

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: P637839

Luminaire Tested: GWS-SA4D-750-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25067.2 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

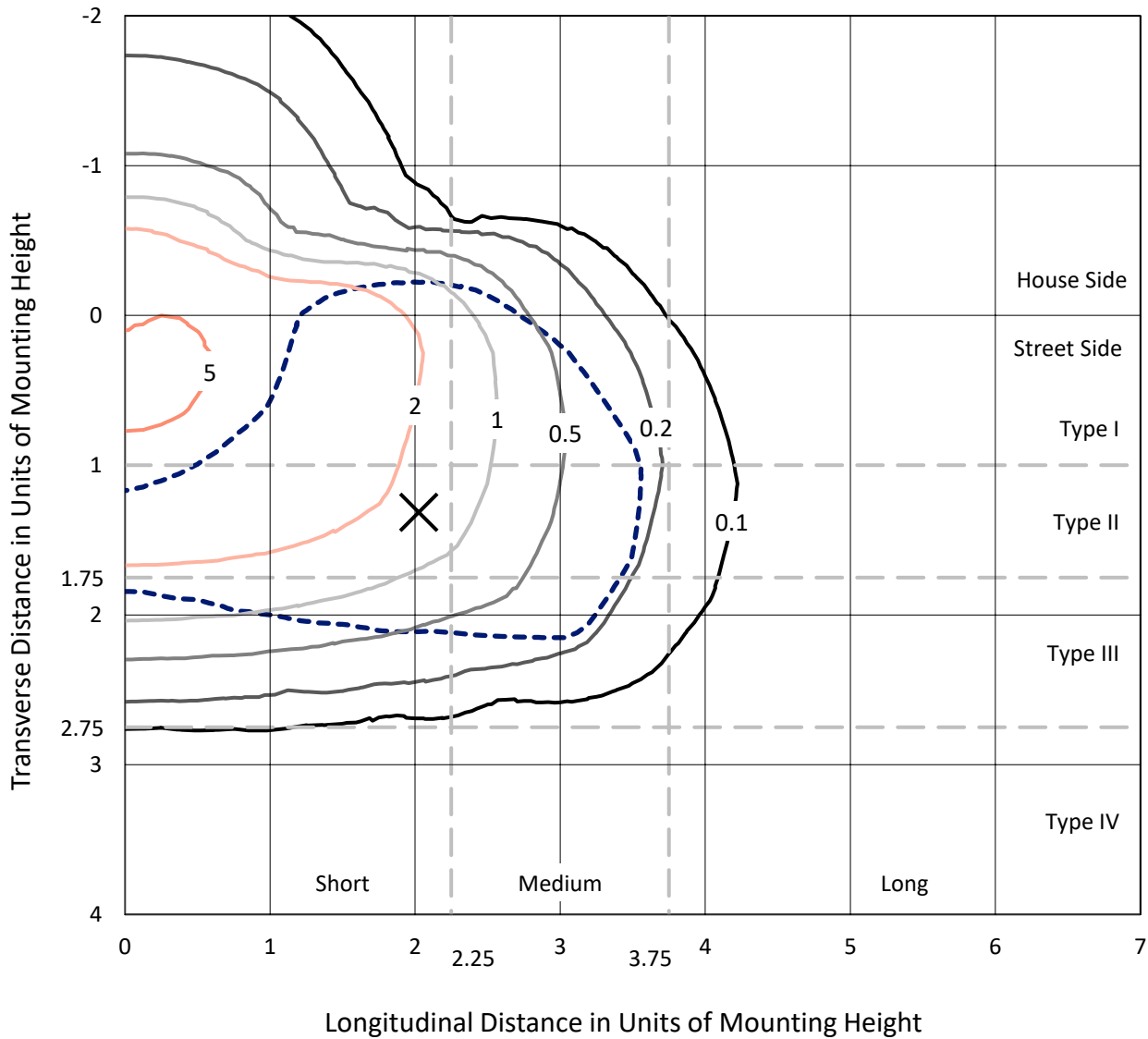
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637839
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Iso-Footcandle Lines of Horizontal Illumination

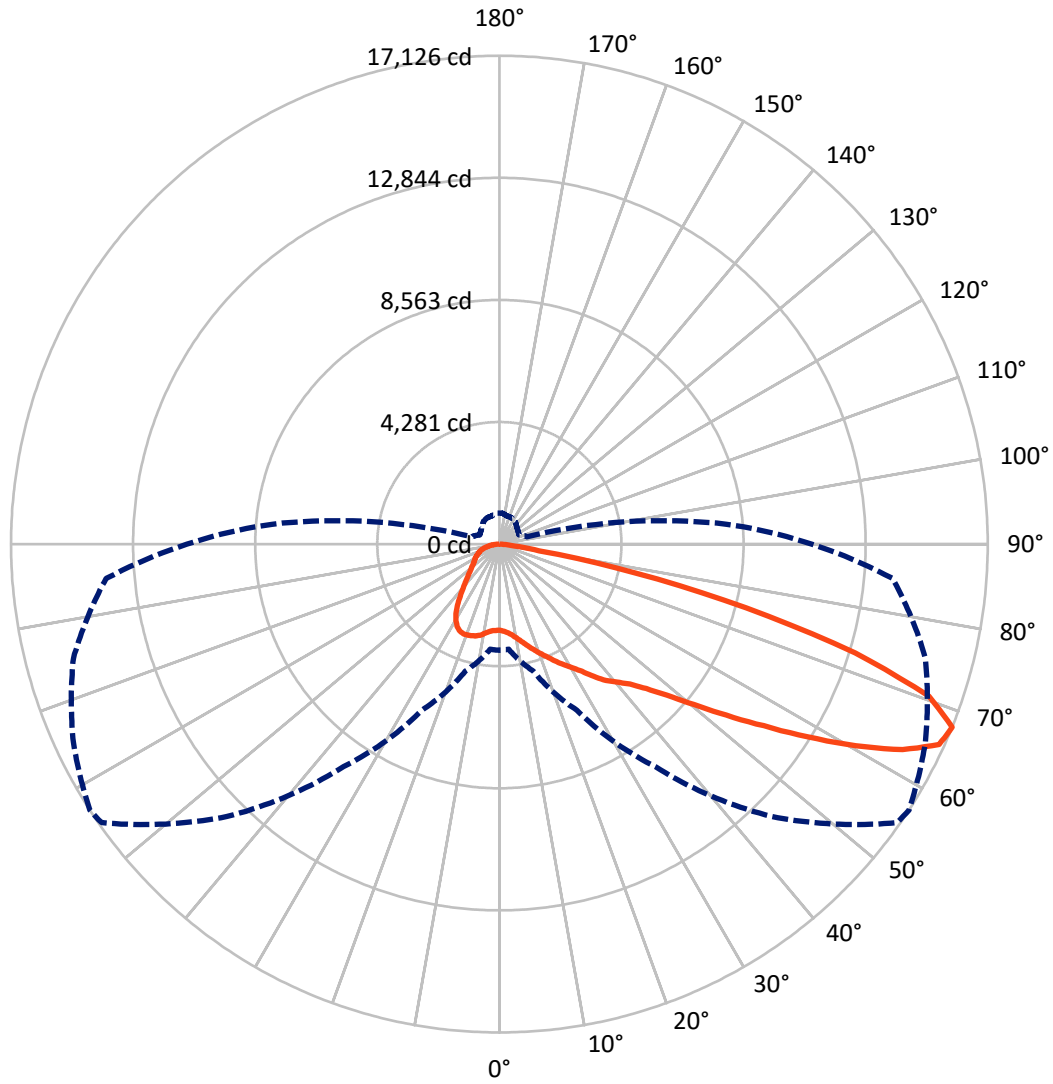
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

REPORT NUMBER: P637839
CATALOG NUMBER: GWS-SA4D-750-U-T3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5511.3	0.0	5511.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19555.9	0.0	19555.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	25067.2	0.0	25067.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.2
10°-20°	991.7	4.0
20°-30°	1768.0	7.1
30°-40°	2570.5	10.3
40°-50°	3720.4	14.8
50°-60°	5822.2	23.2
60°-70°	6792.0	27.1
70°-80°	2835.3	11.3
80°-90°	267.6	1.1
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°	25067.2	100.0
0°-180°	25067.2	100.0

Coefficient of Utilization



REPORT NUMBER: P637839

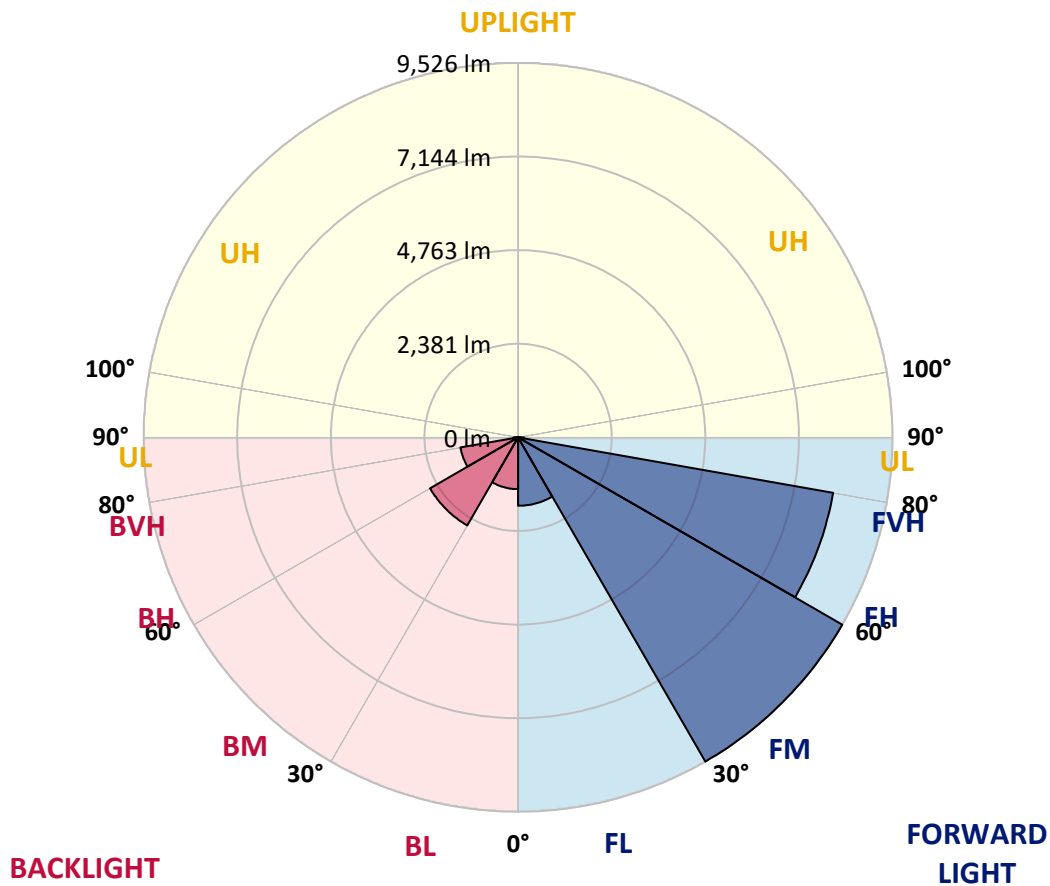
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.2	6.9			
FM (30°-60°)	9525.9	38.0			
FH (60°-80°)	8139.7	32.5			G4/12000
FVH (80°-90°)	149.1	0.6			G2/225
BL (0°-30°)	1318.1	5.3	B3/2500		
BM (30°-60°)	2587.2	10.3	B3/5000		
BH (60°-80°)	1487.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	118.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P637839
 CATALOG NUMBER: GWS-SA4D-750-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4
2.5°	3063.5	3059.9	3058.1	3068.9	3065.3	3063.5	3063.5	3061.7	3058.1	3043.8	3024.0
5°	3147.9	3140.7	3133.6	3142.5	3135.4	3128.2	3126.4	3122.8	3110.2	3088.7	3058.1
7.5°	3235.9	3228.7	3230.5	3235.9	3230.5	3226.9	3221.5	3218.0	3198.2	3164.1	3122.8
10°	3359.8	3359.8	3363.4	3368.8	3370.6	3365.2	3354.4	3349.0	3325.7	3282.6	3225.1
12.5°	3539.4	3535.8	3535.8	3532.2	3537.6	3532.2	3521.4	3512.5	3483.7	3428.1	3345.5
15°	3776.4	3762.1	3749.5	3726.2	3719.0	3699.2	3702.8	3697.4	3670.5	3595.1	3490.9
17.5°	4029.6	4027.8	4008.1	3961.4	3914.7	3882.4	3889.6	3887.8	3873.4	3771.0	3638.2
20°	4252.3	4261.3	4243.3	4207.4	4144.6	4083.5	4079.9	4088.9	4070.9	3968.6	3783.6
22.5°	4501.9	4494.7	4476.8	4430.1	4383.4	4318.7	4297.2	4290.0	4282.8	4166.1	3932.7
25°	4738.9	4760.5	4737.1	4694.1	4622.2	4552.2	4534.2	4541.4	4521.7	4367.2	4092.5
27.5°	5038.8	5047.8	5033.4	4974.2	4913.1	4814.4	4780.2	4780.2	4773.1	4555.8	4218.2
30°	5358.5	5383.6	5358.5	5310.0	5247.1	5105.3	5031.7	5024.5	5002.9	4749.7	4365.4
32.5°	5679.9	5697.9	5679.9	5633.2	5561.4	5437.5	5331.5	5315.4	5286.6	4961.6	4516.3
35°	5965.4	5981.6	5978.0	5988.8	5929.5	5773.3	5708.6	5701.5	5626.0	5238.2	4721.0
37.5°	6277.9	6297.6	6270.7	6292.3	6268.9	6121.7	6101.9	6066.0	5958.3	5498.5	4936.5
40°	6633.4	6651.4	6608.3	6617.3	6590.3	6507.7	6407.2	6358.7	6198.9	5780.5	5275.9
42.5°	7014.1	7055.4	7075.2	7059.0	6996.2	6949.5	6773.5	6712.5	6579.6	6288.7	5834.3
45°	7565.4	7626.5	7655.2	7613.9	7587.0	7520.5	7305.1	7231.4	7161.4	7005.2	6613.7
47.5°	8159.8	8215.5	8307.1	8325.0	8346.6	8296.3	7992.8	7921.0	7933.6	7915.6	7572.6
50°	8633.9	8680.6	8887.1	9108.0	9291.1	9305.5	8917.6	8840.4	8908.6	8966.1	8727.3
52.5°	8978.7	9020.0	9292.9	9749.0	10163.9	10470.9	10052.5	9964.5	10020.2	10149.5	10040.0
55°	9258.8	9316.3	9601.8	10302.1	11140.7	11625.6	11358.0	11246.7	11223.3	11383.2	11446.0
57.5°	9406.1	9424.0	9824.5	10734.9	11857.2	12758.7	12875.4	12749.7	12527.1	12615.0	12941.9
60°	9070.3	9100.8	9648.5	10846.2	12422.9	13882.8	14468.2	14364.1	13890.0	13938.5	14299.4
62.5°	8141.9	8185.0	8844.0	10316.5	12469.6	14633.4	15938.9	15872.5	15236.8	14974.6	15082.4
65°	6531.1	6545.5	7227.8	9005.6	11541.2	14726.8	16964.3	16948.2	16177.8	15563.6	15102.1
67.5°	3724.4	3699.2	4611.4	6423.3	9524.6	13512.9	17030.8	17125.9	16483.1	15466.7	13845.1
70°	1614.4	1618.0	2038.2	3169.5	6164.8	10921.7	15818.6	15982.0	15599.6	13852.3	11015.0
72.5°	747.0	757.8	939.2	1371.9	2632.5	6775.3	12898.8	13046.0	12717.4	11086.9	8014.4
75°	527.9	536.9	626.7	786.5	1210.3	2639.7	8628.5	8937.4	9097.2	8292.7	5281.3
77.5°	400.4	413.0	457.9	545.9	747.0	935.6	4128.4	4864.6	5794.8	5159.1	2720.5
80°	255.0	255.0	303.5	364.5	456.1	486.6	1192.4	1413.2	2835.5	2126.2	1068.5
82.5°	172.4	177.8	206.5	231.6	262.2	276.5	511.8	545.9	818.9	723.7	440.0
85°	91.6	95.2	107.7	105.9	125.7	109.5	215.5	213.7	299.9	328.6	167.0
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	23.3	25.1	62.9	100.6	55.7
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°	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4	3020.4
2.5°	3034.8	3013.2	3024.0	3020.4	3031.2	3031.2	3011.4	3006.1	3007.9	2986.3	2979.1
5°	3061.7	3036.6	3042.0	3034.8	3045.6	3054.5	3045.6	3045.6	3056.3	3040.2	3031.2
7.5°	3122.8	3094.1	3094.1	3085.1	3097.6	3104.8	3097.6	3108.4	3128.2	3112.0	3103.0
10°	3219.8	3185.6	3187.4	3176.7	3182.0	3178.5	3149.7	3140.7	3146.1	3131.8	3124.6
12.5°	3345.5	3298.8	3298.8	3277.2	3264.6	3226.9	3167.7	3146.1	3149.7	3137.1	3131.8
15°	3465.8	3422.7	3413.7	3370.6	3313.1	3243.1	3189.2	3174.9	3178.5	3165.9	3156.9
17.5°	3607.6	3552.0	3519.6	3440.6	3334.7	3262.9	3209.0	3174.9	3146.1	3117.4	3110.2
20°	3738.7	3668.7	3609.4	3487.3	3358.0	3259.3	3158.7	3074.3	3004.3	2966.6	2957.6
22.5°	3873.4	3783.6	3679.5	3519.6	3356.2	3194.6	3009.7	2882.2	2778.0	2722.3	2733.1
25°	4000.9	3887.8	3745.9	3550.2	3298.8	3051.0	2799.6	2609.2	2490.7	2447.6	2435.0
27.5°	4106.8	3966.8	3807.0	3535.8	3180.2	2844.4	2512.2	2300.3	2185.4	2136.9	2124.4
30°	4225.4	4067.3	3895.0	3469.4	2993.5	2555.3	2187.2	2014.8	1932.2	1885.5	1887.3
32.5°	4361.8	4196.6	4018.9	3341.9	2754.7	2242.9	1919.6	1801.1	1734.7	1688.0	1680.8
35°	4545.0	4381.6	4101.5	3149.7	2451.2	1955.6	1736.5	1639.5	1556.9	1495.8	1483.3
37.5°	4771.3	4659.9	4110.4	2892.9	2126.2	1758.0	1605.4	1501.2	1400.7	1319.9	1310.9
40°	5159.1	5031.7	4036.8	2571.5	1849.6	1630.5	1495.8	1375.5	1258.8	1169.0	1156.5
42.5°	5712.2	5450.1	3878.8	2208.8	1641.3	1530.0	1391.7	1239.1	1120.5	1057.7	1048.7
45°	6416.2	5916.9	3641.8	1867.6	1486.9	1431.2	1282.2	1122.3	1059.5	1014.6	1005.6
47.5°	7278.1	6461.1	3368.8	1601.8	1366.6	1341.4	1170.8	1082.8	1027.2	989.5	980.5
50°	8308.9	7154.2	3144.3	1393.5	1258.8	1237.3	1134.9	1059.5	1014.6	984.1	976.9
52.5°	9485.1	7924.6	3034.8	1244.4	1165.4	1143.9	1122.3	1054.1	1016.4	993.0	984.1
55°	10706.2	8736.3	2932.4	1129.5	1086.4	1099.0	1124.1	1072.1	1043.3	1012.8	1003.8
57.5°	11886.0	9497.6	2681.0	1039.7	1029.0	1077.4	1133.1	1090.0	1055.9	1025.4	1014.6
60°	12699.4	9914.3	2255.4	967.9	985.9	1050.5	1109.8	1063.1	1020.0	1007.4	1002.0
62.5°	12918.5	9864.0	1750.8	894.3	933.8	991.2	1048.7	1018.2	973.3	993.0	994.8
65°	12406.7	9325.3	1314.5	822.4	865.5	914.0	985.9	973.3	957.1	1011.0	1012.8
67.5°	10957.6	8001.8	1002.0	759.6	795.5	854.8	966.1	1018.2	1021.8	1090.0	1082.8
70°	8290.9	5978.0	784.7	700.3	741.6	854.8	1029.0	1052.3	1009.2	1072.1	1057.7
72.5°	5732.0	3945.2	668.0	648.3	675.2	815.3	1027.2	1027.2	980.5	980.5	953.5
75°	3560.9	2320.1	581.8	581.8	581.8	712.9	998.4	946.4	863.7	826.0	804.5
77.5°	1758.0	1127.7	488.4	506.4	486.6	596.2	815.3	774.0	723.7	684.2	669.8
80°	750.6	563.9	395.1	414.8	391.5	448.9	646.5	637.5	589.0	536.9	520.8
82.5°	344.8	290.9	316.0	325.0	285.5	337.6	472.3	472.3	445.3	373.5	346.6
85°	147.3	154.4	219.1	219.1	179.6	190.3	253.2	240.6	215.5	176.0	161.6
87.5°	50.3	75.4	111.3	97.0	37.7	16.2	9.0	3.6	0.0	0.0	0.0
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)