

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: P638323

Luminaire Tested: GWS-SA4E-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

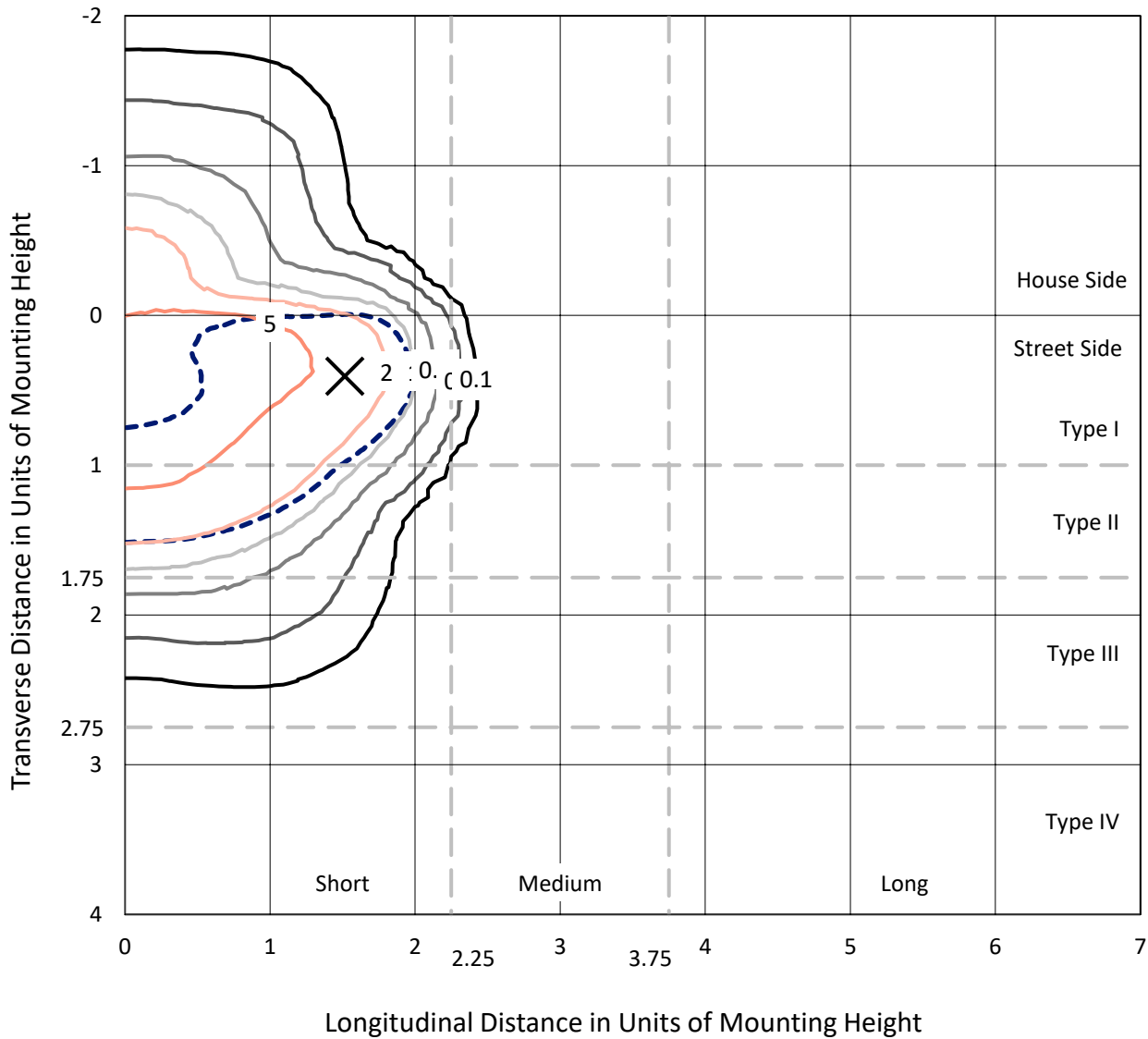
Lumens per Lamp: N/A  
Luminaire Lumens: 18594.5 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

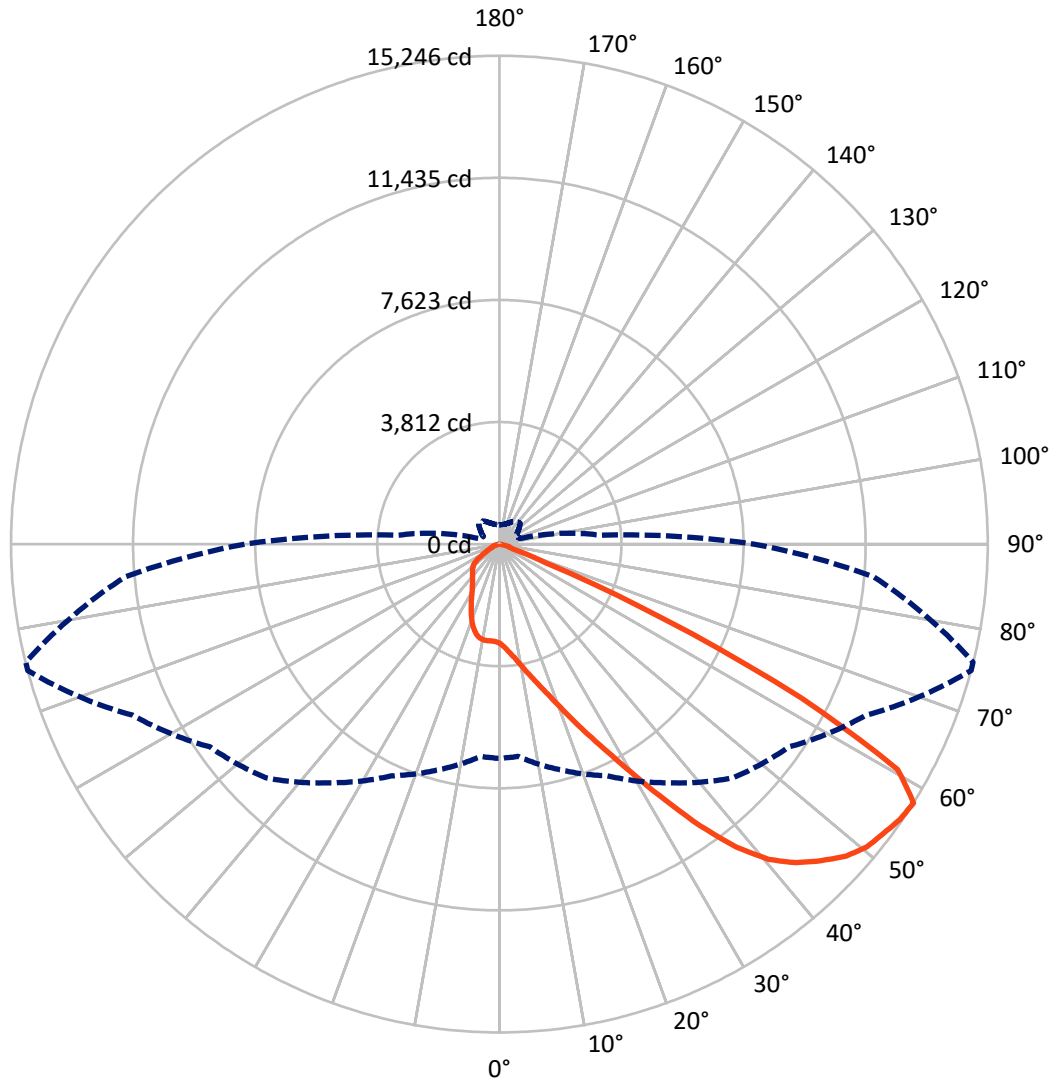
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3037.4	0.0	3037.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	15557.1	0.0	15557.1
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	18594.5	0.0	18594.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.6	1.7
10°-20°	1025.2	5.5
20°-30°	1877.3	10.1
30°-40°	3114.6	16.8
40°-50°	4756.8	25.6
50°-60°	5345.0	28.7
60°-70°	1971.5	10.6
70°-80°	188.4	1.0
80°-90°	0.1	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°	18594.5	100.0
0°-180°	18594.5	100.0

**Coefficient of Utilization**



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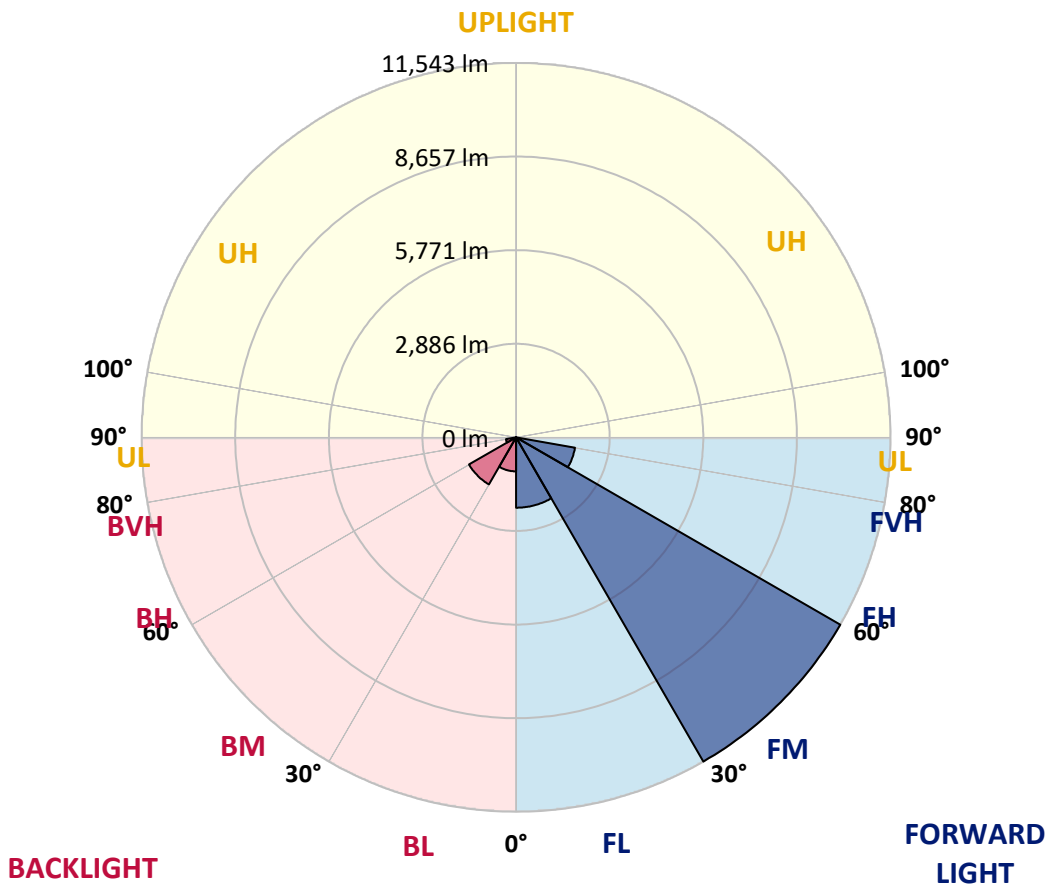
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2169.9	11.7			
FM (30°-60°)	11542.6	62.1			
FH (60°-80°)	1844.5	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1048.1	5.6	B3/2500		
BM (30°-60°)	1673.8	9.0	B2/2500		
BH (60°-80°)	315.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3
2.5°	3464.8	3500.7	3489.5	3467.1	3453.6	3406.5	3377.3	3292.0	3231.5	3224.7	3168.6
5°	3902.4	3895.7	3886.7	3859.8	3837.4	3763.3	3675.8	3532.2	3404.3	3388.5	3269.6
7.5°	4142.6	4147.0	4151.5	4147.0	4131.3	4075.2	3978.7	3810.4	3615.2	3601.7	3413.2
10°	4241.3	4250.3	4272.7	4315.3	4353.5	4349.0	4292.9	4120.1	3880.0	3857.6	3604.0
12.5°	4288.4	4299.6	4335.5	4416.3	4519.6	4600.3	4609.3	4454.5	4189.7	4153.8	3830.6
15°	4353.5	4364.7	4409.6	4515.1	4665.4	4824.7	4928.0	4829.2	4533.0	4494.9	4079.7
17.5°	4382.7	4398.4	4463.5	4602.6	4797.8	5042.4	5275.8	5266.8	4939.2	4910.0	4369.2
20°	4438.8	4450.0	4508.3	4658.7	4894.3	5246.6	5639.3	5780.7	5435.1	5392.5	4719.3
22.5°	4616.1	4620.5	4647.5	4741.7	4961.6	5394.7	6009.6	6379.9	6020.8	5964.7	5112.0
25°	4905.5	4903.3	4914.5	4930.2	5091.8	5545.1	6366.4	7055.4	6691.8	6631.2	5556.3
27.5°	5273.6	5273.6	5300.5	5255.6	5320.7	5731.4	6718.7	7831.8	7472.8	7387.5	6043.3
30°	5706.7	5704.4	5767.3	5695.4	5715.6	6025.3	7098.0	8677.8	8415.3	8309.8	6604.3
32.5°	6294.6	6281.1	6353.0	6254.2	6186.9	6469.7	7560.3	9562.0	9544.0	9382.5	7308.9
35°	7037.4	7015.0	7037.4	6940.9	6819.7	7091.3	8166.2	10443.9	10796.2	10625.7	8148.2
37.5°	7775.7	7847.5	7872.2	7706.1	7607.4	7878.9	8895.5	11233.8	11992.3	11815.0	9021.2
40°	8646.4	8624.0	8709.2	8523.0	8460.1	8760.8	9609.1	11821.8	12939.3	12771.0	9797.6
42.5°	9288.2	9328.6	9434.1	9330.8	9281.5	9564.2	10208.3	12165.1	13596.8	13430.8	10351.9
45°	10057.9	10087.1	10127.5	10042.2	9990.6	10268.9	10641.4	12315.5	14097.2	13917.7	10724.4
47.5°	10890.5	10912.9	10912.9	10737.9	10571.8	10686.3	10930.9	12400.7	14557.3	14384.5	11000.4
50°	11487.4	11498.6	11597.3	11473.9	11112.6	10935.3	11063.3	12483.8	14862.5	14700.9	11090.2
52.5°	10957.8	10944.3	11269.7	11525.5	11622.0	11269.7	11292.2	12604.9	15010.6	14871.4	11162.0
55°	9227.6	9205.2	9663.0	10284.6	11135.1	11586.1	11568.2	12676.7	15174.4	15089.1	11422.3
57.5°	6689.6	6651.4	7288.7	7979.9	9095.2	10318.2	11036.3	12636.4	15246.2	15239.5	11725.3
60°	4021.4	3990.0	4591.4	5318.4	6180.2	7409.9	8601.5	11319.1	14285.7	14299.2	10937.6
62.5°	2475.2	2504.4	3047.4	3417.7	3738.6	4108.9	4797.8	7614.1	10583.0	10670.5	7685.9
65°	1665.1	1687.5	2190.2	2657.0	2657.0	2172.3	1864.8	3639.9	5646.1	5498.0	3635.4
67.5°	1117.5	1142.2	1539.4	2084.7	2163.3	1514.7	756.3	1086.1	1573.1	1526.0	899.9
70°	657.5	684.4	1025.5	1429.5	1575.3	1054.7	504.9	460.0	446.6	433.1	350.1
72.5°	294.0	305.2	522.9	727.1	664.2	444.3	356.8	368.0	347.8	341.1	285.0
75°	89.8	94.3	134.6	157.1	159.3	159.3	215.4	289.5	273.8	276.0	219.9
77.5°	22.4	22.4	35.9	33.7	18.0	15.7	40.4	65.1	67.3	60.6	44.9
80°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
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°	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3	3101.3
2.5°	3143.9	3085.6	3047.4	2993.6	2955.4	2915.0	2879.1	2850.0	2834.3	2829.8	2832.0
5°	3215.8	3123.7	3034.0	2930.8	2858.9	2791.6	2737.8	2695.1	2674.9	2668.2	2668.2
7.5°	3325.7	3197.8	3038.5	2876.9	2755.7	2650.2	2587.4	2540.3	2522.3	2517.8	2504.4
10°	3469.3	3294.3	3031.7	2780.4	2609.9	2499.9	2455.0	2441.5	2448.3	2450.5	2448.3
12.5°	3642.1	3395.3	2989.1	2639.0	2455.0	2387.7	2392.2	2428.1	2468.5	2488.7	2493.2
15°	3826.1	3487.3	2892.6	2470.7	2322.6	2320.4	2385.4	2468.5	2547.0	2580.7	2589.7
17.5°	4032.6	3561.3	2744.5	2291.2	2208.2	2273.2	2389.9	2517.8	2623.3	2679.4	2690.6
20°	4259.2	3621.9	2556.0	2122.9	2107.2	2223.9	2385.4	2542.5	2672.7	2735.5	2746.7
22.5°	4494.9	3664.6	2338.3	1968.0	2015.2	2167.8	2342.8	2495.4	2618.8	2690.6	2699.6
25°	4764.2	3669.1	2116.2	1837.9	1929.9	2091.5	2239.6	2365.2	2468.5	2531.3	2538.0
27.5°	4999.8	3615.2	1918.7	1732.4	1851.4	1997.2	2096.0	2165.5	2237.3	2273.2	2275.5
30°	5271.3	3520.9	1732.4	1647.1	1770.6	1880.5	1929.9	1945.6	1952.3	1959.1	1950.1
32.5°	5594.5	3406.5	1593.3	1564.1	1678.6	1752.6	1766.1	1734.7	1696.5	1642.7	1629.2
35°	5991.7	3303.3	1478.8	1483.3	1577.6	1622.5	1611.2	1543.9	1469.9	1404.8	1393.6
37.5°	6422.5	3215.8	1391.3	1404.8	1467.6	1499.0	1465.4	1391.3	1357.7	1301.6	1303.8
40°	6804.0	3143.9	1312.8	1326.2	1355.4	1384.6	1330.7	1281.4	1344.2	1339.7	1344.2
42.5°	7075.6	3083.4	1245.5	1238.7	1258.9	1279.1	1238.7	1214.0	1319.5	1290.3	1306.0
45°	7234.9	3027.2	1189.4	1149.0	1180.4	1216.3	1189.4	1157.9	1193.8	1059.2	1048.0
47.5°	7342.6	2995.8	1140.0	1061.4	1117.5	1180.4	1124.3	1048.0	996.4	879.7	870.7
50°	7353.8	2980.1	1081.6	971.7	1043.5	1110.8	1045.7	940.3	866.2	814.6	807.9
52.5°	7412.2	3011.5	1000.9	857.2	935.8	1043.5	998.6	893.1	792.2	747.3	738.3
55°	7672.5	3143.9	866.2	700.1	814.6	991.9	960.5	796.6	700.1	673.2	666.5
57.5°	7941.8	3170.9	682.2	554.3	709.1	917.8	877.4	733.8	639.6	608.1	601.4
60°	7261.8	2612.1	511.6	457.8	626.1	848.3	812.4	695.7	585.7	547.6	540.8
62.5°	4770.9	1411.5	406.2	388.2	527.4	718.1	740.5	628.3	522.9	482.5	480.2
65°	2199.2	655.3	311.9	307.4	412.9	572.2	637.3	549.8	442.1	406.2	406.2
67.5°	599.2	325.4	244.6	226.7	280.5	383.7	464.5	410.7	314.2	271.5	269.3
70°	298.5	262.6	219.9	195.2	202.0	237.9	273.8	228.9	159.3	130.2	127.9
72.5°	244.6	215.4	186.3	166.1	152.6	145.9	141.4	114.4	74.1	56.1	53.9
75°	181.8	154.8	132.4	107.7	92.0	85.3	76.3	56.1	31.4	18.0	15.7
77.5°	40.4	38.1	35.9	26.9	24.7	20.2	15.7	11.2	4.5	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)