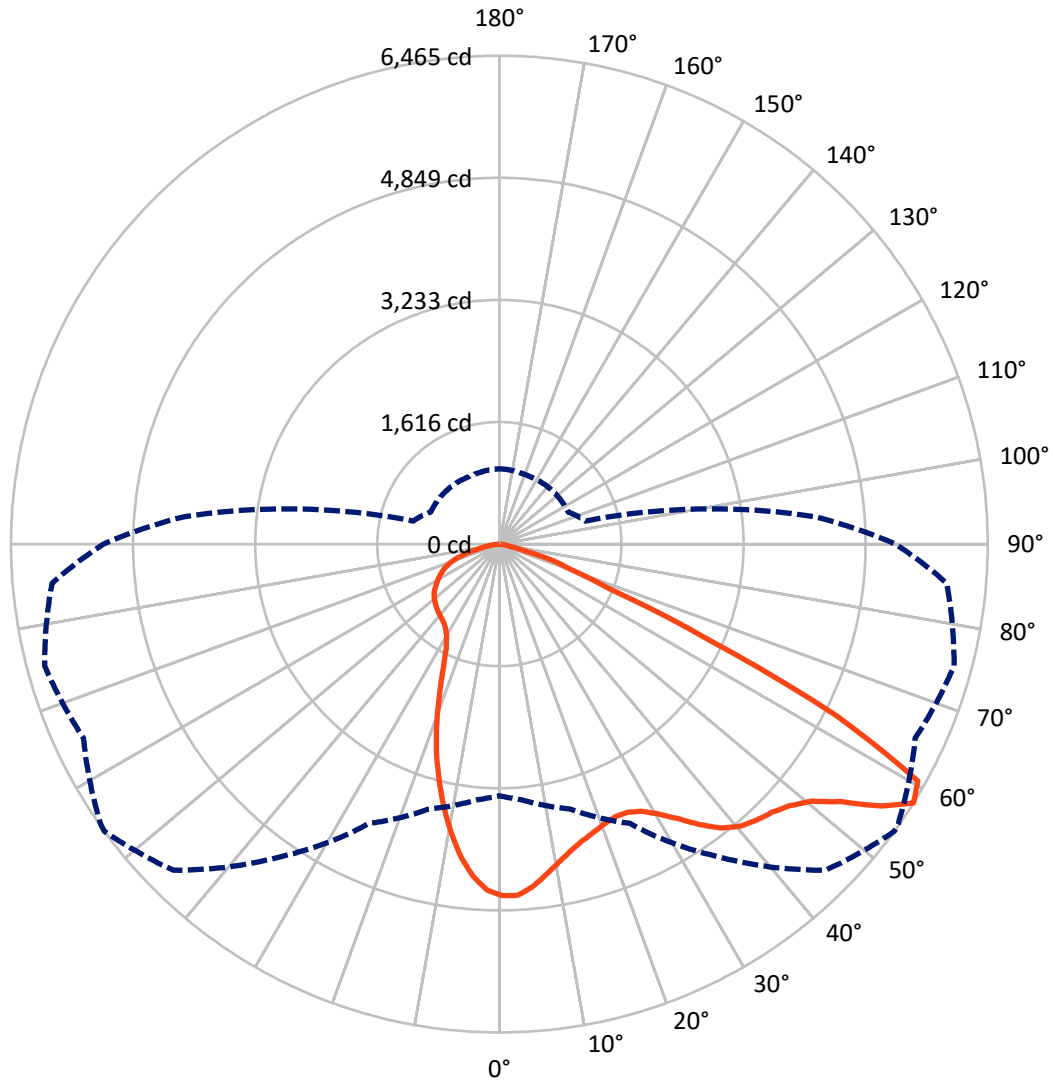
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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
<b>House Side</b>	Lumens	3523.9	0.0	3523.9
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	8597.6	0.0	8597.6
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	12121.5	0.0	12121.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.1	3.4
10°-20°	976.1	8.1
20°-30°	1350.7	11.1
30°-40°	1876.8	15.5
40°-50°	2478.7	20.4
50°-60°	2945.6	24.3
60°-70°	1631.9	13.5
70°-80°	406.4	3.4
80°-90°	46.2	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°	12121.5	100.0
0°-180°	12121.5	100.0

**Coefficient of Utilization**



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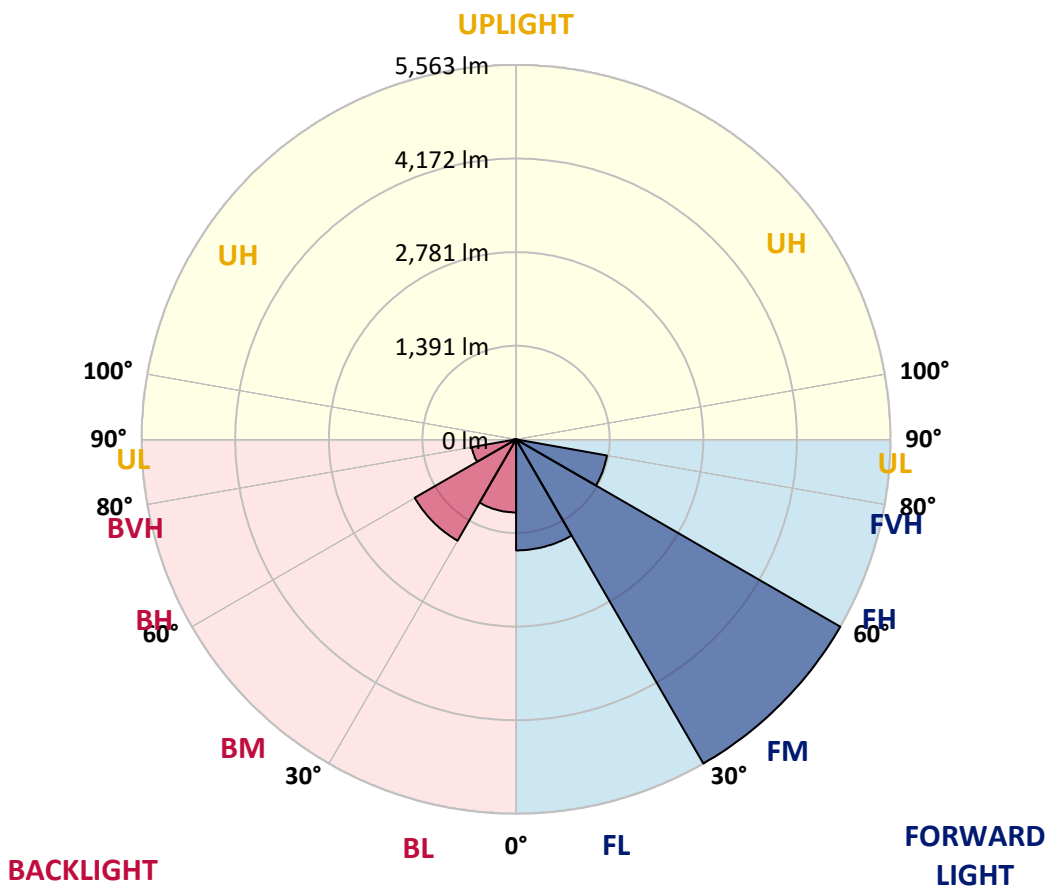
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.9	13.6			
FM (30°-60°)	5562.8	45.9			
FH (60°-80°)	1370.5	11.3			G1/1800
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	1085.9	9.0	B3/2500		
BM (30°-60°)	1738.4	14.3	B2/2500		
BH (60°-80°)	667.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.8	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°	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7
2.5°	4566.6	4575.9	4582.1	4603.9	4622.6	4639.2	4656.8	4656.8	4655.8	4652.7	4646.5
5°	4386.0	4396.4	4410.9	4441.0	4481.5	4510.5	4558.3	4562.4	4583.2	4591.5	4587.3
7.5°	4176.4	4179.5	4198.2	4237.6	4302.0	4353.8	4422.3	4430.6	4480.4	4509.5	4504.3
10°	3947.1	3936.7	3969.9	4028.0	4112.1	4199.2	4287.4	4294.7	4374.6	4429.6	4425.4
12.5°	3737.5	3738.5	3771.7	3842.3	3947.1	4055.0	4173.3	4189.9	4288.5	4359.0	4351.8
15°	3562.1	3566.3	3606.8	3686.7	3806.0	3934.6	4082.0	4097.6	4222.1	4315.5	4294.7
17.5°	3422.1	3426.2	3461.5	3552.8	3680.4	3836.1	4015.6	4031.1	4185.8	4296.8	4254.2
20°	3325.6	3323.5	3357.7	3444.9	3576.7	3745.8	3957.5	3980.3	4174.3	4304.0	4227.3
22.5°	3286.1	3285.1	3310.0	3381.6	3505.1	3676.3	3922.2	3953.3	4186.8	4336.2	4210.7
25°	3305.9	3301.7	3323.5	3376.4	3475.0	3649.3	3932.6	3965.8	4239.7	4402.6	4213.8
27.5°	3367.1	3361.9	3380.6	3428.3	3503.0	3677.3	4005.2	4043.6	4351.8	4524.0	4255.3
30°	3460.5	3457.3	3476.0	3521.7	3587.0	3770.7	4144.2	4187.8	4525.1	4712.9	4345.5
32.5°	3569.4	3564.2	3597.4	3650.3	3726.1	3940.9	4331.0	4388.1	4730.5	4955.7	4497.0
35°	3691.8	3687.7	3733.4	3810.1	3919.1	4177.5	4557.2	4619.5	4940.1	5230.6	4698.3
37.5°	3811.2	3811.2	3899.4	4013.5	4150.5	4434.8	4769.9	4809.4	5085.4	5474.5	4914.2
40°	3917.0	3923.2	4056.1	4227.3	4401.6	4667.2	4910.0	4943.2	5149.7	5642.6	5102.0
42.5°	4034.3	4039.4	4194.1	4418.2	4625.7	4855.0	4995.1	5011.7	5162.2	5726.6	5234.8
45°	4127.6	4134.9	4326.9	4566.6	4820.8	4996.1	5062.5	5077.1	5179.8	5772.3	5331.3
47.5°	4176.4	4186.8	4406.8	4685.9	4952.6	5122.7	5173.6	5179.8	5252.4	5852.2	5447.5
50°	4168.1	4188.9	4436.9	4745.0	5050.1	5250.3	5352.0	5362.4	5400.8	5969.4	5583.4
52.5°	4241.8	4251.1	4501.2	4815.6	5189.1	5485.9	5662.3	5676.8	5659.2	6057.6	5664.4
55°	4119.3	4164.0	4421.3	4805.2	5400.8	5850.1	6121.9	6114.7	5893.7	6156.2	5799.2
57.5°	3331.8	3397.2	3632.7	4078.9	5052.2	6105.3	6465.4	6447.8	6075.3	6231.9	5945.6
60°	2306.6	2317.0	2529.7	2846.2	3899.4	5393.5	6364.8	6403.1	6108.5	6136.5	5674.7
62.5°	1844.9	1841.8	1861.5	1869.8	2479.9	3791.5	5024.1	5164.2	5075.0	4781.3	4021.8
65°	1575.1	1586.5	1644.6	1614.5	1618.7	2135.4	3001.8	3021.5	2959.3	2853.5	2127.1
67.5°	1232.7	1252.4	1355.1	1472.4	1435.0	1374.8	1557.5	1548.1	1220.2	944.2	780.3
70°	772.0	784.4	894.4	1155.9	1249.3	1128.9	1001.3	997.2	653.7	537.5	589.4
72.5°	450.3	452.4	483.5	644.4	829.1	772.0	736.7	709.7	420.2	428.5	470.0
75°	248.0	248.0	247.0	278.1	326.8	289.5	280.2	272.9	281.2	318.5	349.7
77.5°	51.9	52.9	56.0	73.7	95.5	116.2	146.3	147.3	183.7	212.7	237.6
80°	23.9	24.9	31.1	39.4	50.8	67.4	89.2	90.3	111.0	133.9	150.5
82.5°	12.5	13.5	16.6	20.8	27.0	35.3	49.8	49.8	66.4	78.9	89.2
85°	4.2	4.2	6.2	8.3	11.4	14.5	19.7	19.7	29.1	38.4	44.6
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	4.2	5.2	6.2	10.4
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°	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7	4653.7
2.5°	4633.0	4600.8	4601.8	4608.1	4588.3	4558.3	4538.5	4513.6	4498.1	4495.0	4506.4
5°	4566.6	4529.2	4503.3	4476.3	4420.3	4353.8	4302.0	4259.4	4231.4	4221.0	4208.6
7.5°	4475.2	4426.5	4361.1	4285.4	4183.7	4065.4	3982.4	3904.6	3850.6	3835.0	3827.8
10°	4383.9	4313.4	4197.2	4056.1	3886.9	3727.1	3576.7	3461.5	3370.2	3318.3	3334.9
12.5°	4289.5	4202.4	4020.8	3803.9	3568.4	3327.6	3130.5	2939.6	2792.2	2718.6	2696.8
15°	4206.5	4088.2	3835.0	3541.4	3228.0	2925.0	2639.7	2353.3	2166.5	2064.9	2036.8
17.5°	4135.9	3982.4	3638.9	3273.7	2899.1	2467.5	2116.7	1851.1	1723.5	1667.5	1663.3
20°	4066.4	3878.6	3444.9	2985.2	2519.3	2035.8	1722.4	1597.9	1552.3	1532.6	1531.5
22.5°	4004.2	3769.7	3240.5	2696.8	2141.6	1711.0	1538.8	1484.8	1472.4	1472.4	1470.3
25°	3951.3	3660.7	3030.9	2390.7	1800.3	1523.2	1443.3	1420.5	1425.7	1435.0	1436.1
27.5°	3929.5	3575.6	2828.5	2076.3	1564.7	1414.3	1378.0	1374.8	1389.4	1403.9	1406.0
30°	3952.3	3517.5	2621.0	1775.4	1423.6	1347.9	1331.3	1337.5	1355.1	1369.7	1369.7
32.5°	4022.8	3488.5	2409.4	1555.4	1341.6	1301.2	1296.0	1302.2	1315.7	1324.0	1325.0
35°	4142.2	3499.9	2190.4	1407.0	1288.7	1266.9	1265.9	1270.0	1275.2	1280.4	1281.5
37.5°	4292.6	3550.7	1955.9	1320.9	1254.5	1242.0	1240.0	1238.9	1240.0	1240.0	1241.0
40°	4440.0	3627.5	1746.3	1270.0	1230.6	1220.2	1215.1	1207.8	1206.8	1204.7	1203.6
42.5°	4548.9	3686.7	1579.3	1233.7	1208.8	1196.4	1190.1	1178.7	1177.7	1176.7	1175.6
45°	4630.9	3736.5	1440.2	1198.4	1186.0	1174.6	1161.1	1150.7	1152.8	1154.9	1154.9
47.5°	4723.2	3780.0	1338.5	1165.2	1158.0	1146.6	1130.0	1122.7	1130.0	1137.2	1137.2
50°	4835.3	3841.3	1255.5	1132.0	1128.9	1115.4	1100.9	1097.8	1106.1	1116.5	1116.5
52.5°	4917.3	3894.2	1196.4	1098.8	1098.8	1081.2	1068.7	1067.7	1077.0	1087.4	1088.5
55°	5070.8	4017.7	1175.6	1060.4	1056.3	1042.8	1033.5	1026.2	1037.6	1047.0	1047.0
57.5°	5244.1	4181.6	1180.8	1005.5	1000.3	996.1	988.9	980.5	983.7	994.0	995.1
60°	4876.8	3864.1	1123.7	950.5	947.3	945.3	935.9	921.4	925.6	933.9	934.9
62.5°	3406.5	2568.1	909.0	882.0	892.4	891.3	878.9	862.3	863.3	874.7	874.7
65°	1768.1	1389.4	797.9	819.7	835.3	829.1	808.3	793.8	791.7	806.2	803.1
67.5°	762.6	758.5	726.3	754.3	771.0	757.5	735.7	711.8	713.9	719.1	714.9
70°	614.3	632.9	646.4	676.5	690.0	665.1	641.2	627.8	616.3	615.3	608.0
72.5°	490.8	516.7	546.8	578.0	582.1	557.2	527.1	514.7	497.0	496.0	488.7
75°	369.4	391.2	415.0	440.0	440.0	416.1	396.4	390.1	369.4	363.2	356.9
77.5°	252.1	265.6	284.3	290.5	296.8	287.4	267.7	257.3	233.5	227.2	218.9
80°	158.8	168.1	179.5	183.7	189.9	178.5	162.9	151.5	134.9	129.7	125.6
82.5°	95.5	101.7	108.9	111.0	116.2	107.9	93.4	85.1	75.7	71.6	68.5
85°	48.8	51.9	56.0	57.1	56.0	47.7	42.5	38.4	32.2	31.1	29.1
87.5°	12.5	14.5	15.6	14.5	13.5	10.4	7.3	5.2	2.1	2.1	1.0
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)