

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: P632919

Luminaire Tested: GWS-SA2D-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632919  
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-SA2D-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

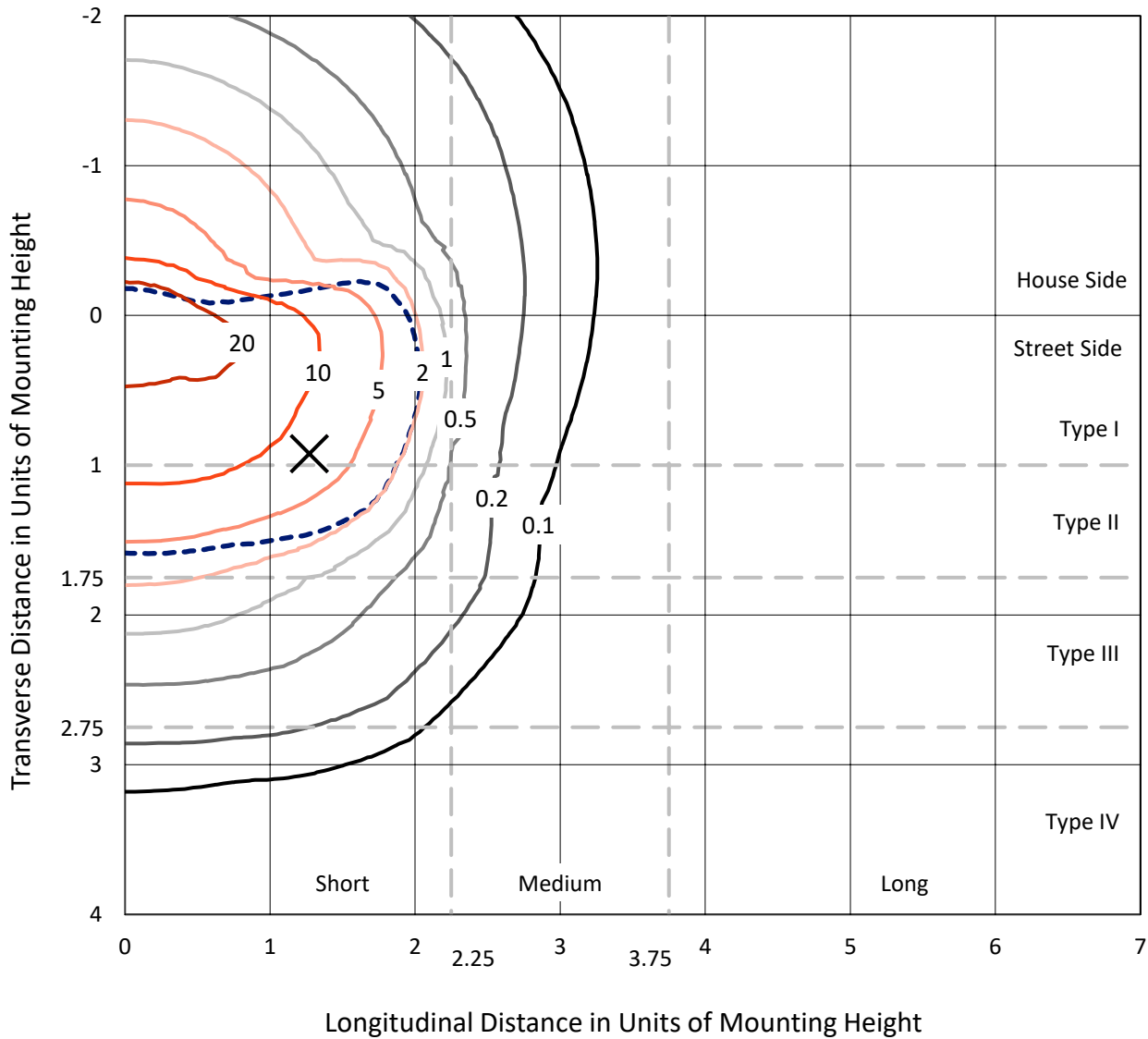
Lumens per Lamp: N/A  
Luminaire Lumens: 9865.1 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

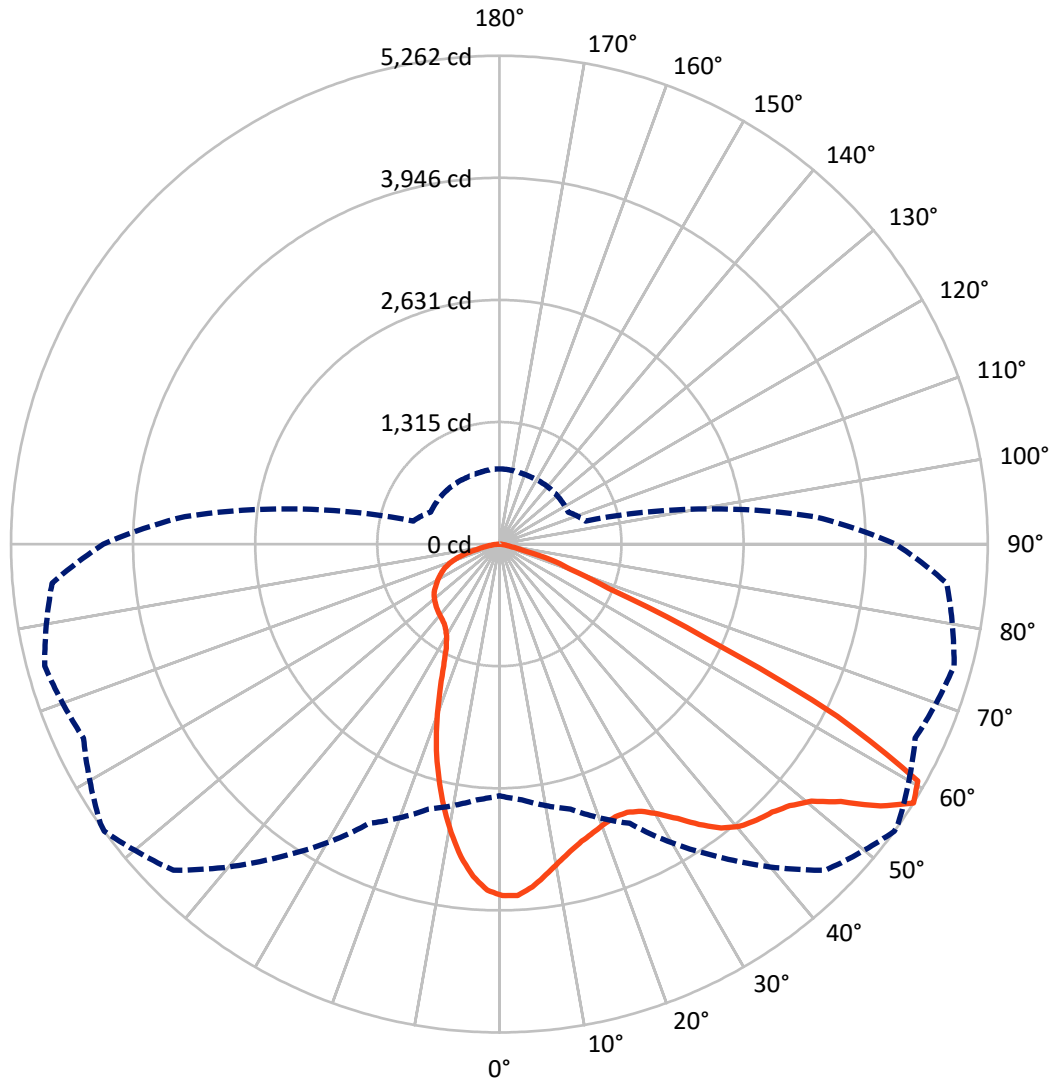
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37.9 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
<b>House Side</b>	Lumens	2867.9	0.0	2867.9
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	6997.2	0.0	6997.2
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	9865.1	0.0	9865.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.9	3.4
10°-20°	794.4	8.1
20°-30°	1099.3	11.1
30°-40°	1527.5	15.5
40°-50°	2017.3	20.4
50°-60°	2397.3	24.3
60°-70°	1328.1	13.5
70°-80°	330.7	3.4
80°-90°	37.6	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°	9865.1	100.0
0°-180°	9865.1	100.0

**Coefficient of Utilization**



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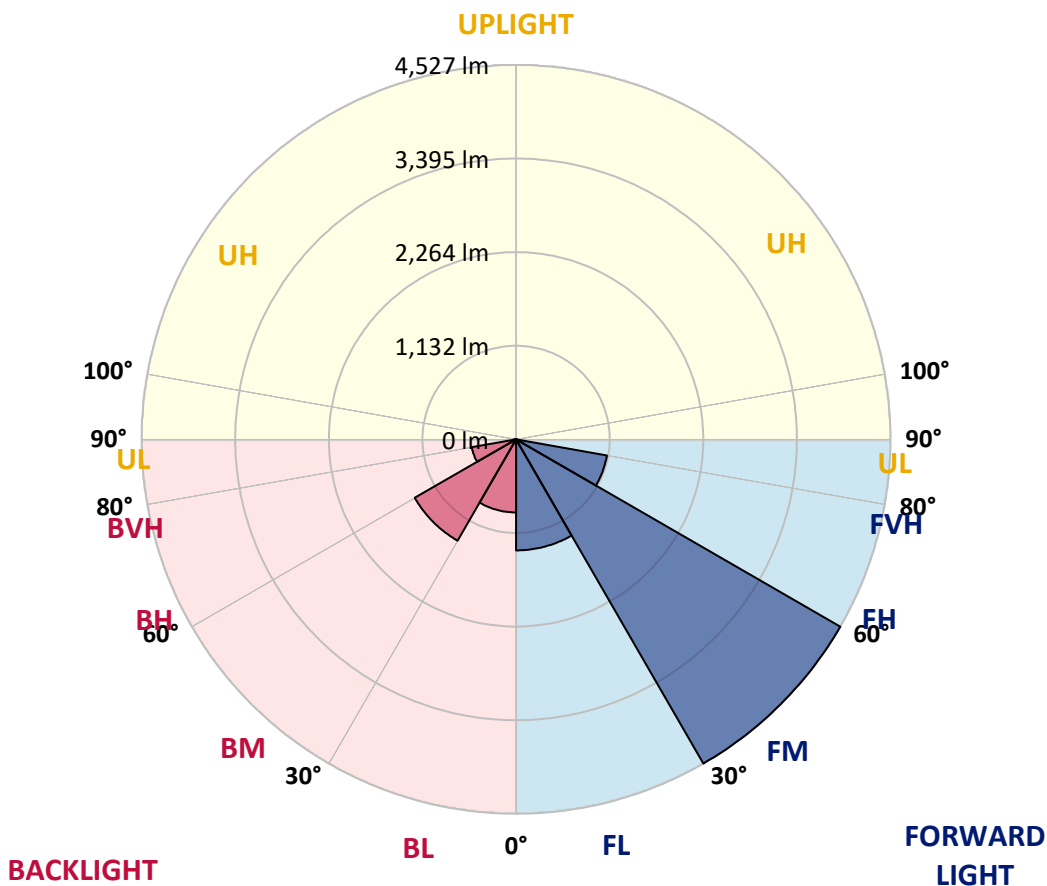
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.8	13.6			
FM (30°-60°)	4527.3	45.9			
FH (60°-80°)	1115.4	11.3			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	883.8	9.0	B2/1000		
BM (30°-60°)	1414.8	14.3	B2/2500		
BH (60°-80°)	543.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	25.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4
2.5°	3716.5	3724.1	3729.2	3746.9	3762.1	3775.6	3790.0	3790.0	3789.1	3786.6	3781.5
5°	3569.6	3578.0	3589.8	3614.3	3647.3	3670.9	3709.7	3713.1	3730.0	3736.8	3733.4
7.5°	3399.0	3401.5	3416.7	3448.8	3501.2	3543.4	3599.1	3605.9	3646.4	3670.1	3665.8
10°	3212.4	3203.9	3230.9	3278.2	3346.6	3417.6	3489.3	3495.3	3560.3	3605.0	3601.7
12.5°	3041.8	3042.6	3069.6	3127.1	3212.4	3300.2	3396.4	3410.0	3490.2	3547.6	3541.7
15°	2899.1	2902.4	2935.4	3000.4	3097.5	3202.2	3322.1	3334.8	3436.1	3512.1	3495.3
17.5°	2785.1	2788.4	2817.1	2891.5	2995.3	3122.0	3268.1	3280.8	3406.6	3496.9	3462.3
20°	2706.5	2704.8	2732.7	2803.6	2910.9	3048.5	3220.8	3239.4	3397.3	3502.9	3440.4
22.5°	2674.4	2673.6	2693.9	2752.1	2852.6	2991.9	3192.1	3217.4	3407.4	3529.0	3426.8
25°	2690.5	2687.1	2704.8	2747.9	2828.1	2970.0	3200.5	3227.6	3450.5	3583.1	3429.4
27.5°	2740.3	2736.1	2751.3	2790.1	2850.9	2992.8	3259.6	3290.9	3541.7	3681.9	3463.2
30°	2816.3	2813.8	2829.0	2866.1	2919.3	3068.8	3372.8	3408.3	3682.7	3835.6	3536.6
32.5°	2905.0	2900.7	2927.8	2970.8	3032.5	3207.3	3524.8	3571.3	3849.9	4033.2	3659.9
35°	3004.6	3001.2	3038.4	3100.9	3189.6	3399.8	3708.9	3759.6	4020.5	4257.0	3823.7
37.5°	3101.7	3101.7	3173.5	3266.4	3377.9	3609.3	3882.0	3914.1	4138.7	4455.4	3999.4
40°	3187.9	3192.9	3301.0	3440.4	3582.2	3798.4	3996.0	4023.0	4191.1	4592.2	4152.2
42.5°	3283.3	3287.5	3413.3	3595.7	3764.6	3951.3	4065.3	4078.8	4201.2	4660.6	4260.3
45°	3359.3	3365.2	3521.4	3716.5	3923.4	4066.1	4120.2	4132.0	4215.6	4697.8	4338.9
47.5°	3399.0	3407.4	3586.5	3813.6	4030.6	4169.1	4210.5	4215.6	4274.7	4762.8	4433.5
50°	3392.2	3409.1	3610.9	3861.7	4110.0	4273.0	4355.8	4364.2	4395.5	4858.2	4544.1
52.5°	3452.2	3459.8	3663.3	3919.2	4223.2	4464.7	4608.3	4620.1	4605.7	4930.0	4609.9
55°	3352.5	3388.8	3598.3	3910.7	4395.5	4761.1	4982.4	4976.4	4796.6	5010.2	4719.7
57.5°	2711.6	2764.8	2956.5	3319.6	4111.7	4968.8	5261.9	5247.5	4944.4	5071.9	4838.8
60°	1877.3	1885.7	2058.8	2316.4	3173.5	4389.5	5180.0	5211.2	4971.4	4994.2	4618.4
62.5°	1501.5	1498.9	1515.0	1521.7	2018.3	3085.7	4088.9	4202.9	4130.3	3891.3	3273.2
65°	1281.9	1291.2	1338.5	1314.0	1317.4	1737.9	2443.0	2459.1	2408.4	2322.3	1731.2
67.5°	1003.2	1019.3	1102.9	1198.3	1167.9	1118.9	1267.5	1259.9	993.1	768.5	635.0
70°	628.3	638.4	727.9	940.7	1016.7	918.8	814.9	811.5	532.0	437.4	479.7
72.5°	366.5	368.2	393.5	524.4	674.7	628.3	599.6	577.6	342.0	348.8	382.5
75°	201.8	201.8	201.0	226.3	266.0	235.6	228.0	222.1	228.9	259.3	284.6
77.5°	42.2	43.1	45.6	60.0	77.7	94.6	119.1	119.9	149.5	173.1	193.4
80°	19.4	20.3	25.3	32.1	41.4	54.9	72.6	73.5	90.4	108.9	122.4
82.5°	10.1	11.0	13.5	16.9	22.0	28.7	40.5	40.5	54.0	64.2	72.6
85°	3.4	3.4	5.1	6.8	9.3	11.8	16.0	16.0	23.6	31.2	36.3
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.4	3.4	4.2	5.1	8.4
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°	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4	3787.4
2.5°	3770.5	3744.4	3745.2	3750.3	3734.2	3709.7	3693.7	3673.4	3660.8	3658.2	3667.5
5°	3716.5	3686.1	3665.0	3643.0	3597.4	3543.4	3501.2	3466.5	3443.7	3435.3	3425.2
7.5°	3642.2	3602.5	3549.3	3487.7	3404.9	3308.6	3241.1	3177.7	3133.8	3121.2	3115.2
10°	3567.9	3510.5	3415.9	3301.0	3163.4	3033.3	2910.9	2817.1	2742.8	2700.6	2714.1
12.5°	3491.0	3420.1	3272.3	3095.8	2904.1	2708.2	2547.8	2392.4	2272.5	2212.5	2194.8
15°	3423.5	3327.2	3121.2	2882.2	2627.1	2380.6	2148.3	1915.3	1763.2	1680.5	1657.7
17.5°	3366.0	3241.1	2961.5	2664.3	2359.4	2008.1	1722.7	1506.5	1402.7	1357.1	1353.7
20°	3309.5	3156.6	2803.6	2429.5	2050.4	1656.8	1401.8	1300.5	1263.3	1247.3	1246.4
22.5°	3258.8	3067.9	2637.3	2194.8	1743.0	1392.5	1252.3	1208.4	1198.3	1198.3	1196.6
25°	3215.7	2979.3	2466.7	1945.7	1465.2	1239.7	1174.7	1156.1	1160.3	1167.9	1168.7
27.5°	3198.0	2910.0	2302.0	1689.8	1273.5	1151.0	1121.5	1118.9	1130.7	1142.6	1144.3
30°	3216.6	2862.7	2133.1	1444.9	1158.6	1097.0	1083.5	1088.5	1102.9	1114.7	1114.7
32.5°	3274.0	2839.1	1960.9	1265.9	1091.9	1059.0	1054.7	1059.8	1070.8	1077.5	1078.4
35°	3371.1	2848.4	1782.7	1145.1	1048.8	1031.1	1030.3	1033.6	1037.9	1042.1	1042.9
37.5°	3493.6	2889.8	1591.8	1075.0	1021.0	1010.8	1009.1	1008.3	1009.1	1009.1	1010.0
40°	3613.5	2952.3	1421.2	1033.6	1001.5	993.1	988.9	983.0	982.1	980.4	979.6
42.5°	3702.1	3000.4	1285.3	1004.1	983.8	973.7	968.6	959.3	958.5	957.6	956.8
45°	3768.9	3040.9	1172.1	975.4	965.2	955.9	945.0	936.5	938.2	939.9	939.9
47.5°	3844.0	3076.4	1089.4	948.3	942.4	933.1	919.6	913.7	919.6	925.5	925.5
50°	3935.2	3126.2	1021.8	921.3	918.8	907.8	896.0	893.4	900.2	908.6	908.6
52.5°	4001.9	3169.3	973.7	894.3	894.3	879.9	869.8	869.0	876.6	885.0	885.8
55°	4126.9	3269.8	956.8	863.0	859.7	848.7	841.1	835.2	844.5	852.1	852.1
57.5°	4267.9	3403.2	961.0	818.3	814.1	810.7	804.8	798.0	800.6	809.0	809.8
60°	3969.0	3144.8	914.6	773.5	771.0	769.3	761.7	749.9	753.3	760.0	760.9
62.5°	2772.4	2090.1	739.8	717.8	726.2	725.4	715.3	701.8	702.6	711.9	711.9
65°	1439.0	1130.7	649.4	667.1	679.8	674.7	657.8	646.0	644.3	656.2	653.6
67.5°	620.7	617.3	591.1	613.9	627.4	616.5	598.7	579.3	581.0	585.2	581.8
70°	499.9	515.1	526.1	550.6	561.6	541.3	521.9	510.9	501.6	500.8	494.9
72.5°	399.4	420.5	445.0	470.4	473.7	453.5	429.0	418.9	404.5	403.7	397.7
75°	300.6	318.4	337.8	358.1	358.1	338.6	322.6	317.5	300.6	295.6	290.5
77.5°	205.2	216.2	231.4	236.5	241.5	233.9	217.9	209.4	190.0	184.9	178.2
80°	129.2	136.8	146.1	149.5	154.5	145.2	132.6	123.3	109.8	105.6	102.2
82.5°	77.7	82.8	88.7	90.4	94.6	87.8	76.0	69.2	61.6	58.3	55.7
85°	39.7	42.2	45.6	46.4	45.6	38.8	34.6	31.2	26.2	25.3	23.6
87.5°	10.1	11.8	12.7	11.8	11.0	8.4	5.9	4.2	1.7	1.7	0.8
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)