

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: P641790

Luminaire Tested: GWS-SA6B-750-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-750-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

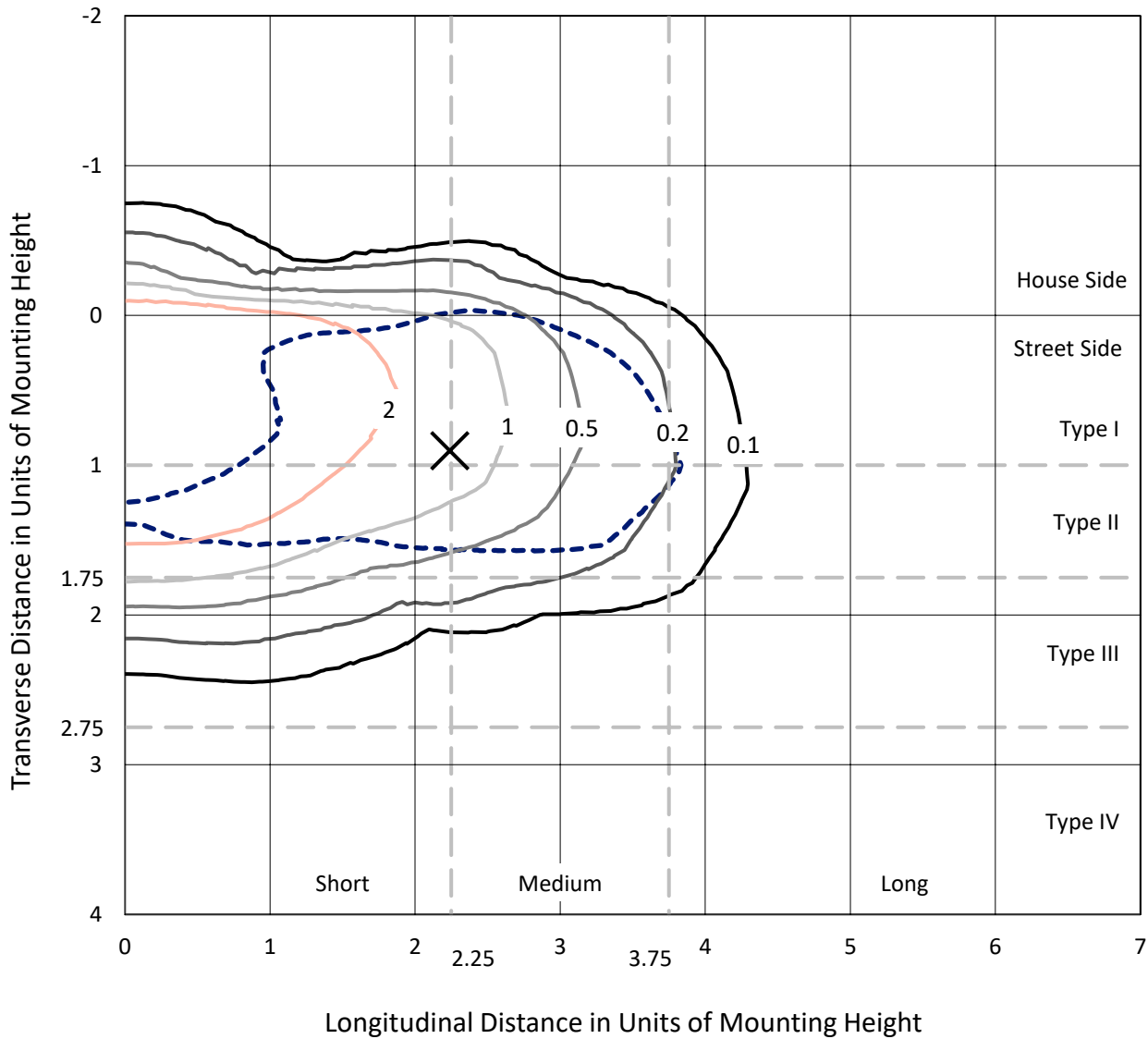
Lumens per Lamp: N/A  
Luminaire Lumens: 16222.9 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

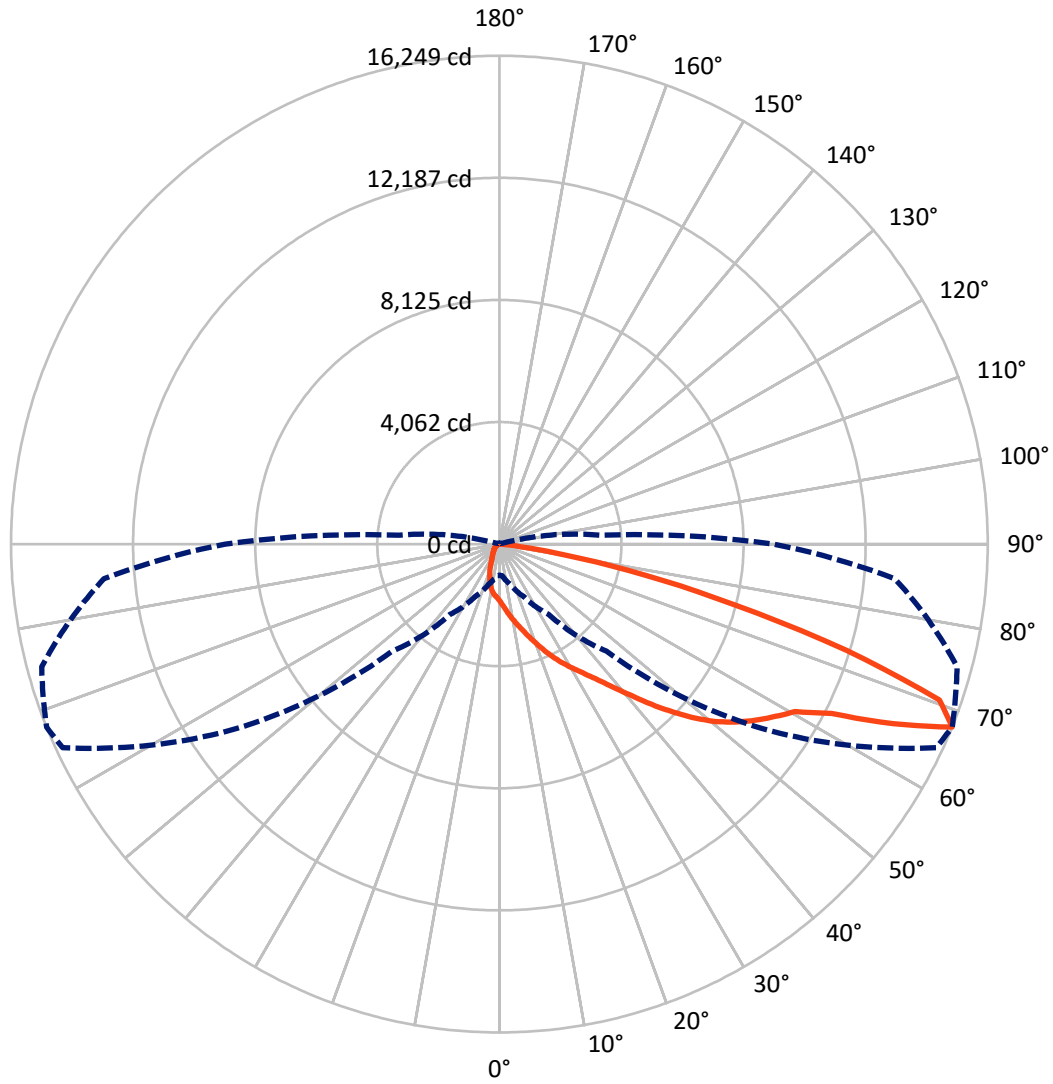
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1171.5	0.0	1171.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	15051.4	0.0	15051.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	16222.9	0.0	16222.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.1	1.1
10°-20°	528.8	3.3
20°-30°	908.7	5.6
30°-40°	1579.9	9.7
40°-50°	2756.7	17.0
50°-60°	4157.8	25.6
60°-70°	4169.2	25.7
70°-80°	1839.5	11.3
80°-90°	98.3	0.6
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°	16222.9	100.0
0°-180°	16222.9	100.0

**Coefficient of Utilization**



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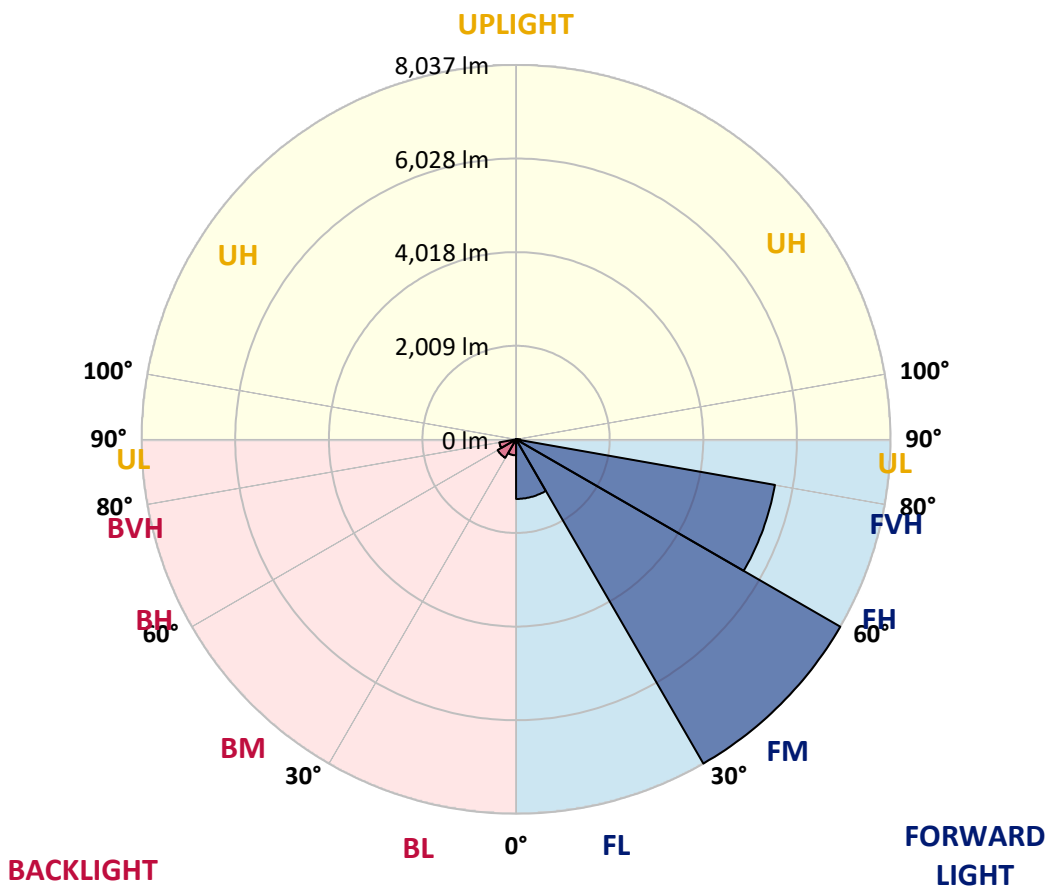
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.9	7.9			
FM (30°-60°)	8036.8	49.5			
FH (60°-80°)	5643.1	34.8			G3/7500
FVH (80°-90°)	92.7	0.6			G1/100
BL (0°-30°)	342.7	2.1	B1/500		
BM (30°-60°)	457.6	2.8	B1/1000		
BH (60°-80°)	365.6	2.3	B1/500		G1/500
BVH (80°-90°)	5.6	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°	68°	75°	85°
0°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	2198.4	2212.4	2198.4	2201.6	2161.2	2142.6	2102.2	2046.3	2032.3	1996.6	1942.3
5°	2467.0	2479.5	2465.5	2462.4	2415.8	2381.7	2314.9	2218.6	2190.7	2120.8	2013.7
7.5°	2613.0	2620.7	2625.4	2633.2	2616.1	2588.1	2527.6	2408.0	2378.5	2265.2	2114.6
10°	2628.5	2634.7	2658.0	2704.6	2738.7	2755.8	2721.7	2611.4	2564.9	2454.6	2238.8
12.5°	2585.0	2594.4	2631.6	2709.2	2804.0	2890.9	2912.6	2816.4	2774.5	2633.2	2384.8
15°	2527.6	2535.4	2586.6	2692.2	2835.0	2994.9	3085.0	3043.0	2996.5	2849.0	2546.2
17.5°	2439.1	2450.0	2521.4	2664.2	2849.0	3077.2	3271.3	3285.3	3252.6	3092.7	2724.8
20°	2389.4	2397.2	2460.8	2608.3	2839.7	3137.8	3445.2	3577.1	3541.4	3373.7	2929.7
22.5°	2431.3	2437.5	2479.5	2594.4	2808.6	3171.9	3606.6	3869.0	3848.8	3674.9	3145.5
25°	2651.8	2672.0	2647.1	2667.3	2822.6	3190.5	3737.1	4160.9	4165.6	3990.1	3369.1
27.5°	3098.9	3072.5	3013.6	2912.6	2931.3	3240.2	3848.8	4435.7	4476.1	4297.5	3567.8
30°	3553.8	3538.3	3502.6	3345.8	3215.4	3350.5	3943.5	4716.7	4780.4	4600.3	3744.8
32.5°	4064.6	4080.2	4016.5	3828.7	3606.6	3574.0	4041.4	4983.8	5103.3	4943.4	3952.9
35°	4674.8	4679.5	4553.7	4345.7	4094.1	3943.5	4216.8	5278.8	5499.2	5381.2	4230.8
37.5°	5269.4	5297.4	5229.1	4901.5	4677.9	4403.1	4507.1	5657.6	5968.1	5921.5	4580.1
40°	5795.8	5839.2	5817.5	5500.8	5207.3	4976.0	4957.4	6101.6	6534.8	6587.6	5041.2
42.5°	6215.0	6242.9	6260.0	6034.9	5775.6	5645.2	5513.2	6617.1	7204.0	7419.8	5606.4
45°	6657.4	6666.8	6702.5	6550.3	6323.6	6334.5	6169.9	7242.8	7908.8	8342.0	6255.3
47.5°	7221.0	7252.1	7235.0	7075.1	6870.2	6992.8	6848.4	7887.1	8604.4	9326.3	6919.8
50°	7907.3	7939.9	7924.4	7738.0	7509.8	7561.0	7471.0	8512.8	9275.1	10254.8	7472.6
52.5°	8261.3	8287.7	8480.2	8564.0	8444.5	8118.4	8002.0	9200.6	9841.8	11018.6	7980.2
55°	8090.5	8109.1	8528.3	8882.3	9320.1	8994.1	8536.1	9731.5	10341.7	11614.8	8357.5
57.5°	7382.5	7483.4	8053.2	8652.5	9573.2	9858.9	9402.4	10309.1	10823.0	12029.4	8728.6
60°	5930.8	5926.2	6742.8	7818.8	9079.5	10096.4	10625.8	11090.1	11305.9	12347.6	9225.4
62.5°	3277.5	3307.0	4393.8	5811.3	7707.0	9481.6	11543.4	12439.2	12406.6	12903.5	10003.3
65°	1631.8	1690.8	2280.7	3328.7	5128.2	7835.9	11701.8	14498.0	14404.8	14212.3	11610.2
67.5°	1035.6	1058.9	1384.9	1934.5	2850.5	5036.6	10715.9	16033.5	16249.3	15764.9	13204.7
70°	670.7	709.5	962.6	1322.8	1720.3	2595.9	7849.8	15038.3	15533.5	15594.1	12211.0
72.5°	364.9	392.8	614.8	944.0	1242.1	1298.0	4409.3	11285.7	12082.2	13228.0	9553.0
75°	208.0	228.2	336.9	641.2	911.4	790.3	1954.7	7554.8	8062.5	9453.6	6845.3
77.5°	125.8	142.8	189.4	312.1	571.3	527.9	739.0	4598.7	4921.7	5640.5	3592.7
80°	57.4	68.3	119.5	172.3	312.1	250.0	282.6	2144.1	2214.0	2314.9	1189.3
82.5°	26.4	31.1	54.3	102.5	177.0	144.4	108.7	495.3	697.1	659.8	302.8
85°	3.1	3.1	20.2	41.9	49.7	37.3	45.0	111.8	141.3	198.7	86.9
87.5°	0.0	0.0	1.6	1.6	3.1	4.7	9.3	14.0	20.2	32.6	21.7
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°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	1917.4	1874.0	1835.1	1777.7	1738.9	1695.4	1665.9	1630.2	1616.2	1605.4	1589.8
5°	1960.9	1891.0	1796.3	1690.8	1603.8	1521.5	1445.4	1395.8	1352.3	1346.1	1324.3
7.5°	2032.3	1928.3	1768.4	1596.0	1448.6	1311.9	1204.8	1117.9	1074.4	1060.4	1035.6
10°	2127.0	1984.2	1726.5	1462.5	1249.8	1086.8	965.7	867.9	799.6	774.7	756.1
12.5°	2232.6	2035.4	1659.7	1298.0	1055.8	869.4	715.7	611.7	568.2	552.7	538.7
15°	2353.7	2083.6	1554.1	1133.4	866.3	639.7	531.0	486.0	467.3	462.7	458.0
17.5°	2470.1	2114.6	1428.4	962.6	666.1	496.8	445.6	428.5	423.9	419.2	416.1
20°	2602.1	2136.3	1280.9	801.1	517.0	420.7	395.9	383.5	374.2	364.9	363.3
22.5°	2737.2	2136.3	1121.0	642.8	433.2	377.3	349.3	326.0	309.0	299.6	296.5
25°	2866.1	2106.8	962.6	513.9	381.9	335.4	299.6	273.3	250.0	239.1	236.0
27.5°	2957.7	2030.8	824.4	434.7	346.2	298.1	254.6	225.1	206.5	195.6	194.1
30°	3015.1	1917.4	697.1	388.1	315.2	259.3	215.8	191.0	177.0	169.2	166.1
32.5°	3058.6	1777.7	583.8	355.5	285.7	225.1	187.9	167.7	155.3	149.0	147.5
35°	3145.5	1645.7	499.9	326.0	254.6	197.2	164.6	149.0	139.7	132.0	130.4
37.5°	3266.6	1535.5	433.2	299.6	225.1	175.4	149.0	135.1	127.3	119.5	118.0
40°	3445.2	1465.6	383.5	273.3	198.7	158.4	136.6	124.2	113.3	105.6	104.0
42.5°	3720.0	1433.0	350.9	246.9	175.4	142.8	125.8	110.2	99.4	91.6	90.0
45°	4047.6	1450.1	322.9	220.5	159.9	132.0	111.8	96.3	85.4	77.6	76.1
47.5°	4398.4	1510.7	299.6	195.6	144.4	121.1	99.4	82.3	73.0	65.2	63.7
50°	4764.9	1610.0	279.5	172.3	132.0	108.7	85.4	71.4	62.1	55.9	54.3
52.5°	5083.1	1745.1	259.3	155.3	121.1	96.3	74.5	62.1	52.8	46.6	45.0
55°	5387.4	1872.4	243.8	139.7	108.7	83.8	65.2	52.8	45.0	38.8	37.3
57.5°	5718.1	2007.5	225.1	125.8	97.8	74.5	57.4	45.0	38.8	32.6	31.1
60°	6199.4	2207.8	197.2	114.9	85.4	65.2	49.7	40.4	34.2	26.4	24.8
62.5°	6893.4	2572.6	166.1	99.4	73.0	55.9	41.9	34.2	27.9	21.7	18.6
65°	8191.4	3193.6	136.6	82.3	59.0	46.6	35.7	27.9	21.7	15.5	14.0
67.5°	9126.0	3355.1	110.2	66.8	48.1	35.7	29.5	21.7	15.5	10.9	9.3
70°	7978.7	2409.6	85.4	54.3	40.4	27.9	23.3	17.1	10.9	7.8	6.2
72.5°	6011.6	1574.3	63.7	41.9	31.1	23.3	17.1	14.0	9.3	6.2	4.7
75°	4237.0	909.8	46.6	31.1	21.7	17.1	14.0	10.9	7.8	4.7	4.7
77.5°	2172.1	375.7	32.6	21.7	15.5	10.9	9.3	6.2	6.2	4.7	3.1
80°	659.8	124.2	18.6	14.0	10.9	7.8	4.7	4.7	4.7	3.1	1.6
82.5°	150.6	40.4	10.9	10.9	7.8	6.2	4.7	1.6	1.6	0.0	0.0
85°	38.8	12.4	9.3	7.8	7.8	6.2	3.1	1.6	0.0	0.0	0.0
87.5°	14.0	7.8	7.8	7.8	6.2	4.7	3.1	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)