

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: P638826

Luminaire Tested: GWS-SA4F-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21492.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

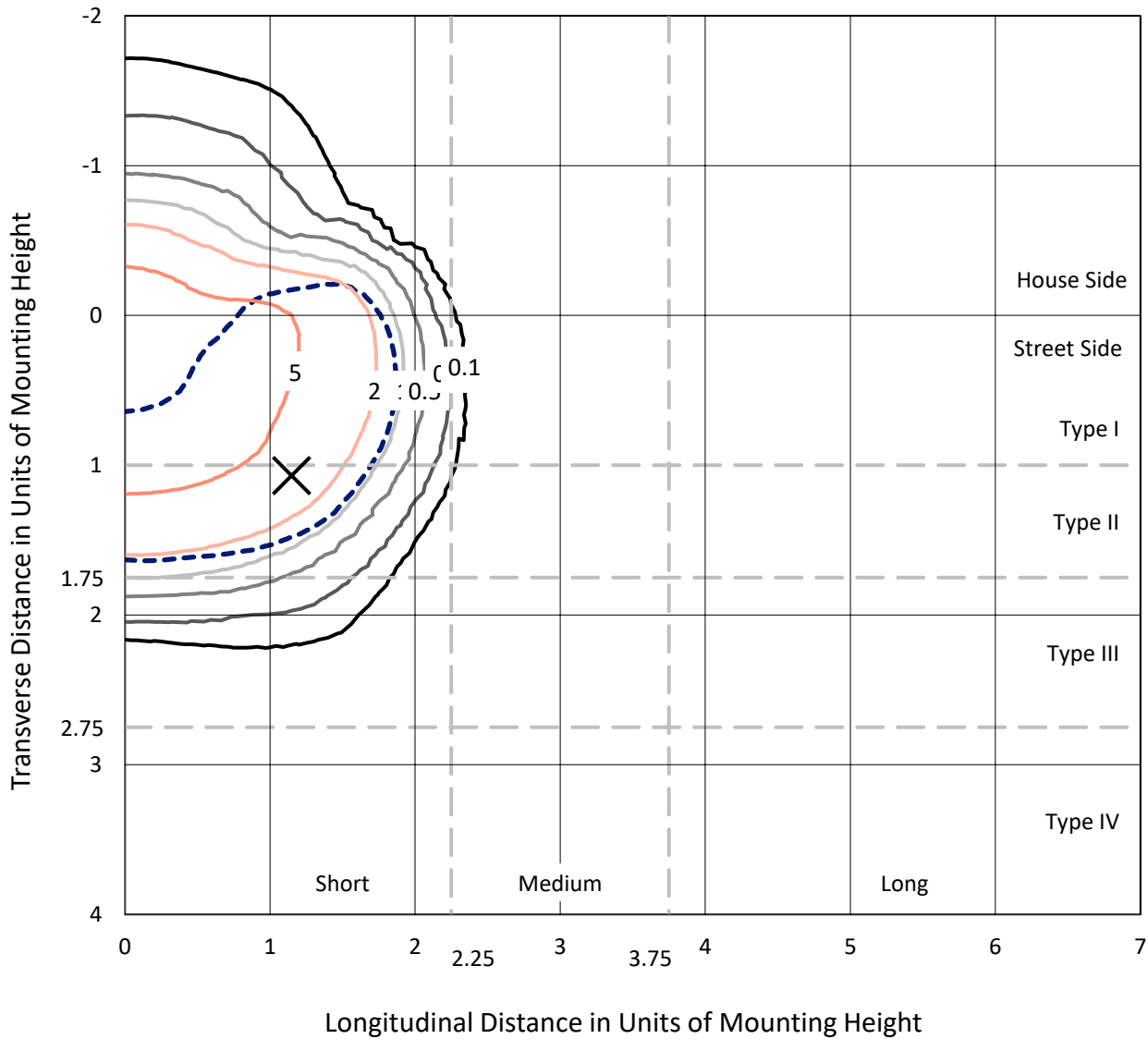
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

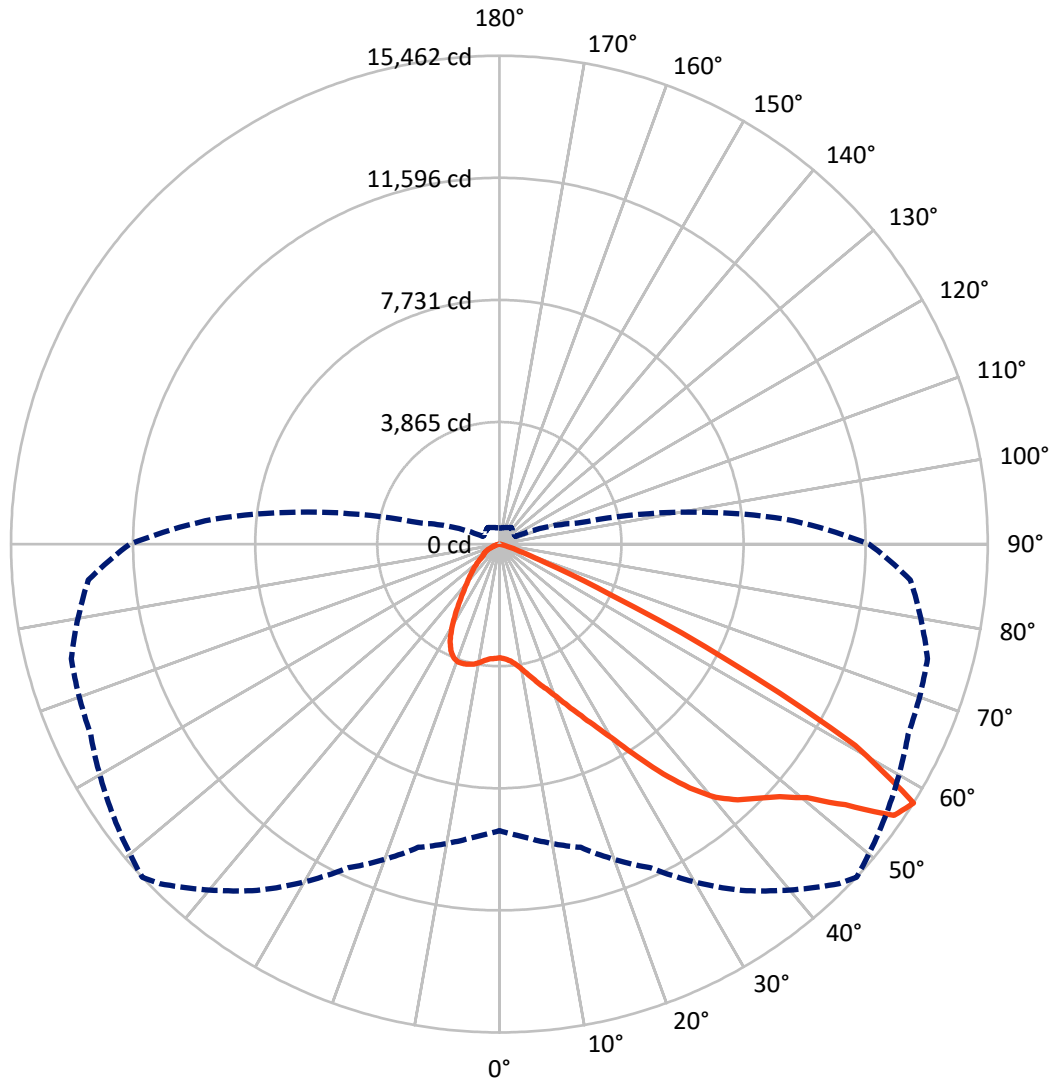
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4662.7	0.0	4662.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16829.4	0.0	16829.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	21492.1	0.0	21492.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	1.7
10°-20°	1207.8	5.6
20°-30°	2242.5	10.4
30°-40°	3589.9	16.7
40°-50°	5247.6	24.4
50°-60°	6476.5	30.1
60°-70°	2164.1	10.1
70°-80°	201.7	0.9
80°-90°	4.2	0.0
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°	21492.1	100.0
0°-180°	21492.1	100.0

Coefficient of Utilization



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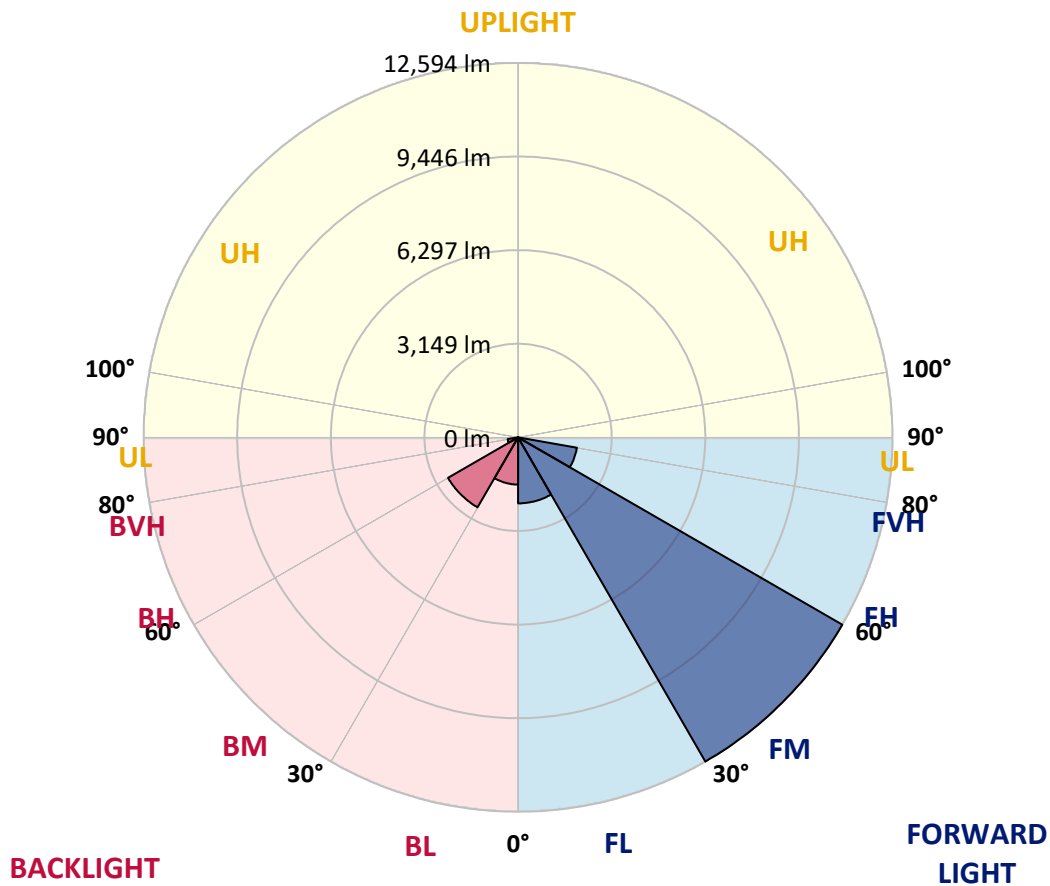
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2221.1	10.3			
FM (30°-60°)	12594.2	58.6			
FH (60°-80°)	2011.2	9.4			G2/5000
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1587.1	7.4	B3/2500		
BM (30°-60°)	2719.8	12.7	B3/5000		
BH (60°-80°)	354.5	1.6	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
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°	47°	55°	65°	75°	85°
0°	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8
2.5°	3635.2	3632.7	3630.2	3645.2	3640.2	3637.7	3642.7	3642.7	3642.7	3627.7	3597.8
5°	3722.6	3722.6	3720.1	3735.0	3722.6	3715.1	3717.6	3717.6	3707.6	3680.1	3642.7
7.5°	3859.8	3854.8	3849.8	3864.8	3852.3	3849.8	3854.8	3839.8	3822.4	3777.4	3725.0
10°	4056.9	4056.9	4049.4	4064.4	4054.4	4049.4	4049.4	4039.4	4007.0	3937.1	3859.8
12.5°	4328.8	4316.4	4298.9	4286.4	4281.4	4278.9	4281.4	4266.5	4231.5	4141.7	4034.4
15°	4625.7	4615.8	4588.3	4568.4	4540.9	4535.9	4550.9	4538.4	4503.5	4381.2	4229.0
17.5°	5000.0	5012.5	4942.6	4900.2	4820.4	4815.4	4820.4	4840.3	4815.4	4658.2	4436.1
20°	5319.4	5329.3	5276.9	5247.0	5174.6	5142.2	5152.2	5184.6	5157.2	4972.5	4663.2
22.5°	5661.2	5673.6	5618.8	5556.4	5523.9	5523.9	5561.4	5606.3	5568.9	5326.8	4922.6
25°	6070.4	6080.3	6035.4	5953.1	5895.7	5968.1	6022.9	6142.7	6080.3	5751.0	5229.5
27.5°	6539.4	6541.9	6477.0	6392.2	6362.3	6497.0	6551.9	6736.5	6711.6	6227.5	5553.9
30°	7040.9	7043.4	7028.4	6971.1	6943.6	7120.8	7195.6	7462.6	7445.1	6818.9	5995.5
32.5°	7562.4	7562.4	7589.8	7584.8	7617.3	7906.7	8026.4	8330.8	8313.4	7542.4	6544.4
35°	8086.3	8088.8	8136.2	8256.0	8390.7	8774.9	8932.1	9301.4	9261.5	8408.2	7245.5
37.5°	8682.6	8657.7	8722.5	8902.2	9201.6	9645.7	9795.4	10147.2	10102.3	9293.9	8161.2
40°	9401.2	9356.3	9356.3	9565.9	9905.2	10416.7	10543.9	10718.6	10566.4	10010.0	9059.4
42.5°	10194.6	10152.2	10097.3	10281.9	10566.4	10965.6	11070.3	11022.9	10898.2	10686.1	10082.3
45°	10998.0	10933.1	10970.5	11082.8	11247.5	11437.1	11477.0	11257.5	11200.1	11260.0	10928.1
47.5°	11609.3	11564.4	11656.7	11813.9	11948.6	11976.0	11948.6	11644.2	11639.2	11851.3	11514.5
50°	11813.9	11818.8	12073.3	12417.7	12634.7	12657.2	12619.7	12270.4	12223.0	12285.4	11831.3
52.5°	11833.8	11853.8	12225.5	12881.7	13473.0	13742.5	13712.6	13335.8	12871.7	12804.4	12310.4
55°	11352.3	11469.5	11988.5	12946.6	14204.1	15064.9	15164.7	14443.6	13755.0	13697.6	13340.8
57.5°	9074.3	9313.9	9940.1	11304.9	13388.2	15202.1	15461.6	14942.6	14276.4	14031.9	13063.9
60°	5424.1	5721.1	6322.3	7996.5	10189.6	12495.0	12941.6	13014.0	12707.1	12001.0	10022.4
62.5°	2327.8	2302.9	3043.9	4326.3	6060.4	7941.6	8143.7	8458.1	8725.0	7986.5	6082.8
65°	798.4	868.3	1207.6	1951.1	3033.9	3687.6	3867.3	4149.2	4528.4	3737.5	2228.0
67.5°	494.0	524.0	696.1	1152.7	1636.7	1611.8	1531.9	1487.0	1447.1	990.5	611.3
70°	359.3	384.2	489.0	793.4	1100.3	773.5	671.2	543.9	603.8	556.4	434.1
72.5°	242.0	262.0	336.8	481.5	563.9	376.7	349.3	396.7	479.0	456.6	354.3
75°	144.7	157.2	192.1	234.5	229.5	194.6	197.1	279.4	366.8	341.8	252.0
77.5°	99.8	104.8	127.2	152.2	112.3	59.9	54.9	77.3	124.8	124.8	84.8
80°	25.0	32.4	32.4	20.0	17.5	15.0	15.0	22.5	34.9	25.0	12.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0	5.0	5.0
85°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0	5.0
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0
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°	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8	3597.8
2.5°	3615.3	3585.3	3605.3	3600.3	3615.3	3620.3	3597.8	3592.8	3595.3	3565.4	3555.4
5°	3650.2	3615.3	3625.2	3615.3	3632.7	3647.7	3640.2	3650.2	3662.7	3640.2	3630.2
7.5°	3725.0	3690.1	3687.6	3672.7	3697.6	3707.6	3705.1	3732.5	3757.5	3742.5	3727.5
10°	3854.8	3807.4	3802.4	3789.9	3797.4	3804.9	3777.4	3782.4	3804.9	3787.4	3779.9
12.5°	4014.5	3957.1	3944.6	3914.7	3914.7	3877.2	3817.4	3804.9	3822.4	3809.9	3797.4
15°	4186.6	4109.3	4089.3	4036.9	3987.0	3917.2	3854.8	3839.8	3852.3	3837.3	3827.3
17.5°	4378.7	4291.4	4226.5	4134.2	4024.4	3942.1	3872.3	3839.8	3819.9	3789.9	3787.4
20°	4568.4	4453.6	4343.8	4196.6	4051.9	3927.1	3812.4	3727.5	3655.2	3610.3	3592.8
22.5°	4787.9	4618.3	4441.1	4234.0	4026.9	3837.3	3635.2	3490.5	3365.8	3323.3	3303.4
25°	5022.4	4802.9	4538.4	4269.0	3942.1	3637.7	3363.3	3148.7	2984.0	2929.1	2906.7
27.5°	5281.9	4980.0	4638.2	4261.5	3767.5	3353.3	2989.0	2722.1	2559.9	2510.0	2527.4
30°	5611.3	5209.6	4763.0	4184.1	3505.5	2954.1	2527.4	2302.9	2180.6	2133.2	2135.7
32.5°	6050.4	5538.9	4945.1	4019.5	3168.7	2500.0	2125.7	1961.1	1878.7	1816.4	1811.4
35°	6679.1	6040.4	5114.8	3755.0	2759.5	2095.8	1823.9	1694.1	1579.3	1507.0	1519.5
37.5°	7432.6	6671.6	5207.1	3398.2	2300.4	1781.4	1596.8	1464.6	1334.8	1227.5	1240.0
40°	8325.8	7497.5	5199.6	2929.1	1881.2	1566.9	1407.2	1252.5	1090.3	993.0	1003.0
42.5°	9321.3	8278.4	5037.4	2432.6	1559.4	1392.2	1225.0	1030.4	873.3	813.4	815.9
45°	10184.6	8912.2	4753.0	1918.7	1312.4	1222.6	1035.4	835.8	766.0	723.6	721.1
47.5°	10823.3	9376.2	4346.3	1509.5	1112.8	1067.9	850.8	748.5	693.6	658.7	653.7
50°	11180.1	9538.4	3897.2	1182.6	940.6	905.7	761.0	678.6	641.2	618.8	613.8
52.5°	11659.2	9733.0	3575.3	933.1	788.4	741.0	701.1	631.2	606.3	588.8	581.3
55°	12417.7	10109.8	3295.9	741.0	656.2	646.2	661.2	603.8	588.8	561.4	551.4
57.5°	11704.1	9081.8	2559.9	573.9	553.9	591.3	638.7	576.3	538.9	514.0	504.0
60°	8236.0	6037.9	1287.4	461.6	494.0	553.9	601.3	521.5	484.0	489.0	484.0
62.5°	4540.9	3021.5	578.8	386.7	429.1	489.0	514.0	451.6	426.6	469.1	476.5
65°	1484.5	1027.9	334.3	299.4	339.3	399.2	444.1	429.1	424.2	474.1	489.0
67.5°	456.6	339.3	227.0	214.6	234.5	294.4	374.3	464.1	499.0	514.0	521.5
70°	341.8	267.0	194.6	182.1	192.1	224.6	316.9	386.7	364.3	366.8	361.8
72.5°	274.5	212.1	167.2	159.7	159.7	154.7	167.2	209.6	237.0	249.5	249.5
75°	192.1	149.7	127.2	117.3	92.3	74.9	67.4	67.4	59.9	57.4	54.9
77.5°	64.9	54.9	49.9	39.9	27.4	22.5	20.0	17.5	12.5	7.5	5.0
80°	10.0	7.5	5.0	5.0	5.0	2.5	2.5	2.5	0.0	0.0	0.0
82.5°	5.0	5.0	5.0	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0
85°	5.0	5.0	5.0	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	2.5	2.5	2.5	0.0	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)