

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: P635838

Luminaire Tested: GWS-SA3E-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21604.5 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

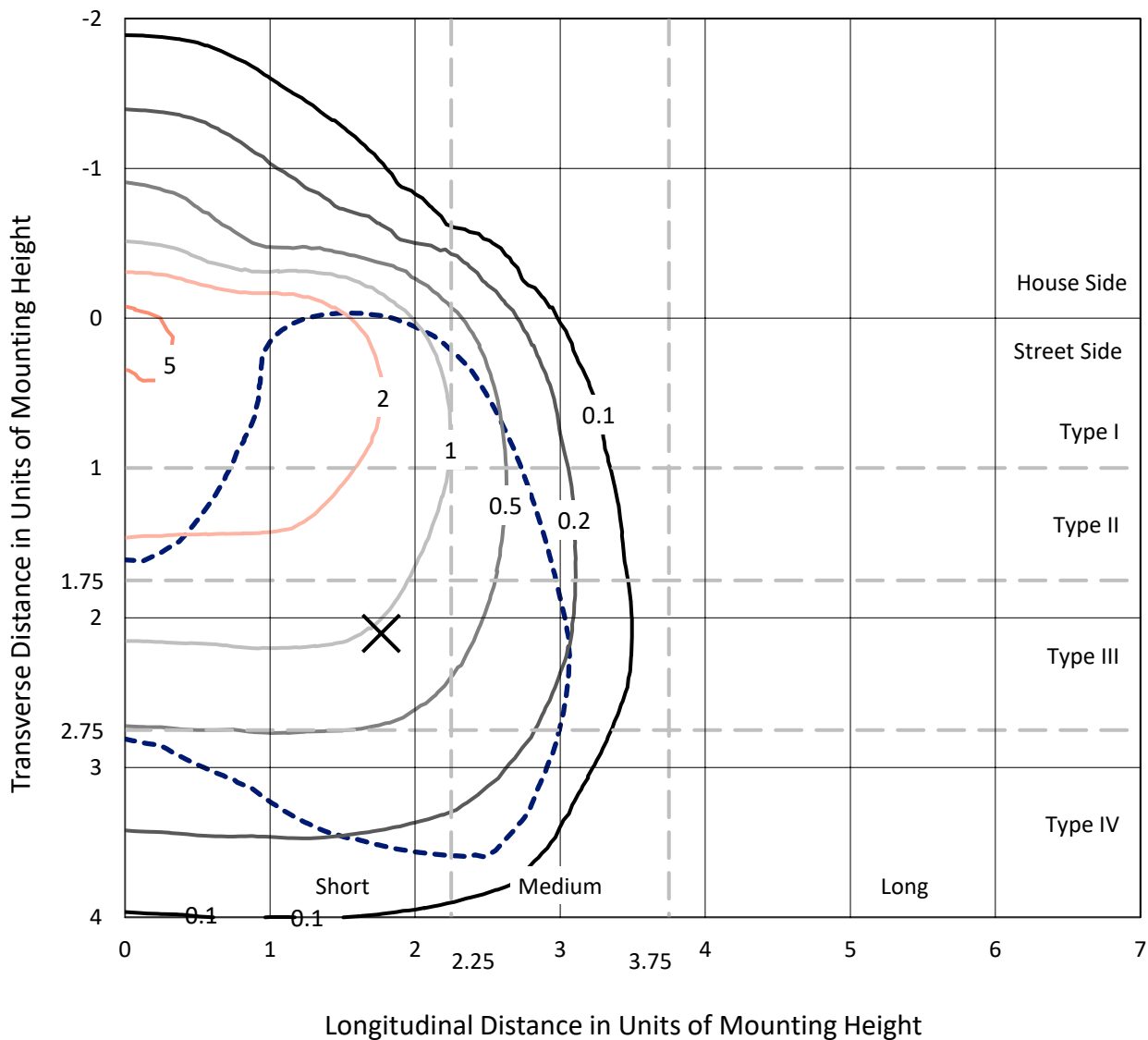
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

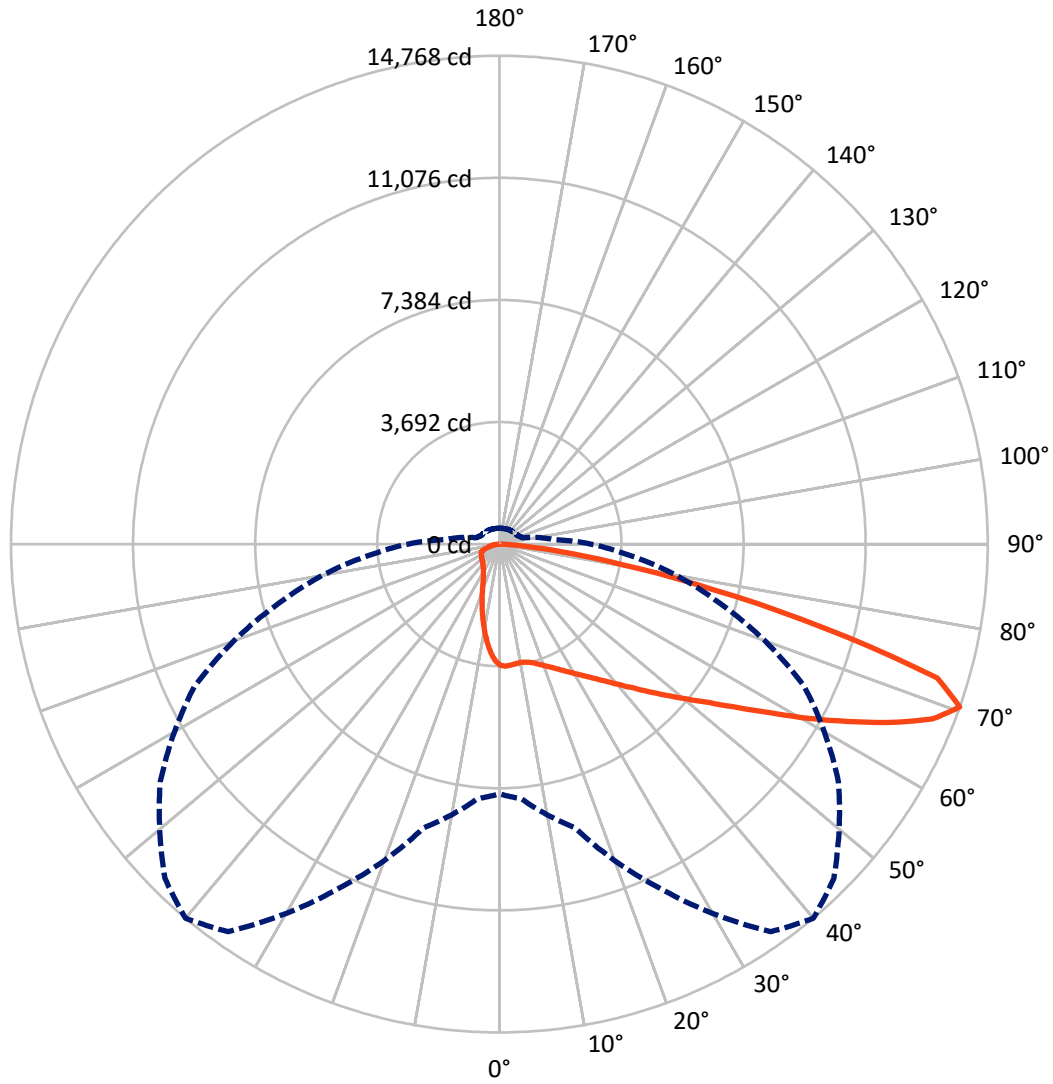
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3327.6	0.0	3327.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	18276.9	0.0	18276.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	21604.5	0.0	21604.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	1.5
10°-20°	844.8	3.9
20°-30°	1326.5	6.1
30°-40°	1994.4	9.2
40°-50°	3078.4	14.2
50°-60°	4571.7	21.2
60°-70°	5762.5	26.7
70°-80°	3332.4	15.4
80°-90°	369.8	1.7
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°	21604.5	100.0
0°-180°	21604.5	100.0

Coefficient of Utilization



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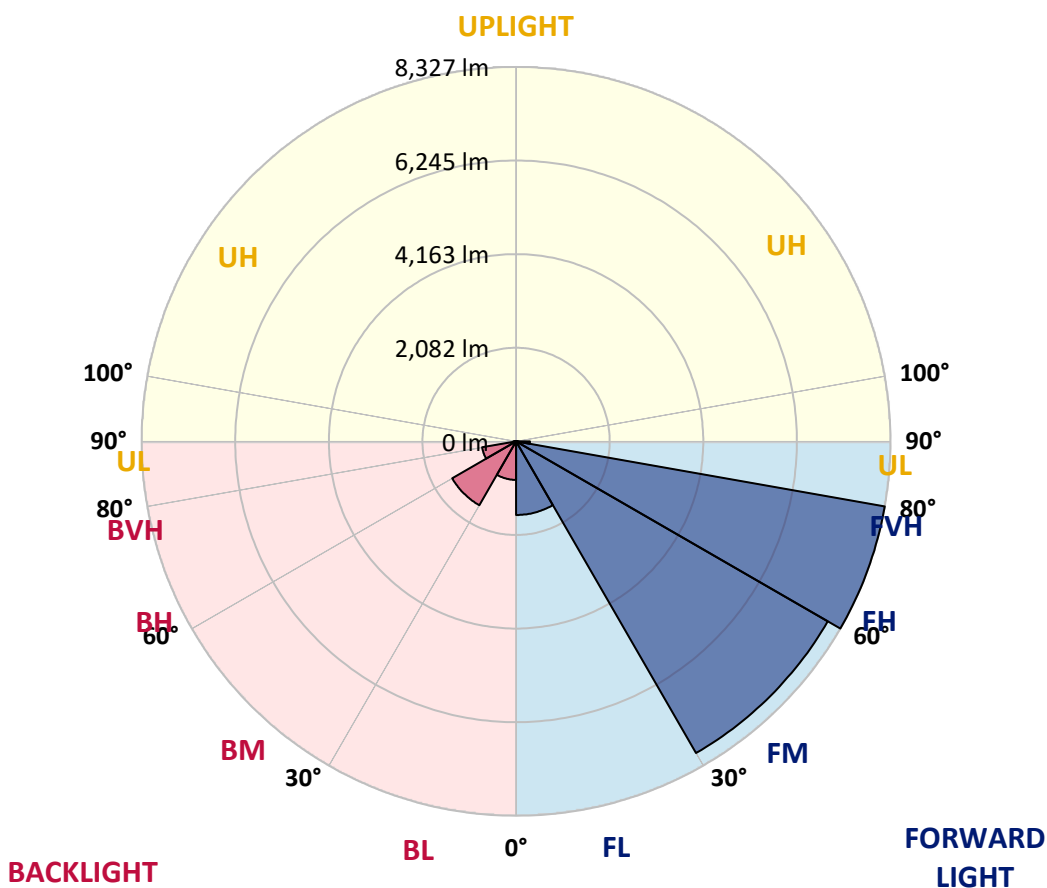
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.8	7.6			
FM (30°-60°)	8004.2	37.0			
FH (60°-80°)	8326.9	38.5			G4/12000
FVH (80°-90°)	308.0	1.4			G3/500
BL (0°-30°)	857.6	4.0	B2/1000		
BM (30°-60°)	1640.2	7.6	B2/2500		
BH (60°-80°)	768.0	3.6	B2/1000		G2/1000
BVH (80°-90°)	61.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7
2.5°	3691.3	3697.7	3702.6	3709.0	3705.8	3696.1	3704.2	3704.2	3686.4	3667.1	3649.3
5°	3696.1	3704.2	3702.6	3700.9	3688.0	3671.9	3671.9	3662.2	3631.6	3601.0	3571.9
7.5°	3686.4	3684.8	3683.2	3678.4	3663.9	3646.1	3642.9	3623.5	3583.2	3541.3	3499.4
10°	3642.9	3641.3	3646.1	3657.4	3654.2	3638.1	3638.1	3620.3	3573.5	3521.9	3467.1
12.5°	3607.4	3607.4	3626.8	3657.4	3668.7	3662.2	3663.9	3651.0	3597.7	3536.5	3472.0
15°	3612.3	3613.9	3655.8	3705.8	3726.7	3721.9	3723.5	3709.0	3649.3	3588.1	3501.0
17.5°	3644.5	3652.6	3725.1	3794.5	3821.9	3815.4	3804.2	3780.0	3712.2	3642.9	3536.5
20°	3712.2	3725.1	3818.7	3905.7	3938.0	3923.5	3904.1	3855.8	3781.6	3705.8	3575.2
22.5°	3846.1	3854.1	3957.3	4042.8	4068.6	4050.9	4012.2	3942.8	3857.4	3778.3	3621.9
25°	4034.8	4044.4	4142.8	4221.8	4215.4	4194.4	4141.2	4055.7	3954.1	3870.3	3689.7
27.5°	4258.9	4275.0	4371.8	4434.7	4392.8	4362.1	4302.4	4199.2	4084.7	4009.0	3792.9
30°	4504.0	4510.5	4592.7	4655.6	4591.1	4549.2	4476.6	4365.3	4262.1	4205.7	3947.7
32.5°	4741.1	4747.5	4818.5	4854.0	4786.2	4755.6	4692.7	4575.0	4502.4	4471.8	4178.3
35°	4991.0	4989.4	5047.5	5078.1	5008.8	4995.9	4931.4	4841.1	4828.2	4868.5	4515.3
37.5°	5241.0	5226.5	5257.1	5297.4	5258.7	5271.6	5229.7	5199.1	5249.1	5353.9	4963.6
40°	5441.0	5441.0	5473.2	5523.2	5536.1	5592.5	5568.3	5608.7	5769.9	6019.9	5518.4
42.5°	5618.3	5620.0	5687.7	5765.1	5858.6	5945.7	5965.1	6069.9	6403.7	6795.5	6215.0
45°	5803.8	5805.4	5897.3	6010.2	6208.6	6374.7	6413.4	6648.8	7126.1	7603.5	6971.3
47.5°	6018.3	6000.5	6127.9	6316.6	6598.8	6837.5	6937.5	7271.3	7874.4	8461.4	7684.1
50°	6260.2	6223.1	6365.0	6690.7	7039.1	7366.4	7534.1	7916.3	8677.5	9253.2	8354.9
52.5°	6532.7	6511.7	6660.1	7056.8	7589.0	7966.3	8193.7	8695.2	9458.0	10041.7	8887.1
55°	6871.3	6821.3	7035.8	7540.6	8234.0	8714.6	8983.9	9466.0	10311.0	10757.7	9293.5
57.5°	7242.2	7187.4	7474.5	8145.3	9072.6	9599.9	9936.9	10333.6	11114.1	11306.0	9532.1
60°	7642.2	7624.4	7964.7	8854.9	10072.4	10685.2	10928.7	11288.3	11812.4	11623.7	9472.5
62.5°	8008.2	8001.8	8496.9	9624.1	11131.9	11805.9	11999.4	12094.6	12315.5	11602.7	8998.4
65°	8393.6	8448.5	9117.7	10515.8	12346.2	13007.3	13088.0	12846.1	12484.8	11052.8	8027.6
67.5°	8442.0	8548.5	9508.0	11351.2	13497.6	14121.6	14057.1	13131.5	11984.9	9522.5	6292.4
70°	7550.2	7735.7	8885.5	11478.6	14308.7	14768.3	14302.3	12517.1	10170.7	6898.8	3957.3
72.5°	6308.5	6468.2	7484.1	9788.6	13262.1	13847.5	13217.0	10594.9	7187.4	3957.3	2015.8
75°	4910.4	5095.9	6032.8	7780.9	9928.9	10162.7	9846.6	7389.0	3950.9	1632.0	916.0
77.5°	2996.2	3130.1	3859.0	5271.6	6947.1	6597.2	5590.9	4142.8	1733.6	782.1	566.0
80°	1325.6	1407.8	1901.3	2831.7	4013.8	3794.5	2991.4	1769.0	948.2	496.7	395.1
82.5°	711.2	764.4	936.9	1120.8	1762.6	1843.2	1494.9	1019.2	509.6	283.8	225.8
85°	312.8	343.5	425.7	406.4	578.9	569.3	574.1	699.9	243.5	130.6	146.7
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	17.7	93.5	24.2	38.7	33.9
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°	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7	3668.7
2.5°	3630.0	3601.0	3592.9	3583.2	3565.5	3534.8	3512.3	3486.5	3475.2	3462.3	3463.9
5°	3539.7	3504.2	3470.3	3426.8	3372.0	3310.7	3268.8	3220.4	3194.6	3170.4	3176.8
7.5°	3462.3	3407.4	3338.1	3246.2	3147.8	3038.2	2949.5	2880.1	2833.4	2801.1	2817.2
10°	3413.9	3349.4	3228.4	3078.5	2912.4	2744.7	2617.3	2497.9	2423.8	2365.7	2362.5
12.5°	3404.2	3320.4	3144.6	2926.9	2686.6	2462.5	2275.4	2114.1	2015.8	1943.2	1970.6
15°	3413.9	3307.5	3072.0	2786.6	2483.4	2180.3	1948.0	1762.6	1644.9	1578.7	1573.9
17.5°	3425.2	3294.6	2989.8	2635.0	2270.6	1923.8	1654.5	1457.8	1336.9	1270.7	1272.4
20°	3434.9	3275.2	2893.0	2468.9	2054.5	1685.2	1406.2	1219.1	1111.1	1062.7	1070.8
22.5°	3451.0	3255.9	2789.8	2291.5	1833.5	1454.6	1209.5	1057.9	993.4	961.1	962.7
25°	3481.6	3244.6	2683.4	2098.0	1615.8	1270.7	1074.0	972.4	932.1	912.7	911.1
27.5°	3544.5	3254.3	2572.1	1910.9	1419.1	1130.4	986.9	920.8	893.4	880.5	878.9
30°	3649.3	3293.0	2475.4	1720.7	1249.8	1020.8	927.3	886.9	870.8	859.5	857.9
32.5°	3809.0	3365.5	2370.5	1543.3	1112.7	940.2	880.5	859.5	848.2	841.8	841.8
35°	4050.9	3497.8	2267.3	1388.5	1006.3	877.3	843.4	835.3	825.7	822.4	825.7
37.5°	4399.2	3709.0	2173.8	1253.0	930.5	828.9	803.1	806.3	798.2	803.1	807.9
40°	4841.1	3991.2	2094.8	1141.7	874.0	793.4	767.6	778.9	774.1	778.9	787.0
42.5°	5400.6	4341.2	2035.1	1054.6	833.7	764.4	740.2	751.5	748.3	754.7	762.8
45°	6024.7	4802.4	2007.7	993.4	804.7	743.4	717.6	725.7	722.5	727.3	735.4
47.5°	6623.0	5221.6	2031.9	957.9	780.5	725.7	698.3	701.5	699.9	698.3	703.1
50°	7139.0	5555.4	2101.2	946.6	764.4	707.9	682.1	683.7	678.9	669.2	672.5
52.5°	7559.9	5823.1	2143.2	946.6	756.3	688.6	664.4	666.0	656.3	643.4	645.0
55°	7837.3	5931.2	2109.3	945.0	753.1	672.5	646.7	648.3	638.6	622.5	624.1
57.5°	7916.3	5826.4	1967.4	927.3	749.9	659.6	628.9	632.1	625.7	608.0	608.0
60°	7695.4	5442.6	1707.8	886.9	741.8	651.5	616.0	620.9	617.6	599.9	599.9
62.5°	7116.5	4760.4	1398.1	825.7	719.2	641.8	604.7	614.4	622.5	612.8	611.2
65°	6032.8	3813.8	1136.9	757.9	690.2	625.7	588.6	612.8	630.5	643.4	643.4
67.5°	4526.6	2730.2	927.3	687.0	646.7	593.4	567.6	590.2	603.1	611.2	616.0
70°	2759.2	1606.2	730.5	604.7	583.8	545.1	525.7	503.1	485.4	482.2	483.8
72.5°	1349.8	919.2	593.4	514.4	498.3	462.8	419.3	409.6	401.5	396.7	395.1
75°	743.4	640.2	490.2	427.3	398.3	354.8	345.1	329.0	325.7	319.3	320.9
77.5°	525.7	504.7	404.8	346.7	303.2	280.6	285.4	274.1	274.1	269.3	267.7
80°	395.1	396.7	311.2	253.2	224.2	216.1	220.9	220.9	217.7	216.1	214.5
82.5°	250.0	282.2	209.6	162.9	159.6	161.3	159.6	158.0	161.3	156.4	154.8
85°	172.5	203.2	127.4	96.8	96.8	95.1	98.4	96.8	100.0	95.1	95.1
87.5°	38.7	90.3	46.8	29.0	30.6	29.0	30.6	32.3	35.5	37.1	37.1
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)