

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: P633849

Luminaire Tested: GWS-SA2F-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-750-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

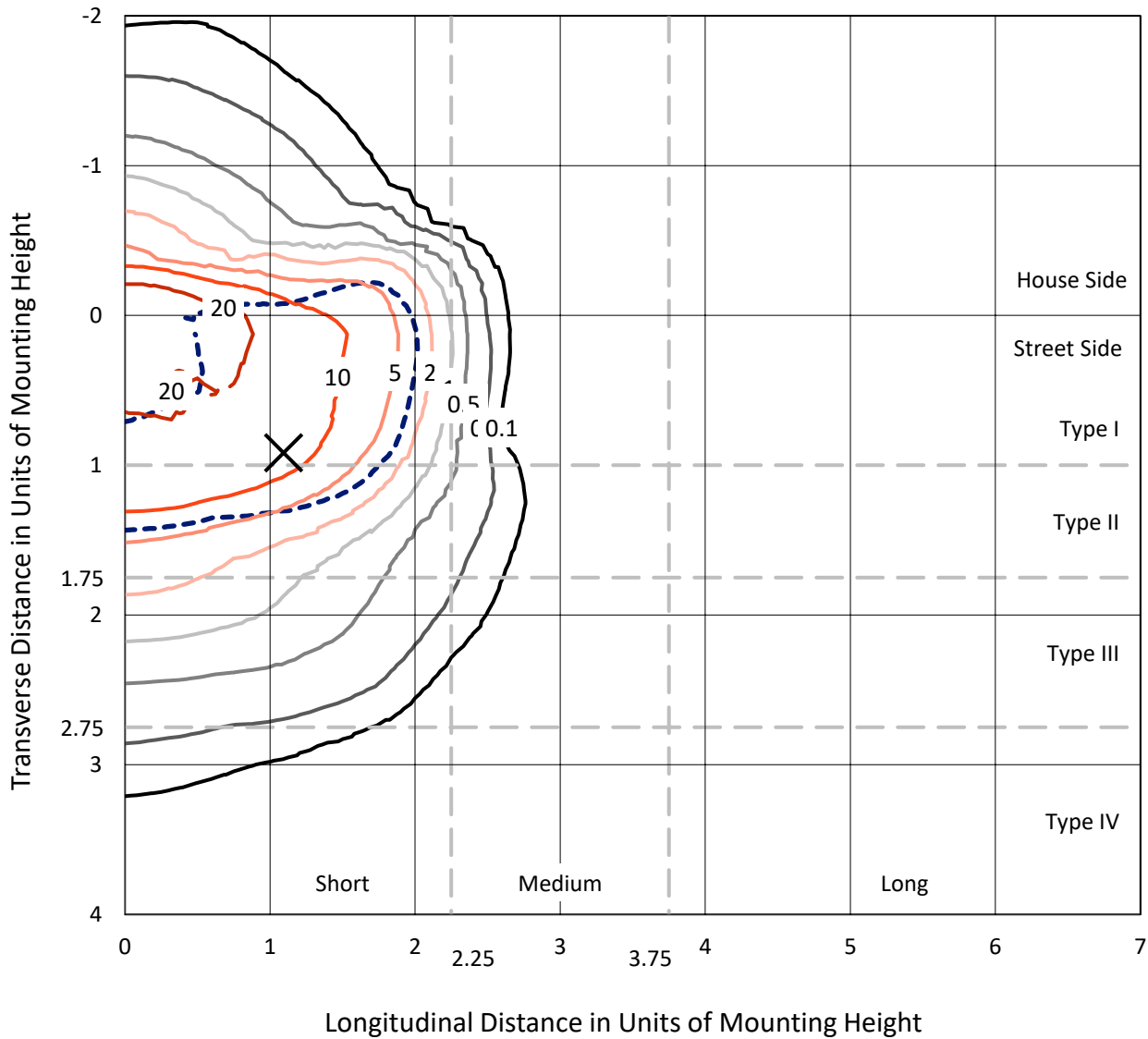
Lumens per Lamp: N/A  
Luminaire Lumens: 9744 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

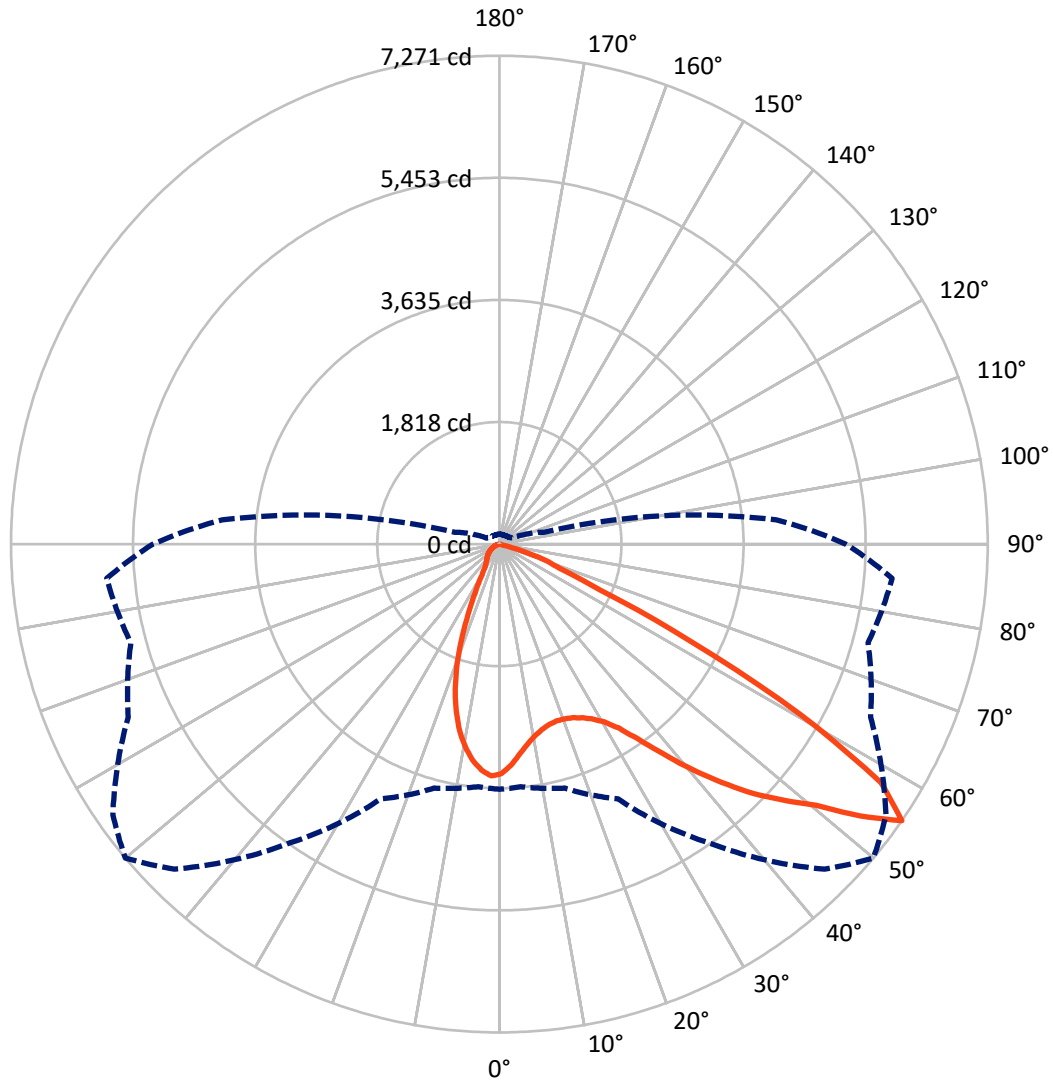
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1920.0	0.0	1920.0
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	7824.0	0.0	7824.0
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	9744.0	0.0	9744.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.2	3.1
10°-20°	738.8	7.6
20°-30°	1042.1	10.7
30°-40°	1542.2	15.8
40°-50°	2224.9	22.8
50°-60°	2624.4	26.9
60°-70°	1170.7	12.0
70°-80°	100.6	1.0
80°-90°	0.0	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°	9744.0	100.0
0°-180°	9744.0	100.0

**Coefficient of Utilization**



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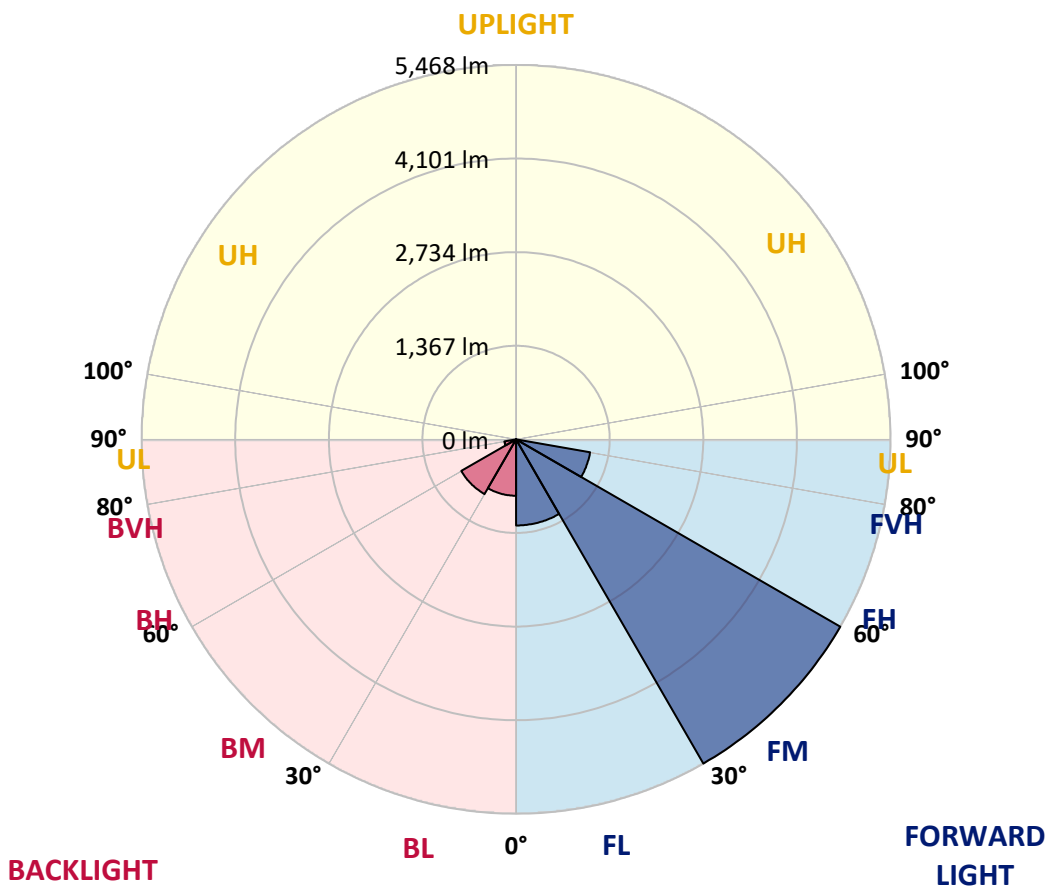
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.0	12.9			
FM (30°-60°)	5468.0	56.1			
FH (60°-80°)	1098.0	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	823.2	8.4	B2/1000		
BM (30°-60°)	923.4	9.5	B1/1000		
BH (60°-80°)	173.4	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7
2.5°	3176.1	3178.4	3179.6	3211.8	3223.7	3271.2	3296.2	3309.3	3343.8	3384.2	3417.5
5°	2963.1	2959.6	2965.5	3006.0	3032.1	3102.3	3140.4	3166.6	3242.7	3337.8	3417.5
7.5°	2777.6	2784.7	2791.8	2835.9	2875.1	2951.2	3006.0	3045.2	3151.1	3292.6	3427.1
10°	2646.7	2646.7	2657.4	2707.4	2753.8	2847.8	2902.5	2952.4	3078.5	3252.2	3437.8
12.5°	2550.4	2551.6	2564.6	2621.7	2675.3	2772.8	2829.9	2878.7	3017.9	3211.8	3440.1
15°	2505.2	2501.6	2512.3	2573.0	2632.5	2724.0	2783.5	2831.1	2975.0	3189.2	3452.0
17.5°	2493.3	2490.9	2499.2	2558.7	2619.4	2708.6	2766.9	2814.5	2969.1	3196.3	3487.7
20°	2527.8	2523.0	2519.4	2570.6	2627.7	2715.7	2776.4	2829.9	2997.6	3235.5	3542.4
22.5°	2609.9	2609.9	2601.5	2626.5	2664.6	2744.3	2807.3	2877.5	3072.6	3314.1	3623.3
25°	2760.9	2749.0	2733.6	2744.3	2739.5	2789.5	2864.4	2962.0	3214.1	3443.7	3722.1
27.5°	2933.4	2944.1	2917.9	2919.1	2877.5	2859.7	2946.5	3094.0	3424.7	3626.9	3868.4
30°	3167.7	3159.4	3160.6	3157.0	3060.7	2976.2	3070.2	3266.5	3690.0	3906.4	4058.7
32.5°	3350.9	3362.8	3402.1	3424.7	3298.6	3163.0	3262.9	3500.8	3992.1	4225.2	4291.9
35°	3544.8	3566.2	3645.9	3719.7	3613.8	3458.0	3565.1	3811.3	4276.4	4540.5	4559.5
37.5°	3749.4	3792.3	3887.4	4017.1	4000.4	3862.4	3960.0	4176.5	4500.0	4730.8	4780.8
40°	3983.8	4025.4	4181.2	4368.0	4407.2	4376.3	4408.4	4534.5	4647.5	4739.1	4875.9
42.5°	4240.7	4297.8	4495.3	4745.1	4892.6	4919.9	4845.0	4831.9	4711.8	4644.0	4855.7
45°	4544.0	4610.7	4834.3	5157.8	5392.2	5429.1	5299.4	5131.7	4752.2	4573.8	4795.0
47.5°	4884.2	4947.3	5169.7	5558.7	5907.3	5921.5	5695.5	5425.5	4872.4	4654.7	4841.4
50°	4998.4	5037.7	5230.4	5687.2	6329.5	6439.0	6111.9	5756.2	5113.8	4892.6	5067.4
52.5°	4605.9	4621.4	4789.1	5250.6	6243.9	6946.9	6719.7	6249.8	5543.3	5255.4	5416.0
55°	3649.5	3624.5	3760.1	4183.6	5426.7	6843.4	7270.5	7025.4	6096.4	5681.2	5869.2
57.5°	2552.8	2523.0	2492.1	2778.8	4049.2	5801.4	6699.5	7133.7	6623.4	6103.5	6358.1
60°	2098.3	2069.8	1919.9	1787.9	2448.1	4165.8	5145.9	5963.2	6580.5	6082.1	6342.6
62.5°	1812.9	1796.2	1735.5	1555.9	1440.5	2377.9	3222.5	4005.2	5049.6	4776.0	4790.3
65°	1423.9	1419.1	1460.8	1479.8	1274.0	1315.6	1643.9	2081.7	2730.0	2574.2	2440.9
67.5°	973.0	962.3	1040.8	1279.9	1225.2	1038.5	962.3	970.7	1181.2	722.1	573.4
70°	618.6	593.6	594.8	793.4	996.8	819.6	742.3	653.1	587.6	107.1	121.3
72.5°	396.1	380.7	327.1	358.1	461.5	399.7	403.3	347.3	232.0	57.1	66.6
75°	166.5	153.5	117.8	94.0	92.8	58.3	51.2	47.6	32.1	32.1	34.5
77.5°	1.2	0.0	0.0	1.2	2.4	1.2	1.2	2.4	4.8	7.1	8.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7
2.5°	3437.8	3409.2	3441.3	3453.2	3452.0	3453.2	3418.7	3394.9	3393.8	3364.0	3349.7
5°	3450.9	3428.3	3452.0	3436.6	3399.7	3353.3	3291.5	3237.9	3214.1	3179.6	3163.0
7.5°	3475.8	3452.0	3448.5	3386.6	3295.0	3197.5	3088.0	2990.5	2938.2	2875.1	2878.7
10°	3493.7	3466.3	3419.9	3293.8	3141.6	2985.7	2822.8	2677.7	2586.1	2501.6	2487.3
12.5°	3500.8	3460.4	3352.1	3161.8	2947.7	2744.3	2505.2	2298.2	2155.4	2044.8	2029.4
15°	3513.9	3448.5	3265.3	3002.4	2708.6	2420.7	2116.2	1833.1	1643.9	1516.7	1527.4
17.5°	3534.1	3435.4	3167.7	2824.0	2451.6	2044.8	1633.2	1308.5	1134.8	1061.1	1062.3
20°	3562.7	3419.9	3060.7	2627.7	2143.6	1620.2	1142.0	896.9	848.1	845.8	842.2
22.5°	3600.7	3404.5	2946.5	2412.4	1778.4	1134.8	760.1	684.0	704.2	743.5	750.6
25°	3645.9	3385.4	2819.2	2169.7	1379.9	744.7	569.8	557.9	606.7	659.0	670.9
27.5°	3716.1	3375.9	2674.1	1893.7	968.3	534.1	466.3	473.4	517.4	561.5	572.2
30°	3835.1	3393.8	2515.9	1584.5	622.1	425.9	404.4	415.1	438.9	461.5	471.1
32.5°	3996.9	3446.1	2362.4	1246.6	443.7	369.9	365.2	371.1	380.7	393.7	397.3
35°	4186.0	3536.5	2204.2	892.2	366.4	337.8	333.1	333.1	337.8	340.2	341.4
37.5°	4341.8	3631.7	2055.5	593.6	328.3	312.8	305.7	302.1	301.0	303.3	304.5
40°	4409.6	3670.9	1893.7	431.8	301.0	290.2	279.5	268.8	268.8	277.2	278.4
42.5°	4362.0	3626.9	1707.0	356.9	281.9	266.5	249.8	240.3	245.0	253.4	255.8
45°	4260.9	3518.7	1501.2	315.2	262.9	242.7	223.6	217.7	222.4	233.1	235.5
47.5°	4244.3	3447.3	1255.0	287.9	242.7	222.4	202.2	196.3	202.2	210.5	212.9
50°	4409.6	3509.1	981.4	264.1	223.6	201.0	184.4	178.4	182.0	186.8	189.1
52.5°	4711.8	3738.7	792.2	241.5	201.0	179.6	168.9	161.8	161.8	166.5	167.7
55°	5157.8	4139.6	684.0	215.3	174.9	163.0	153.5	146.3	146.3	148.7	149.9
57.5°	5671.7	4624.9	709.0	180.8	153.5	147.5	139.2	133.2	135.6	135.6	135.6
60°	5600.4	4589.2	758.9	152.3	135.6	133.2	126.1	123.7	129.7	124.9	122.5
62.5°	4125.3	3170.1	397.3	124.9	116.6	114.2	109.4	114.2	122.5	109.4	104.7
65°	2003.2	1534.5	159.4	102.3	98.7	96.4	94.0	101.1	105.9	85.6	80.9
67.5°	471.1	383.0	103.5	86.8	82.1	77.3	79.7	80.9	77.3	58.3	55.9
70°	122.5	120.1	80.9	72.6	65.4	60.7	60.7	59.5	51.2	36.9	34.5
72.5°	66.6	65.4	58.3	54.7	45.2	40.4	41.6	36.9	28.5	21.4	20.2
75°	33.3	35.7	33.3	30.9	25.0	22.6	22.6	20.2	14.3	8.3	8.3
77.5°	7.1	8.3	8.3	7.1	5.9	4.8	4.8	5.9	2.4	0.0	0.0
80°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)