

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: P643277

Luminaire Tested: GWS-SA6E-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

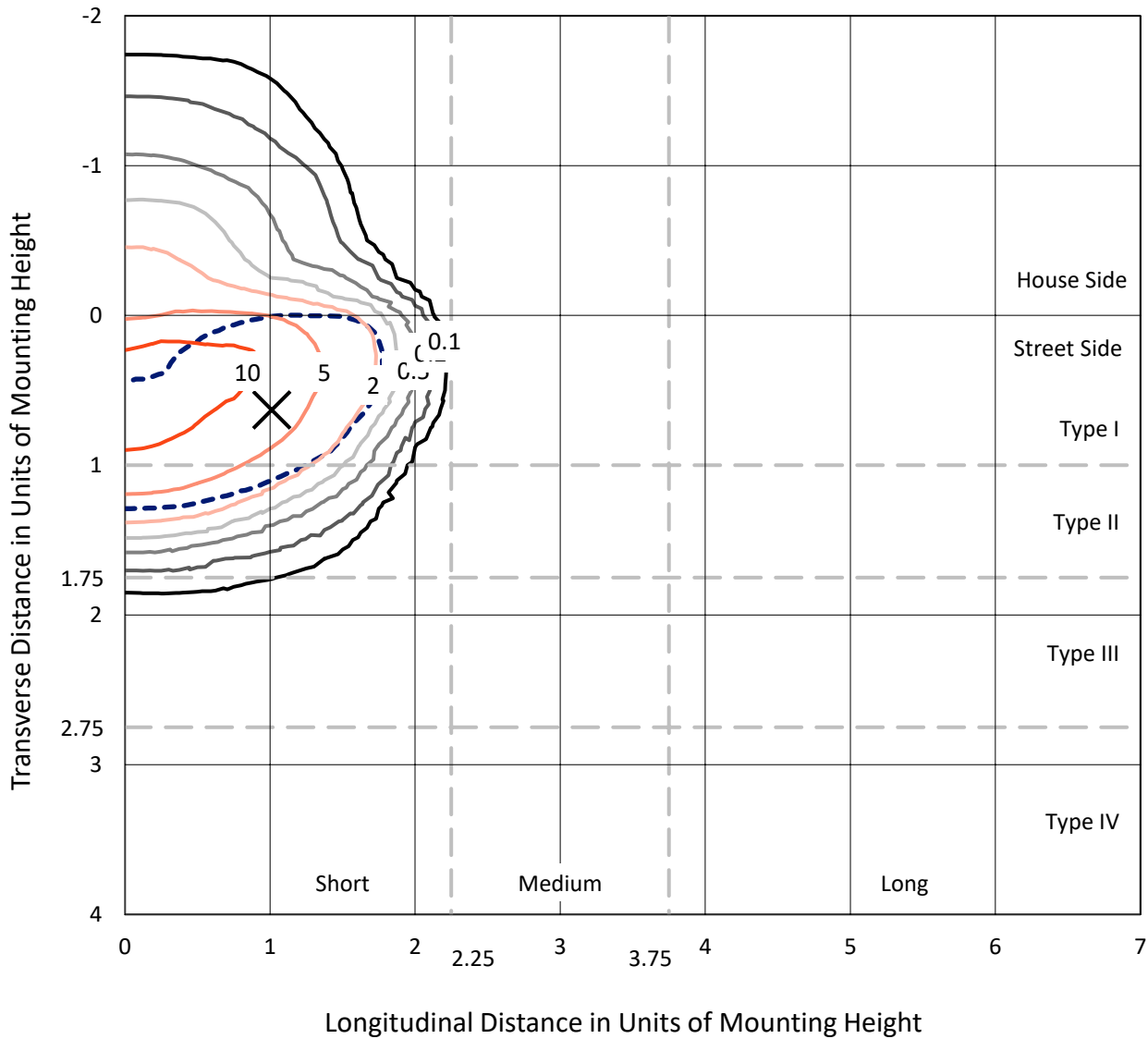
Lumens per Lamp: N/A  
Luminaire Lumens: 30695.4 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

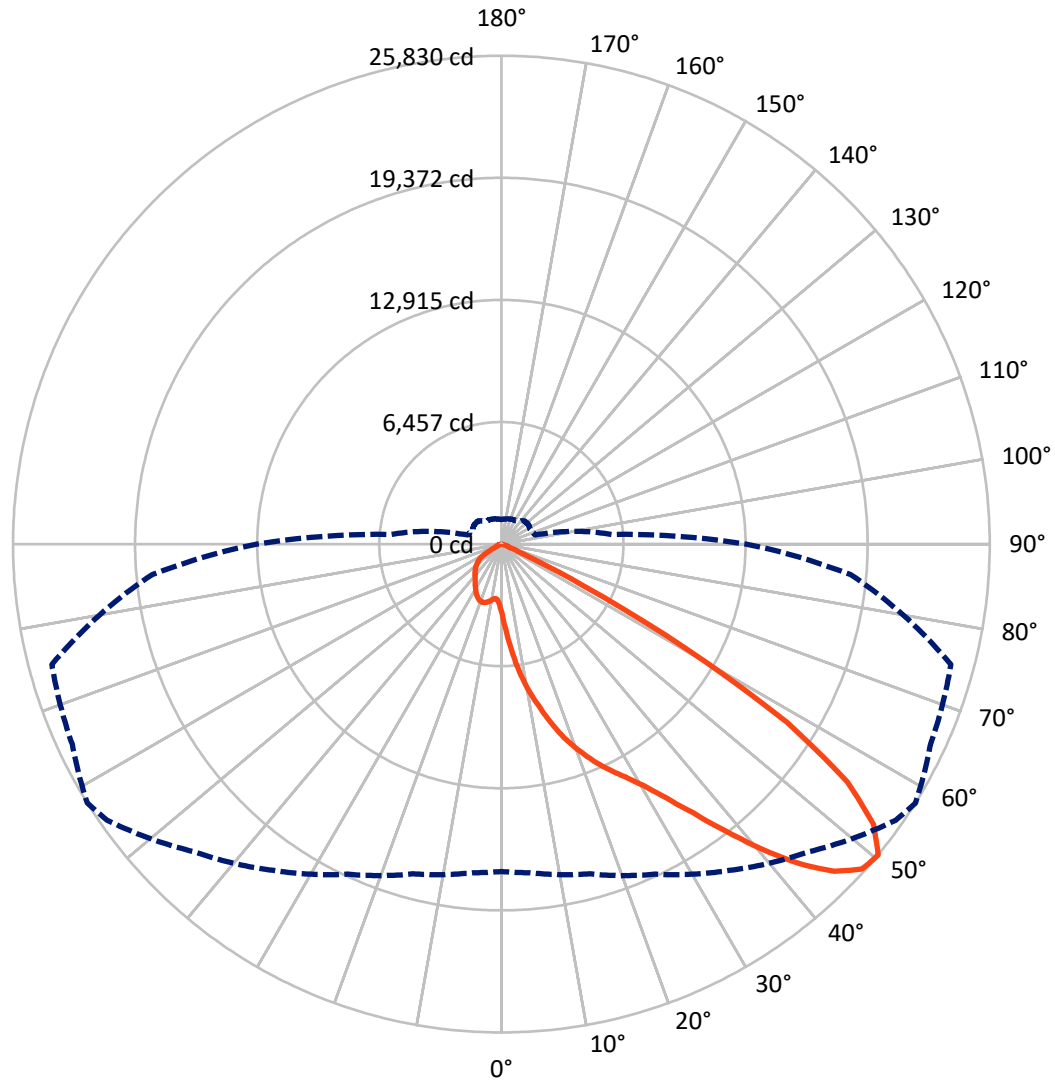
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4299.3	0.0	4299.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	26396.1	0.0	26396.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	30695.4	0.0	30695.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.2	1.5
10°-20°	1798.1	5.9
20°-30°	3638.6	11.9
30°-40°	6437.1	21.0
40°-50°	9383.9	30.6
50°-60°	7521.5	24.5
60°-70°	1355.1	4.4
70°-80°	106.8	0.3
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°	30695.4	100.0
0°-180°	30695.4	100.0

**Coefficient of Utilization**



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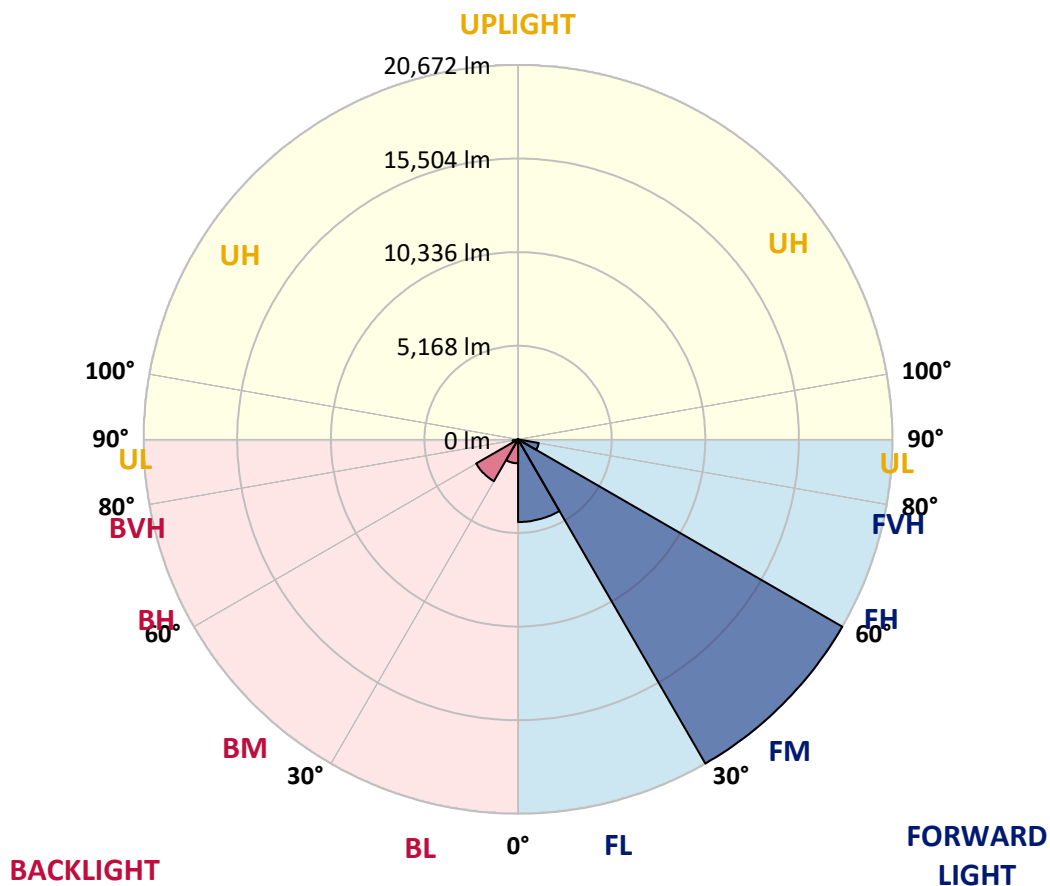
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4567.4	14.9			
FM (30°-60°)	20672.4	67.3			
FH (60°-80°)	1156.3	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1323.6	4.3	B3/2500		
BM (30°-60°)	2670.1	8.7	B3/5000		
BH (60°-80°)	305.6	1.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
2.5°	5425.9	5340.6	5291.3	5251.9	5078.0	4802.2	4621.7	4526.5	4369.0	4103.1	3873.3
5°	7080.3	7017.9	6903.0	6824.2	6601.0	6210.4	5806.7	5645.8	5288.1	4687.4	4149.0
7.5°	8176.6	8130.7	8088.0	7983.0	7772.9	7418.4	6972.0	6804.5	6253.1	5399.7	4516.7
10°	9020.2	8984.1	8934.9	8931.6	8767.5	8449.1	8012.5	7838.5	7241.1	6174.3	4950.0
12.5°	9762.0	9732.5	9722.7	9814.6	9709.5	9473.2	9000.5	8783.9	8150.4	6965.4	5429.2
15°	10270.8	10264.3	10306.9	10487.5	10546.6	10438.2	10041.1	9808.0	9079.3	7759.7	5957.7
17.5°	10503.9	10523.6	10605.6	10917.5	11180.1	11272.0	10966.7	10769.8	10001.7	8563.9	6522.3
20°	10901.1	10894.5	10943.7	11239.2	11560.8	11889.1	11797.2	11629.8	10933.9	9414.1	7149.2
22.5°	12020.4	11925.2	11820.2	11866.1	11981.0	12365.0	12535.7	12450.4	11895.7	10287.2	7795.9
25°	13740.4	13641.9	13303.8	12975.6	12758.9	12932.9	13166.0	13208.6	12850.8	11183.4	8472.0
27.5°	15565.4	15476.8	15096.1	14603.7	13983.3	13681.3	13855.3	13940.6	13789.6	12250.2	9190.9
30°	17275.6	17157.4	16740.6	16130.0	15411.2	14948.3	14751.4	14810.5	14899.1	13513.9	10034.5
32.5°	18759.3	18670.7	18171.7	17528.4	16835.8	16353.2	15893.7	15992.2	16208.8	15059.9	11114.4
35°	20016.5	19970.5	19442.0	18802.0	18070.0	17823.8	17429.9	17449.6	17666.2	16927.7	12430.7
37.5°	21109.5	21030.7	20551.5	19957.4	19376.4	19337.0	19228.7	19238.5	19350.1	19103.9	13943.9
40°	21798.8	21726.6	21385.3	21017.6	20604.0	20610.6	21171.9	21214.6	21086.6	21240.8	15542.5
42.5°	22058.2	22005.6	21821.8	21825.1	21782.4	21976.1	23029.8	23108.5	22649.0	22918.2	16908.0
45°	21608.5	21585.5	21598.6	22071.3	22583.4	23180.8	24549.6	24687.4	24037.5	24030.9	17974.8
47.5°	20157.6	20111.7	20495.7	21299.9	22484.9	23646.9	25468.6	25682.0	25009.1	24667.7	18644.4
50°	17315.0	17446.3	18053.6	19261.5	21063.6	23006.8	25458.8	25829.7	25045.2	24611.9	18532.8
52.5°	12542.3	12516.0	13845.4	15506.4	17699.0	20958.5	24106.4	24648.0	24168.8	24063.7	18283.3
55°	6824.2	7063.9	7960.0	10159.2	12896.8	17081.9	21017.6	22199.3	22754.0	23863.5	18733.0
57.5°	2507.8	2612.8	3174.1	4730.0	6827.5	10622.1	16054.5	17836.9	19550.4	23305.5	18657.5
60°	1011.0	1030.7	1253.9	1739.7	2868.9	5406.2	9630.8	11212.9	12827.9	17840.2	14318.1
62.5°	735.3	761.5	850.2	1017.6	1450.8	2363.4	4152.3	4828.5	5278.2	8836.4	7054.0
65°	594.1	613.8	686.0	761.5	958.5	1270.3	1339.2	1290.0	1283.4	2284.6	1618.3
67.5°	492.4	512.1	564.6	617.1	689.3	633.5	459.5	482.5	393.9	390.6	318.4
70°	361.1	384.0	436.6	492.4	413.6	170.7	265.9	393.9	298.7	249.5	242.9
72.5°	272.4	288.9	338.1	321.7	121.5	65.6	177.3	285.6	229.8	183.8	180.5
75°	203.5	213.4	170.7	52.5	13.1	16.4	65.6	118.2	128.0	105.0	105.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	9.8	13.1	16.4	19.7
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
2.5°	3742.0	3604.1	3407.2	3243.1	3118.3	2996.9	2905.0	2813.1	2809.8	2763.8	2754.0
5°	3899.6	3650.1	3289.0	3029.7	2872.2	2777.0	2711.3	2678.5	2662.1	2645.7	2639.1
7.5°	4126.1	3768.3	3269.3	2993.6	2862.3	2799.9	2754.0	2734.3	2724.4	2711.3	2708.0
10°	4405.1	3939.0	3341.5	3062.5	2947.7	2888.6	2839.3	2809.8	2793.4	2770.4	2763.8
12.5°	4739.9	4149.0	3456.4	3177.4	3056.0	2977.2	2911.5	2868.9	2845.9	2816.4	2809.8
15°	5100.9	4375.5	3584.5	3282.5	3138.0	3036.3	2954.2	2888.6	2845.9	2809.8	2799.9
17.5°	5475.2	4605.3	3699.3	3354.7	3177.4	3056.0	2937.8	2849.2	2796.7	2750.7	2737.6
20°	5895.3	4841.6	3774.8	3367.8	3164.3	3003.5	2865.6	2754.0	2701.5	2639.1	2626.0
22.5°	6335.2	5061.6	3807.7	3338.3	3092.1	2905.0	2757.3	2642.4	2566.9	2501.2	2481.5
25°	6761.9	5258.5	3791.2	3256.2	2983.8	2767.1	2616.1	2498.0	2415.9	2350.2	2333.8
27.5°	7214.9	5422.6	3732.2	3134.8	2836.0	2616.1	2471.7	2369.9	2294.4	2222.2	2205.8
30°	7723.6	5573.6	3637.0	2987.0	2662.1	2461.8	2350.2	2281.3	2199.3	2123.8	2100.8
32.5°	8337.5	5708.2	3499.1	2809.8	2507.8	2327.3	2264.9	2212.4	2117.2	2038.4	2022.0
35°	9039.9	5819.8	3325.1	2626.0	2356.8	2241.9	2228.8	2159.9	2035.1	1943.2	1923.5
37.5°	9854.0	5928.1	3118.3	2445.4	2245.2	2202.5	2205.8	2087.6	1936.7	1825.1	1811.9
40°	10730.4	6036.5	2888.6	2287.9	2143.4	2179.6	2150.0	1982.6	1736.4	1628.1	1615.0
42.5°	11642.9	6154.6	2655.5	2140.2	2058.1	2090.9	2048.3	1772.5	1595.3	1539.5	1532.9
45°	12466.8	6295.8	2402.8	1992.5	1972.8	1962.9	1890.7	1605.1	1529.6	1490.2	1487.0
47.5°	13060.9	6272.8	2133.6	1851.3	1880.9	1848.0	1628.1	1526.3	1464.0	1411.5	1398.3
50°	12952.6	5872.3	1854.6	1693.8	1762.7	1733.1	1464.0	1434.4	1378.6	1322.8	1303.1
52.5°	12676.9	5327.4	1611.7	1526.3	1634.7	1565.7	1352.4	1322.8	1273.6	1201.4	1178.4
55°	12824.6	4815.4	1421.3	1391.8	1503.4	1296.6	1227.6	1181.7	1129.2	1050.4	1040.5
57.5°	12348.6	3929.1	1142.3	1162.0	1329.4	1106.2	1076.6	1004.4	915.8	863.3	856.7
60°	8547.5	2110.6	715.6	738.6	961.8	928.9	965.0	899.4	791.1	741.8	732.0
62.5°	3925.8	846.9	390.6	374.2	505.5	630.2	827.2	820.6	686.0	607.3	600.7
65°	951.9	387.3	279.0	262.6	285.6	377.5	538.3	646.6	554.7	462.8	453.0
67.5°	308.6	315.1	256.0	239.6	252.7	282.3	321.7	357.8	354.5	325.0	318.4
70°	246.2	285.6	236.3	216.6	216.6	226.5	216.6	174.0	151.0	164.1	170.7
72.5°	183.8	216.6	187.1	167.4	160.8	157.6	134.6	98.5	68.9	62.4	59.1
75°	108.3	121.5	114.9	98.5	91.9	82.1	65.6	42.7	23.0	16.4	9.8
77.5°	19.7	23.0	26.3	19.7	16.4	13.1	9.8	3.3	0.0	0.0	0.0
80°	0.0	3.3	3.3	3.3	0.0	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)