

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: P642289

Luminaire Tested: GWS-SA6C-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-750-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

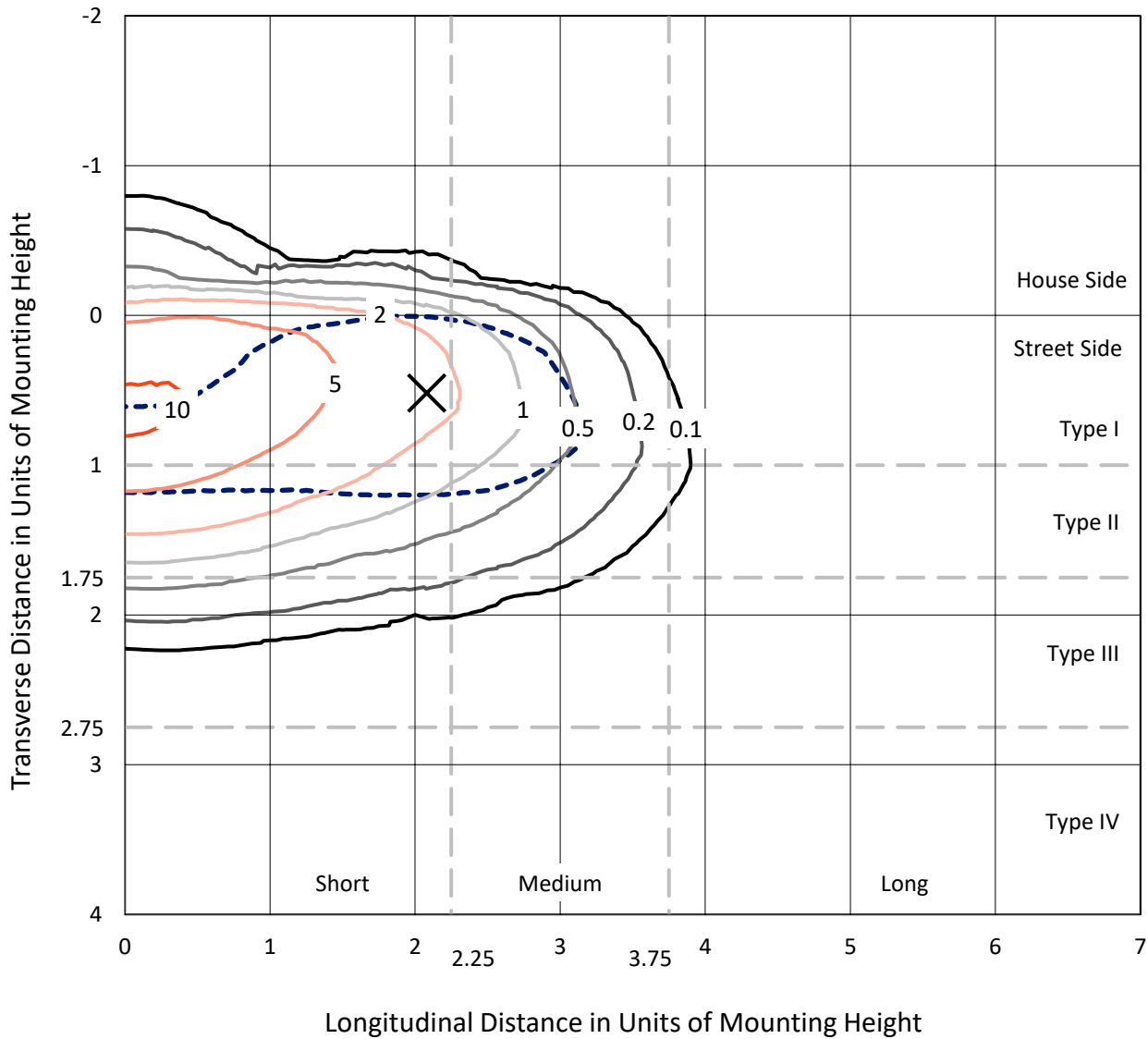
Lumens per Lamp: N/A  
Luminaire Lumens: 23424.5 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

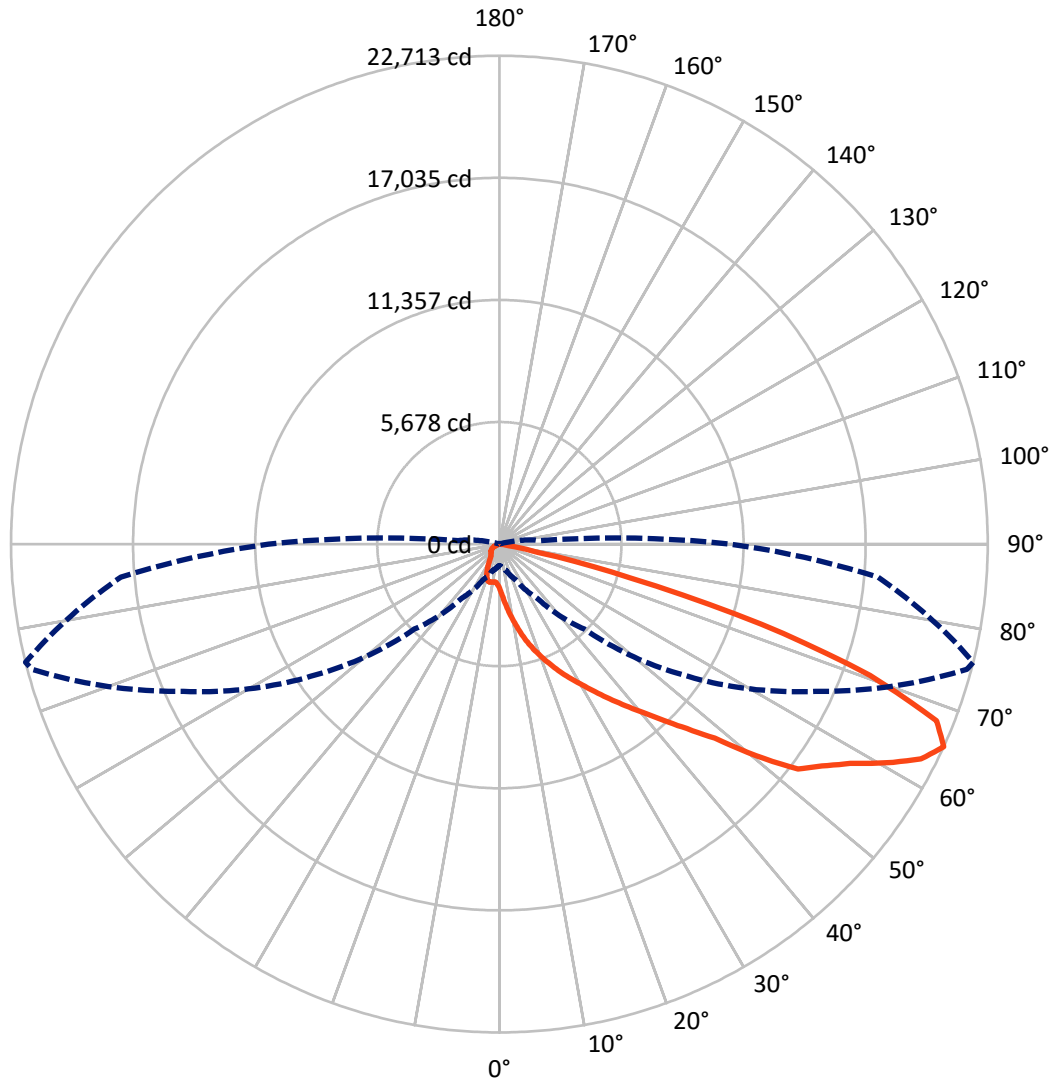
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1295.2	0.0	1295.2
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	22129.3	0.0	22129.3
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	23424.5	0.0	23424.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	1.1
10°-20°	957.4	4.1
20°-30°	1953.2	8.3
30°-40°	3473.7	14.8
40°-50°	5135.0	21.9
50°-60°	5879.2	25.1
60°-70°	4485.6	19.1
70°-80°	1256.5	5.4
80°-90°	31.6	0.1
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°	23424.5	100.0
0°-180°	23424.5	100.0

**Coefficient of Utilization**



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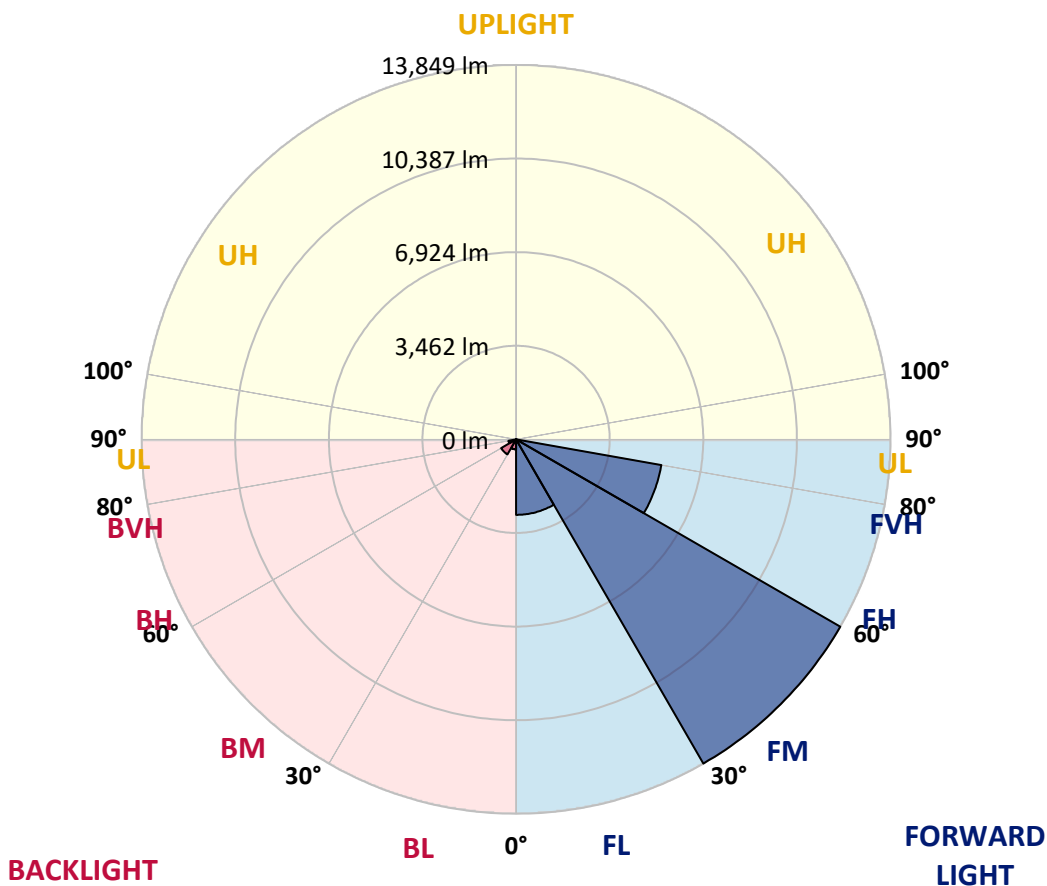
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.2	11.9			
FM (30°-60°)	13848.9	59.1			
FH (60°-80°)	5457.3	23.3			G3/7500
FVH (80°-90°)	29.8	0.1			G1/100
BL (0°-30°)	369.6	1.6	B1/500		
BM (30°-60°)	639.1	2.7	B1/1000		
BH (60°-80°)	284.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9
2.5°	3196.3	3244.1	3206.7	3144.2	3023.4	2906.8	2756.9	2550.8	2386.3	2365.4	2211.4
5°	4316.5	4312.3	4231.1	4149.9	4022.9	3823.0	3521.1	3138.0	2769.4	2738.2	2392.5
7.5°	4982.8	4989.1	4943.3	4880.8	4755.9	4549.7	4235.3	3773.0	3233.7	3171.3	2640.3
10°	5543.0	5540.9	5507.6	5478.4	5366.0	5228.5	4891.2	4383.1	3733.5	3635.6	2917.2
12.5°	5963.6	5978.1	5994.8	6024.0	5976.1	5840.7	5522.1	4968.3	4239.5	4131.2	3233.7
15°	6296.7	6300.9	6363.4	6475.8	6515.4	6444.6	6155.1	5534.6	4739.2	4645.5	3598.1
17.5°	6396.7	6405.0	6511.2	6717.3	6925.6	6965.1	6746.5	6105.2	5230.6	5130.7	3952.1
20°	6607.0	6625.7	6704.9	6886.0	7148.4	7360.8	7275.4	6681.9	5722.0	5590.8	4314.4
22.5°	7269.1	7279.6	7252.5	7275.4	7410.7	7656.4	7708.5	7240.0	6225.9	6086.4	4705.9
25°	8408.1	8412.3	8222.8	8043.7	7941.7	7987.5	8102.0	7754.3	6725.7	6588.2	5070.3
27.5°	9590.9	9605.4	9378.5	9074.5	8710.1	8501.8	8468.5	8224.9	7229.6	7077.6	5430.5
30°	10704.9	10704.9	10465.4	10094.8	9607.5	9201.5	8962.0	8699.6	7768.9	7602.3	5799.1
32.5°	11706.4	11698.1	11392.0	10990.1	10509.1	10063.5	9559.6	9195.2	8368.6	8183.2	6223.9
35°	12533.1	12512.3	12164.5	11779.3	11265.0	10933.9	10371.7	9728.3	9018.2	8832.9	6661.1
37.5°	13157.7	13134.8	12816.3	12408.1	11931.3	11716.8	11246.2	10367.5	9703.3	9534.6	7146.3
40°	13497.2	13451.3	13230.6	12926.6	12526.8	12339.4	12143.7	11160.9	10509.1	10298.8	7718.9
42.5°	13597.1	13543.0	13397.2	13255.6	13014.1	12866.2	13076.5	12056.2	11394.1	11212.9	8372.7
45°	13301.4	13270.2	13257.7	13359.7	13403.5	13445.1	13963.6	13047.4	12370.7	12233.2	9195.2
47.5°	12589.3	12581.0	12691.3	13116.1	13578.4	14017.7	14927.7	14269.7	13636.7	13488.8	10344.6
50°	11273.3	11358.7	11666.9	12412.3	13336.8	14342.5	15829.3	15964.6	15685.6	15469.0	11843.8
52.5°	9216.0	9380.5	10071.9	11204.6	12533.1	14250.9	16245.7	17322.3	17607.5	17382.6	12918.3
55°	7231.7	7385.7	8002.1	9438.8	11210.8	13553.4	16264.5	17790.8	18413.4	18205.1	13645.0
57.5°	5386.8	5528.4	6088.5	7462.8	9411.8	12181.2	15818.9	18051.0	19369.1	19235.8	14792.3
60°	3521.1	3660.6	4166.6	5368.0	7300.4	10182.2	14721.5	17996.9	20670.5	20658.0	16202.0
62.5°	1953.2	2063.5	2430.0	3367.0	5095.3	7885.5	12997.4	17453.4	21930.3	22009.4	17363.9
65°	999.5	1070.3	1293.1	1851.1	3083.8	5590.8	10729.8	16208.2	22513.3	22713.2	17670.0
67.5°	653.8	676.7	730.9	962.0	1651.2	3516.9	8075.0	14211.4	21692.9	21926.1	16643.4
70°	531.0	549.7	580.9	641.3	851.6	1867.8	5303.5	11350.4	18126.0	18284.3	13253.5
72.5°	389.4	414.4	474.8	514.3	614.3	1024.5	2759.0	7450.3	12447.7	12726.7	8329.0
75°	287.4	301.9	351.9	406.0	501.8	647.6	1055.7	3916.7	6427.9	6265.5	3498.2
77.5°	172.8	183.2	224.9	260.3	358.1	404.0	368.6	1447.2	1955.2	1838.6	845.4
80°	85.4	95.8	147.8	195.7	229.0	162.4	154.1	404.0	435.2	435.2	212.4
82.5°	29.2	37.5	79.1	129.1	112.4	62.5	72.9	104.1	116.6	122.9	62.5
85°	0.0	0.0	18.7	37.5	16.7	8.3	18.7	22.9	29.2	31.2	20.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.2	8.3	8.3
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°	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9	2073.9
2.5°	2128.1	2030.2	1882.4	1749.1	1647.1	1551.3	1478.4	1420.1	1409.7	1376.4	1380.5
5°	2223.8	2046.9	1774.1	1563.8	1415.9	1316.0	1232.7	1170.2	1143.2	1116.1	1095.3
7.5°	2371.7	2115.6	1732.4	1476.3	1303.5	1149.4	1020.3	916.2	866.2	835.0	814.2
10°	2552.8	2211.4	1734.5	1424.3	1168.1	932.8	755.9	641.3	587.2	570.5	568.5
12.5°	2769.4	2332.1	1751.2	1338.9	972.4	693.4	560.1	508.1	491.4	476.8	476.8
15°	2998.4	2467.5	1751.2	1182.7	741.3	541.4	485.2	451.8	431.0	422.7	418.5
17.5°	3240.0	2594.5	1709.5	968.2	568.5	476.8	431.0	399.8	383.1	370.6	366.5
20°	3498.2	2715.3	1605.4	741.3	487.2	426.9	383.1	351.9	335.2	322.7	322.7
22.5°	3760.5	2827.7	1436.8	570.5	431.0	379.0	337.3	308.2	291.5	279.0	279.0
25°	4004.2	2902.7	1220.2	470.6	389.4	337.3	299.8	270.7	252.0	243.6	239.5
27.5°	4231.1	2950.6	980.7	414.4	349.8	301.9	262.4	235.3	220.7	214.5	210.3
30°	4466.4	2963.0	749.6	376.9	316.5	266.5	229.0	208.2	195.7	187.4	187.4
32.5°	4695.5	2948.5	572.6	345.7	287.4	235.3	204.1	185.3	174.9	168.7	166.6
35°	4928.7	2881.8	464.3	318.6	258.2	206.1	181.2	166.6	160.3	152.0	152.0
37.5°	5182.7	2792.3	404.0	291.5	229.0	185.3	162.4	152.0	143.7	137.4	135.3
40°	5499.2	2688.2	370.6	268.6	202.0	166.6	145.8	135.3	129.1	122.9	120.8
42.5°	5874.0	2586.2	354.0	243.6	181.2	147.8	131.2	118.7	112.4	104.1	102.0
45°	6405.0	2563.3	335.2	216.6	162.4	133.3	114.5	102.0	93.7	87.5	85.4
47.5°	7258.7	2627.8	304.0	187.4	143.7	116.6	97.9	87.5	77.0	70.8	66.6
50°	8106.2	2611.1	272.8	162.4	127.0	99.9	83.3	72.9	62.5	56.2	54.1
52.5°	8568.5	2532.0	243.6	143.7	110.4	85.4	70.8	58.3	52.1	45.8	43.7
55°	8987.0	2500.8	214.5	124.9	93.7	75.0	58.3	47.9	43.7	37.5	35.4
57.5°	9807.4	2573.7	189.5	108.3	81.2	64.5	50.0	39.6	35.4	29.2	27.1
60°	10665.3	2582.0	162.4	93.7	70.8	54.1	39.6	31.2	27.1	20.8	18.7
62.5°	11113.0	2371.7	133.3	79.1	58.3	45.8	33.3	25.0	20.8	12.5	12.5
65°	10738.2	1917.8	112.4	64.5	45.8	35.4	25.0	18.7	12.5	6.2	2.1
67.5°	9503.4	1363.9	93.7	52.1	33.3	25.0	18.7	12.5	2.1	0.0	0.0
70°	6958.9	778.8	72.9	37.5	25.0	16.7	12.5	6.2	0.0	0.0	0.0
72.5°	4276.9	416.5	54.1	25.0	18.7	12.5	10.4	4.2	0.0	0.0	0.0
75°	1622.1	199.9	33.3	16.7	14.6	10.4	6.2	2.1	0.0	0.0	0.0
77.5°	439.4	97.9	18.7	12.5	10.4	6.2	4.2	0.0	0.0	0.0	0.0
80°	114.5	45.8	12.5	8.3	6.2	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	39.6	20.8	6.2	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
85°	16.7	8.3	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.1	2.1	2.1	2.1	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)