

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: P636387

Luminaire Tested: GWS-SA3F-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19436.3 lumens
Efficiency: N/A
Efficacy: 106.1 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

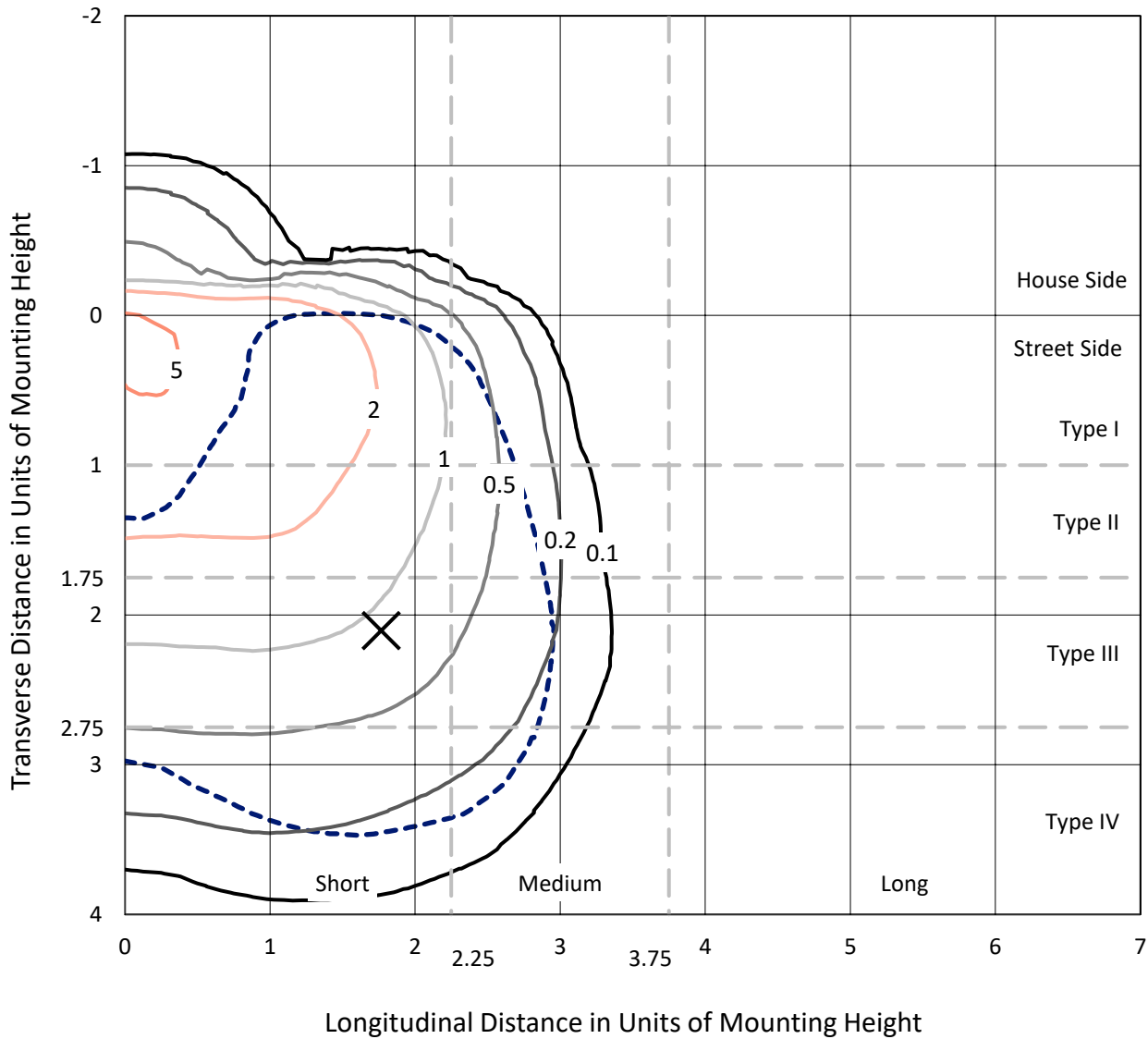
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

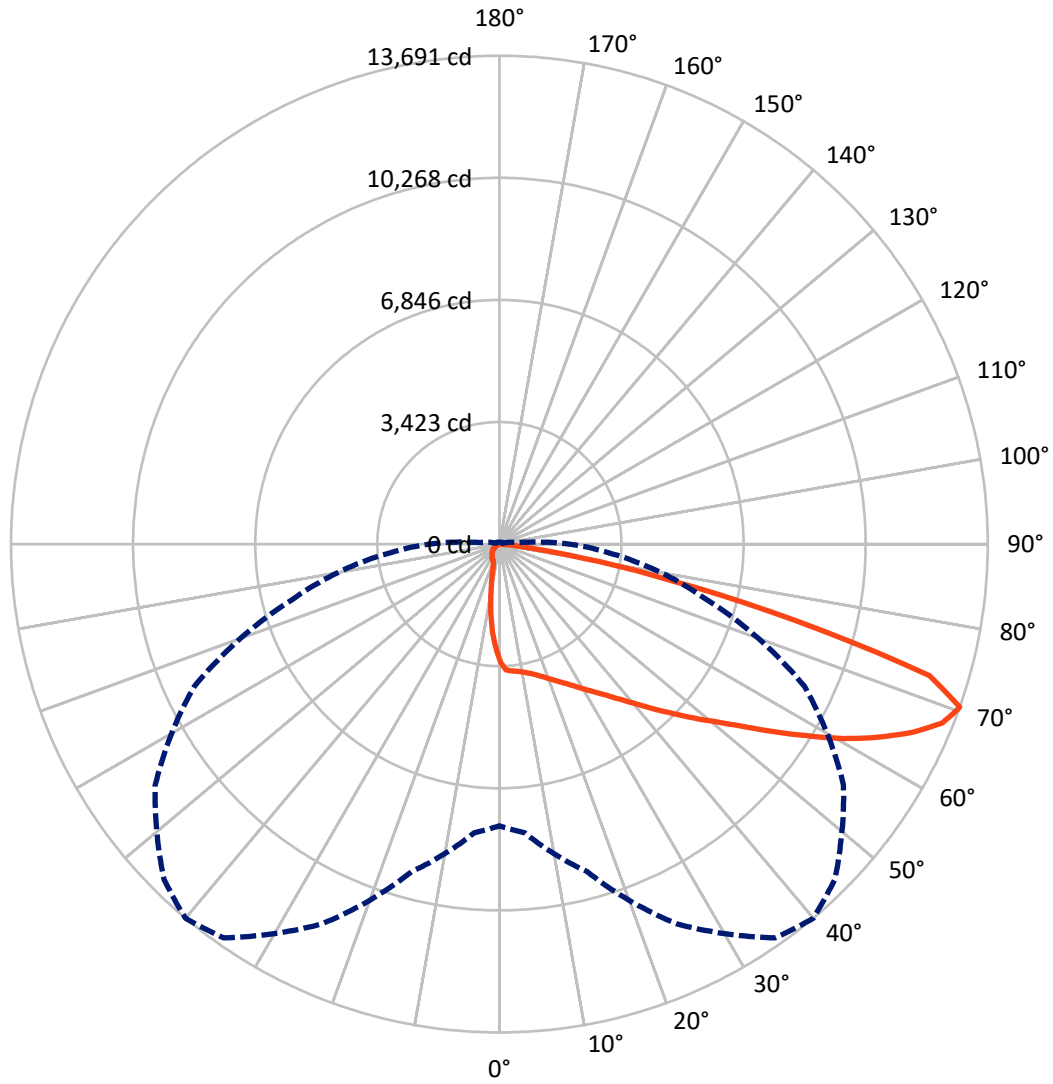
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1589.4	0.0	1589.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17846.9	0.0	17846.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	19436.3	0.0	19436.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.4
10°-20°	707.0	3.6
20°-30°	1183.3	6.1
30°-40°	1858.5	9.6
40°-50°	2939.7	15.1
50°-60°	4288.2	22.1
60°-70°	5315.9	27.4
70°-80°	2689.5	13.8
80°-90°	175.6	0.9
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°	19436.3	100.0
0°-180°	19436.3	100.0

Coefficient of Utilization



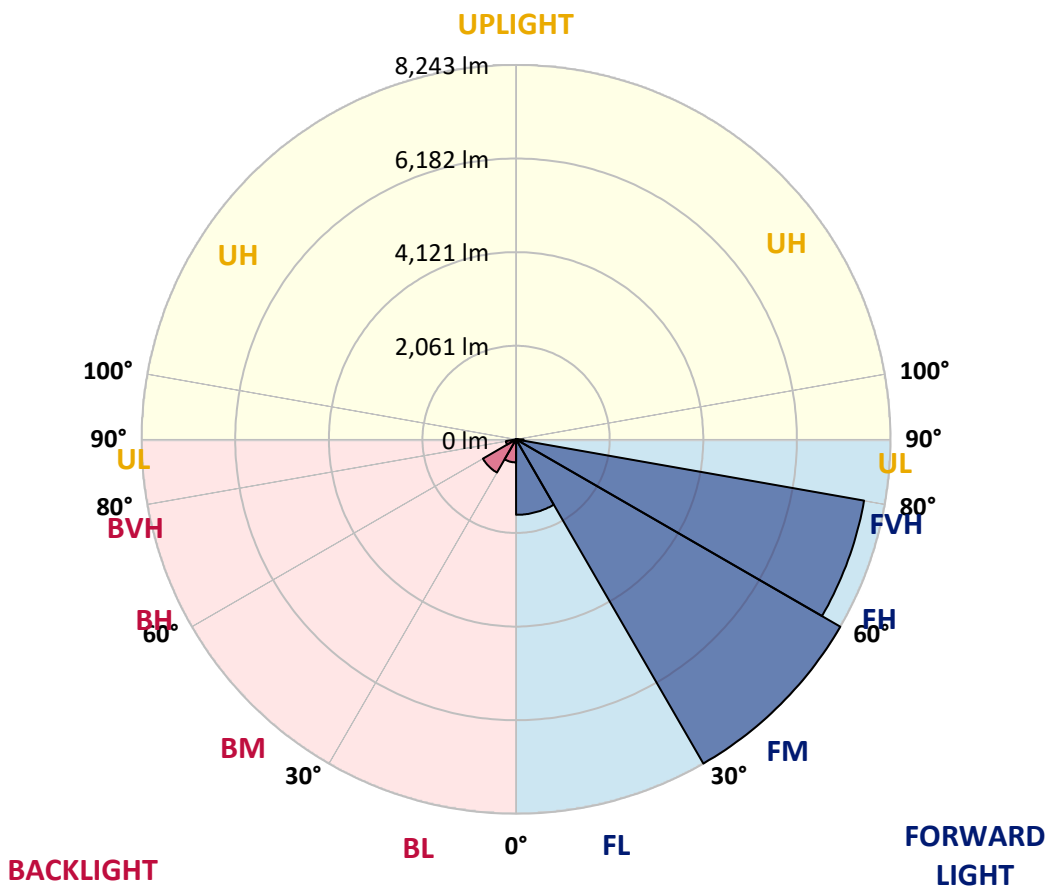
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.5	8.5			
FM (30°-60°)	8242.7	42.4			
FH (60°-80°)	7778.8	40.0			G4/12000
FVH (80°-90°)	164.0	0.8			G2/225
BL (0°-30°)	507.6	2.6	B2/1000		
BM (30°-60°)	843.6	4.3	B1/1000		
BH (60°-80°)	226.6	1.2	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			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°	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1
2.5°	3545.7	3558.1	3556.3	3561.6	3549.2	3529.8	3526.2	3499.7	3452.0	3391.8	3324.6
5°	3618.2	3632.3	3621.7	3616.4	3593.4	3572.2	3566.9	3538.6	3483.8	3402.4	3285.7
7.5°	3680.1	3683.6	3676.5	3664.2	3630.6	3602.3	3582.8	3543.9	3478.5	3397.1	3262.7
10°	3690.7	3688.9	3692.5	3694.2	3673.0	3648.3	3632.3	3579.3	3496.2	3409.5	3264.5
12.5°	3678.3	3678.3	3701.3	3727.8	3727.8	3715.5	3699.5	3651.8	3554.5	3452.0	3299.9
15°	3694.2	3699.5	3743.7	3793.3	3809.2	3796.8	3789.7	3740.2	3639.4	3526.2	3363.5
17.5°	3750.8	3756.1	3826.9	3901.1	3920.6	3906.4	3892.3	3842.8	3734.9	3611.1	3436.0
20°	3833.9	3848.1	3938.3	4033.8	4051.5	4033.8	4005.5	3936.5	3828.6	3703.1	3505.0
22.5°	3986.0	3994.9	4092.1	4192.9	4201.8	4173.5	4131.0	4035.5	3922.4	3800.3	3582.8
25°	4187.6	4200.0	4297.3	4394.5	4371.5	4329.1	4270.7	4162.9	4033.8	3915.3	3681.9
27.5°	4428.1	4442.3	4537.8	4622.7	4562.5	4513.0	4447.6	4313.2	4182.3	4074.4	3809.2
30°	4688.1	4700.5	4785.4	4861.4	4781.8	4723.5	4645.6	4507.7	4375.1	4293.7	3989.6
32.5°	4939.2	4937.4	5018.8	5080.7	4999.3	4953.4	4882.6	4742.9	4636.8	4601.4	4258.4
35°	5172.6	5172.6	5239.8	5301.7	5243.4	5218.6	5153.2	5041.8	4981.6	5024.1	4617.3
37.5°	5407.8	5395.5	5459.1	5528.1	5522.8	5524.6	5487.4	5434.4	5437.9	5588.2	5110.7
40°	5602.4	5597.1	5671.3	5761.5	5832.3	5888.8	5865.9	5885.3	5996.7	6277.9	5742.1
42.5°	5758.0	5770.4	5865.9	6009.1	6187.7	6302.7	6318.6	6398.2	6684.6	7119.7	6454.7
45°	5936.6	5938.4	6071.0	6290.3	6575.0	6757.1	6820.8	7025.9	7432.7	7993.3	7236.4
47.5°	6155.9	6134.7	6283.2	6590.9	7003.0	7271.8	7384.9	7641.4	8270.9	8845.6	7873.0
50°	6398.2	6359.2	6527.2	6946.4	7482.2	7818.2	8048.1	8423.0	9102.1	9545.9	8347.0
52.5°	6679.3	6642.2	6833.2	7354.9	8056.9	8465.4	8760.8	9139.2	9814.7	10080.0	8629.9
55°	7036.6	6999.4	7201.0	7844.7	8736.0	9266.5	9576.0	9894.3	10477.9	10474.4	8835.0
57.5°	7432.7	7381.4	7660.8	8463.7	9583.1	10134.8	10449.6	10605.2	10981.9	10780.3	8973.0
60°	7887.2	7841.2	8228.5	9201.1	10561.0	11072.1	11270.2	11206.5	11395.7	10960.7	8925.2
62.5°	8297.4	8276.2	8757.2	9982.7	11493.0	11924.5	11979.3	11701.6	11699.9	10964.2	8603.4
65°	8723.6	8764.3	9478.7	10882.9	12430.2	12720.3	12626.5	12193.3	11821.9	10531.0	7652.0
67.5°	8882.8	9001.3	9954.4	11696.3	13169.4	13395.8	13231.3	12439.1	11314.4	9073.8	5827.0
70°	7899.5	8122.4	9505.3	11742.3	13475.4	13691.1	13296.8	11777.7	9432.8	6010.9	3192.0
72.5°	6007.3	6267.3	7920.8	9614.9	12119.0	12610.6	11936.8	9595.5	6079.8	2633.2	1071.7
75°	3361.8	3642.9	5899.5	7239.9	8136.5	8585.7	8338.1	6155.9	2693.3	687.9	320.1
77.5°	1137.1	1230.8	2744.6	4479.4	5370.7	4967.5	4205.3	3057.6	990.3	261.7	169.8
80°	673.8	709.1	1022.1	2230.0	2825.9	2343.2	1849.8	1130.0	504.0	139.7	118.5
82.5°	201.6	238.7	564.1	827.6	1107.0	689.7	583.6	645.5	261.7	76.0	99.0
85°	0.0	0.0	120.3	256.4	290.0	113.2	113.2	366.1	47.7	31.8	72.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.8	5.3	7.1	15.9
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°	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1	3298.1
2.5°	3276.9	3215.0	3142.5	3073.5	3008.1	2923.2	2882.5	2833.0	2790.6	2767.6	2780.0
5°	3211.5	3114.2	2965.6	2815.3	2663.2	2520.0	2390.9	2304.3	2226.4	2185.8	2194.6
7.5°	3154.9	3024.0	2792.3	2546.5	2302.5	2056.7	1856.8	1701.2	1581.0	1531.5	1522.6
10°	3130.1	2965.6	2638.5	2284.8	1909.9	1579.2	1296.3	1124.7	1002.7	942.6	953.2
12.5°	3142.5	2935.6	2507.6	2028.4	1542.1	1156.5	886.0	725.1	638.4	603.0	594.2
15°	3177.9	2928.5	2390.9	1766.7	1190.1	808.2	611.9	546.4	528.8	525.2	525.2
17.5°	3218.5	2930.3	2270.7	1501.4	903.7	599.5	523.5	511.1	505.8	502.2	504.0
20°	3259.2	2930.3	2132.7	1232.6	679.1	518.1	498.7	489.9	484.5	482.8	482.8
22.5°	3308.7	2930.3	1978.9	983.2	544.7	491.6	475.7	470.4	465.1	463.3	461.6
25°	3368.8	2932.0	1809.1	769.3	495.2	468.6	456.3	450.9	445.6	442.1	442.1
27.5°	3455.5	2946.2	1621.6	599.5	466.9	447.4	436.8	431.5	426.2	420.9	420.9
30°	3581.1	2981.6	1411.2	495.2	440.3	424.4	413.8	410.3	405.0	399.7	397.9
32.5°	3768.5	3043.5	1193.7	443.9	415.6	399.7	387.3	383.7	378.4	373.1	371.4
35°	4030.2	3156.6	981.5	412.0	383.7	367.8	360.8	359.0	351.9	346.6	346.6
37.5°	4414.0	3340.5	778.1	380.2	357.2	344.8	336.0	332.5	325.4	320.1	318.3
40°	4882.6	3579.3	604.8	355.5	332.5	320.1	311.2	305.9	297.1	290.0	286.5
42.5°	5480.3	3871.1	477.5	328.9	309.5	297.1	290.0	279.4	267.0	256.4	254.7
45°	6102.8	4171.7	394.4	304.2	288.3	277.6	268.8	254.7	237.0	224.6	221.1
47.5°	6580.3	4359.2	344.8	277.6	265.3	256.4	245.8	228.1	206.9	192.8	189.2
50°	6921.6	4387.5	307.7	252.9	245.8	237.0	221.1	199.8	176.8	162.7	159.2
52.5°	7089.6	4260.1	277.6	229.9	224.6	215.7	196.3	173.3	148.5	134.4	130.9
55°	7165.6	4019.6	249.3	210.4	203.4	192.8	171.5	146.8	122.0	109.6	106.1
57.5°	7135.6	3664.2	224.6	191.0	182.1	169.8	146.8	120.3	100.8	88.4	86.7
60°	6912.8	3165.5	199.8	171.5	160.9	146.8	123.8	99.0	81.3	72.5	70.7
62.5°	6431.8	2546.5	175.1	148.5	141.5	127.3	106.1	81.3	67.2	61.9	60.1
65°	5446.7	1800.3	150.3	125.6	122.0	107.9	88.4	67.2	58.4	54.8	53.1
67.5°	3915.3	1094.7	127.3	107.9	104.3	92.0	74.3	58.4	53.1	51.3	51.3
70°	1968.3	518.1	100.8	88.4	88.4	76.0	63.7	53.1	51.3	49.5	49.5
72.5°	668.5	221.1	76.0	69.0	72.5	65.4	54.8	49.5	49.5	49.5	49.5
75°	228.1	116.7	53.1	49.5	53.1	53.1	47.7	47.7	49.5	49.5	49.5
77.5°	148.5	77.8	37.1	33.6	40.7	40.7	40.7	44.2	47.7	47.7	47.7
80°	122.0	42.4	24.8	23.0	30.1	30.1	33.6	40.7	44.2	44.2	44.2
82.5°	104.3	26.5	14.1	15.9	21.2	23.0	28.3	33.6	38.9	40.7	40.7
85°	70.7	14.1	10.6	12.4	14.1	17.7	23.0	28.3	31.8	35.4	35.4
87.5°	19.5	5.3	7.1	8.8	8.8	12.4	17.7	21.2	24.8	26.5	26.5
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)