

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: P636820

Luminaire Tested: GWS-SA4B-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636820
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-SA4B-750-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 12610.5 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

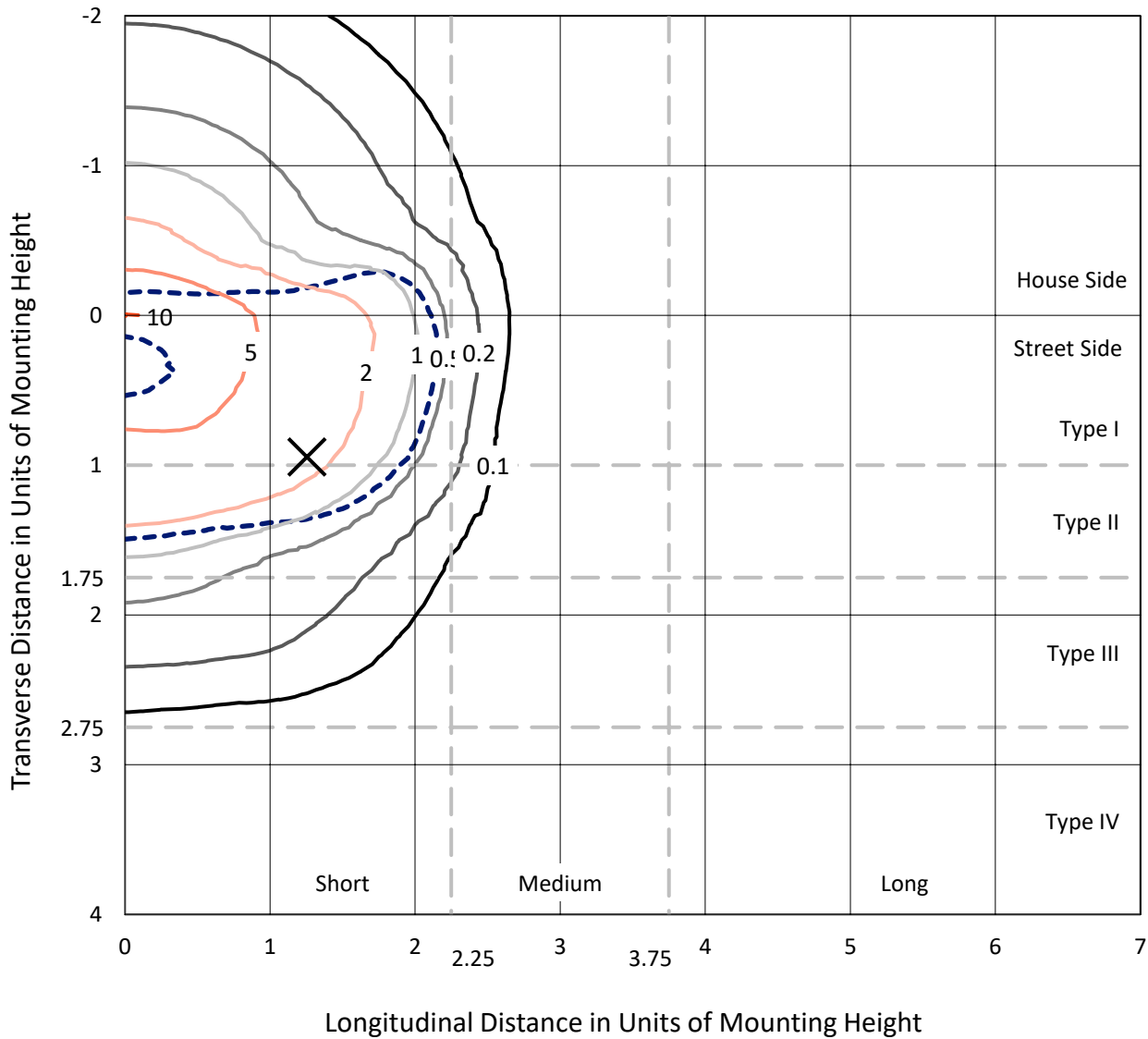
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

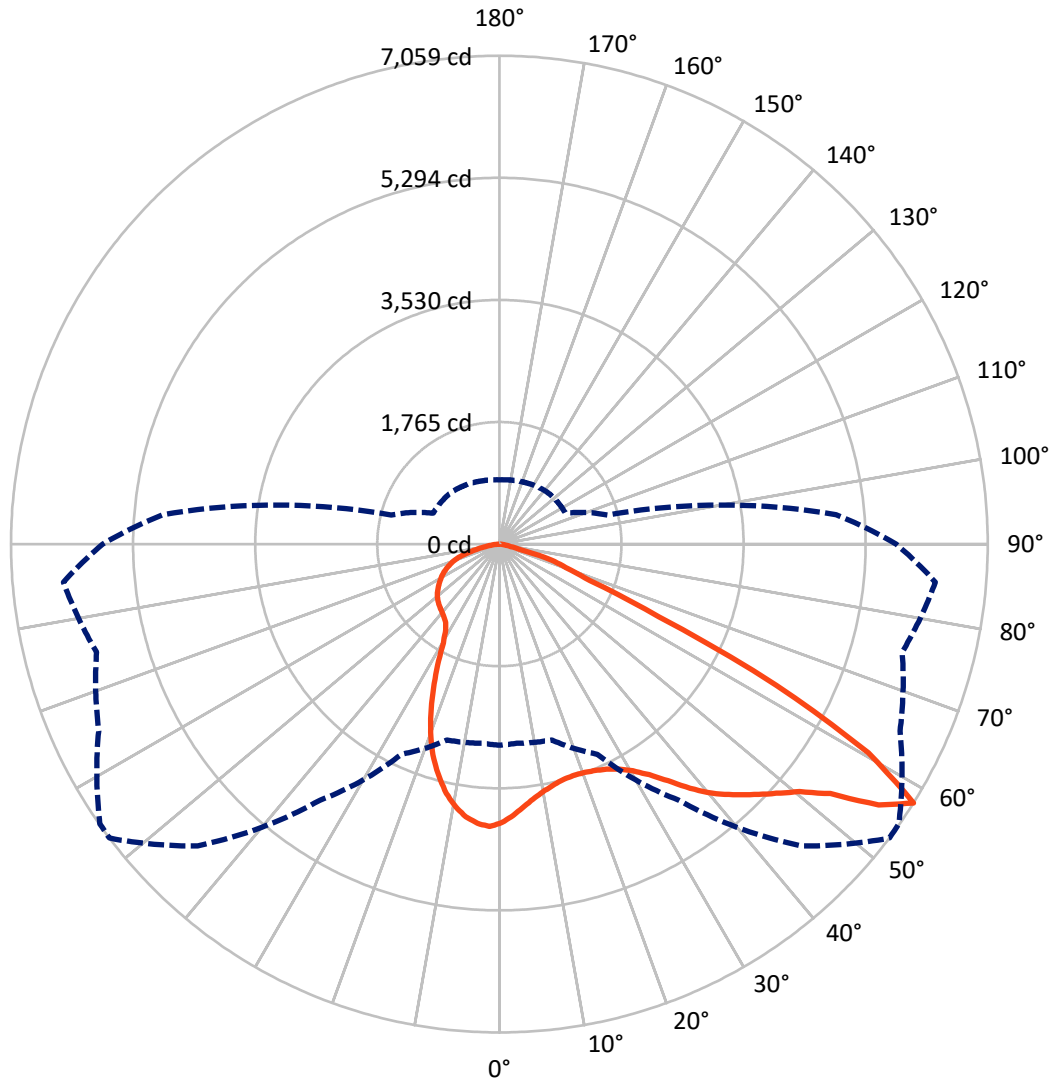
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 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	3942.8	0.0	3942.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8667.7	0.0	8667.7
	% Fixture	68.7	0.0	68.7
Total	Lumens	12610.5	0.0	12610.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	2.9
10°-20°	955.4	7.6
20°-30°	1407.6	11.2
30°-40°	1970.3	15.6
40°-50°	2590.0	20.5
50°-60°	3036.8	24.1
60°-70°	1789.0	14.2
70°-80°	445.0	3.5
80°-90°	52.2	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°	12610.5	100.0
0°-180°	12610.5	100.0

Coefficient of Utilization



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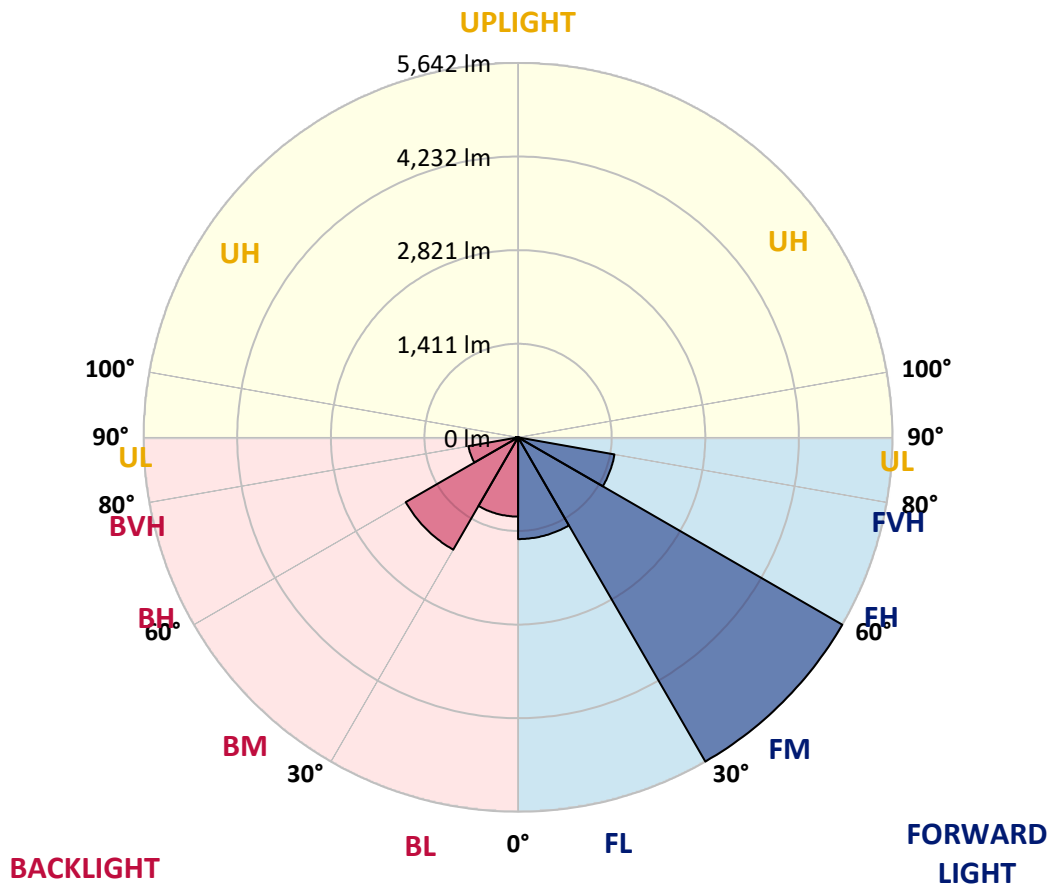
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.2	12.2			
FM (30°-60°)	5642.1	44.7			
FH (60°-80°)	1474.9	11.7			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1193.9	9.5	B3/2500		
BM (30°-60°)	1955.1	15.5	B2/2500		
BH (60°-80°)	759.1	6.0	B2/1000		G2/1000
BVH (80°-90°)	34.7	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°	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9
2.5°	3795.5	3806.1	3808.2	3841.1	3843.3	3891.0	3922.9	3916.5	3949.4	3989.7	4021.6
5°	3614.0	3615.1	3625.7	3664.9	3686.2	3748.8	3801.9	3801.9	3865.5	3948.3	4019.4
7.5°	3464.3	3463.3	3472.8	3516.3	3551.4	3626.7	3698.9	3707.4	3796.6	3917.6	4033.2
10°	3325.3	3332.7	3343.3	3396.4	3441.0	3534.4	3620.4	3634.2	3746.7	3896.3	4052.3
12.5°	3236.1	3237.2	3253.1	3312.6	3369.9	3469.6	3559.9	3576.8	3706.3	3876.2	4066.1
15°	3178.8	3179.9	3196.9	3262.7	3329.5	3430.4	3522.7	3541.8	3683.0	3873.0	4092.7
17.5°	3153.4	3152.3	3168.2	3234.0	3307.3	3412.3	3511.0	3534.4	3693.6	3897.4	4139.4
20°	3153.4	3154.4	3162.9	3222.3	3296.6	3408.1	3522.7	3551.4	3735.0	3952.6	4211.6
22.5°	3197.9	3202.2	3206.4	3246.8	3305.1	3414.5	3553.5	3591.7	3824.1	4044.9	4306.0
25°	3285.0	3286.0	3290.3	3323.2	3349.7	3432.5	3604.4	3661.8	3963.2	4179.7	4424.9
27.5°	3401.7	3416.6	3420.8	3442.1	3442.1	3477.1	3684.0	3766.8	4151.1	4373.9	4576.7
30°	3565.2	3570.5	3577.9	3601.3	3575.8	3560.9	3800.8	3906.9	4368.6	4608.5	4759.2
32.5°	3708.5	3720.1	3760.5	3798.7	3753.0	3706.3	3972.7	4098.0	4577.7	4852.6	4953.5
35°	3830.5	3859.2	3936.7	4021.6	3989.7	3943.0	4200.9	4331.5	4749.7	5027.8	5125.4
37.5°	3978.0	4000.3	4106.5	4244.5	4273.1	4250.8	4479.0	4572.4	4864.3	5072.3	5218.8
40°	4127.7	4161.7	4298.6	4489.6	4599.0	4614.9	4735.9	4798.5	4903.6	4985.3	5200.8
42.5°	4280.5	4338.9	4526.8	4749.7	4943.9	4980.0	4952.4	4978.9	4890.8	4865.4	5116.9
45°	4467.3	4536.3	4748.6	5033.1	5288.9	5345.1	5164.7	5140.3	4888.7	4819.7	5064.9
47.5°	4688.1	4757.1	4959.8	5291.0	5617.9	5659.3	5382.3	5337.7	4963.0	4889.8	5135.0
50°	4883.4	4931.2	5112.7	5483.1	5924.6	5949.0	5622.1	5568.0	5147.7	5084.0	5353.6
52.5°	4684.9	4679.6	4870.7	5327.1	6083.8	6377.8	5991.5	5939.5	5504.3	5406.7	5692.2
55°	3974.9	3914.4	4085.2	4534.2	5639.1	6758.9	6653.8	6549.8	5979.8	5731.4	6009.5
57.5°	2906.1	2889.1	2930.5	3351.8	4517.2	6168.7	7059.2	7049.7	6390.6	6028.6	6325.8
60°	2272.4	2246.9	2136.6	2148.2	3079.1	4818.7	6126.3	6407.5	6645.3	6206.9	6546.6
62.5°	2017.7	1998.6	1941.3	1783.1	1834.1	3230.8	4490.7	4748.6	5806.8	5482.0	5623.2
65°	1670.6	1665.3	1713.1	1706.7	1536.9	1784.2	2534.6	2794.6	3651.1	3696.8	3651.1
67.5°	1214.2	1204.7	1325.7	1564.5	1479.6	1346.9	1412.7	1502.9	1872.3	1681.2	1513.5
70°	789.7	775.9	845.9	1130.4	1324.6	1173.9	1017.9	1003.0	1029.5	640.0	692.0
72.5°	529.6	513.7	512.6	622.0	800.3	790.7	788.6	781.2	697.3	505.2	560.4
75°	295.1	282.3	279.1	268.5	286.6	291.9	311.0	321.6	348.1	383.2	424.6
77.5°	49.9	48.8	61.6	78.5	108.3	139.0	171.9	181.5	224.0	265.3	291.9
80°	27.6	28.7	37.1	45.6	60.5	82.8	106.1	112.5	138.0	160.3	181.5
82.5°	14.9	14.9	19.1	24.4	32.9	43.5	57.3	62.6	79.6	93.4	108.3
85°	5.3	5.3	7.4	9.6	13.8	18.0	22.3	25.5	35.0	47.8	54.1
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	4.2	4.2	5.3	9.6	13.8
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°	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9	4026.9
2.5°	4048.1	4019.4	4058.7	4076.8	4083.1	4087.4	4059.8	4040.7	4034.3	4014.1	4002.5
5°	4063.0	4043.9	4081.0	4081.0	4054.5	4026.9	3970.6	3931.3	3903.8	3870.9	3865.5
7.5°	4088.4	4074.6	4094.8	4053.4	3986.5	3912.2	3814.6	3738.2	3676.6	3636.3	3637.3
10°	4122.4	4105.4	4089.5	3997.2	3875.1	3738.2	3588.5	3477.1	3375.2	3328.5	3303.0
12.5°	4144.7	4120.3	4053.4	3900.6	3721.2	3537.6	3326.4	3160.8	3013.3	2946.4	2941.1
15°	4172.3	4127.7	3994.0	3775.3	3525.9	3275.4	3003.7	2773.4	2573.8	2469.8	2464.5
17.5°	4208.4	4135.1	3922.9	3632.0	3320.0	2950.6	2608.9	2319.1	2106.8	2026.2	2040.0
20°	4259.3	4143.6	3842.2	3472.8	3064.2	2581.3	2155.7	1889.3	1807.5	1802.2	1791.6
22.5°	4316.6	4148.9	3753.0	3294.5	2754.3	2187.5	1781.0	1667.4	1666.4	1692.9	1699.3
25°	4381.4	4153.2	3652.2	3086.5	2418.9	1794.8	1575.1	1541.1	1567.7	1617.5	1623.9
27.5°	4464.2	4161.7	3530.1	2858.3	2062.3	1550.7	1461.5	1453.0	1484.9	1531.6	1529.4
30°	4586.2	4192.4	3400.7	2596.1	1696.1	1435.0	1392.5	1393.6	1406.3	1428.6	1431.8
32.5°	4710.4	4240.2	3274.4	2301.1	1485.9	1369.2	1350.1	1348.0	1348.0	1357.5	1359.6
35°	4828.2	4294.3	3137.4	1993.3	1384.0	1331.0	1318.2	1311.9	1308.7	1306.6	1303.4
37.5°	4894.0	4320.9	3003.7	1689.7	1329.9	1305.5	1292.8	1284.3	1272.6	1264.1	1262.0
40°	4865.4	4290.1	2848.7	1462.6	1297.0	1281.1	1266.2	1254.6	1238.6	1231.2	1227.0
42.5°	4769.8	4194.6	2680.0	1355.4	1270.5	1254.6	1236.5	1217.4	1206.8	1200.4	1199.4
45°	4669.0	4078.9	2476.2	1292.8	1245.0	1225.9	1204.7	1183.4	1171.8	1168.6	1167.5
47.5°	4665.8	4021.6	2259.7	1242.9	1214.2	1195.1	1168.6	1147.4	1134.6	1130.4	1126.1
50°	4805.9	4079.9	2015.6	1199.4	1182.4	1162.2	1132.5	1109.1	1093.2	1087.9	1086.9
52.5°	5096.7	4299.6	1796.9	1155.8	1139.9	1116.6	1092.2	1068.8	1049.7	1040.2	1039.1
55°	5410.9	4578.8	1661.1	1111.3	1090.0	1069.9	1047.6	1022.1	1000.9	986.0	983.9
57.5°	5735.7	4883.4	1619.7	1055.0	1039.1	1025.3	998.8	971.2	946.8	933.0	929.8
60°	6003.2	5145.6	1697.1	995.6	987.1	969.0	944.6	918.1	901.1	890.5	888.4
62.5°	5025.6	4189.3	1370.2	930.8	930.8	911.7	884.1	865.0	853.3	845.9	843.8
65°	3189.4	2594.0	935.1	866.1	865.0	839.6	816.2	803.5	798.2	786.5	784.4
67.5°	1389.3	1185.6	799.2	800.3	796.0	768.4	745.1	735.5	724.9	712.2	711.1
70°	720.7	734.5	715.4	727.0	719.6	686.7	664.4	649.6	627.3	614.5	615.6
72.5°	581.6	596.5	617.7	635.8	619.8	593.3	558.3	540.2	511.6	497.8	498.8
75°	443.7	459.6	479.7	498.8	486.1	453.2	430.9	412.9	380.0	364.1	367.2
77.5°	305.7	314.2	338.6	337.5	333.3	323.7	290.8	269.6	235.6	216.5	218.6
80°	190.0	195.3	207.0	212.3	210.2	197.4	170.9	155.0	134.8	123.1	124.2
82.5°	114.6	117.8	128.4	129.5	128.4	118.9	98.7	87.0	74.3	67.9	67.9
85°	58.4	60.5	66.9	66.9	60.5	50.9	45.6	40.3	32.9	29.7	29.7
87.5°	15.9	15.9	20.2	17.0	13.8	12.7	6.4	5.3	2.1	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)