

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: P638273

Luminaire Tested: GWS-SA4E-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

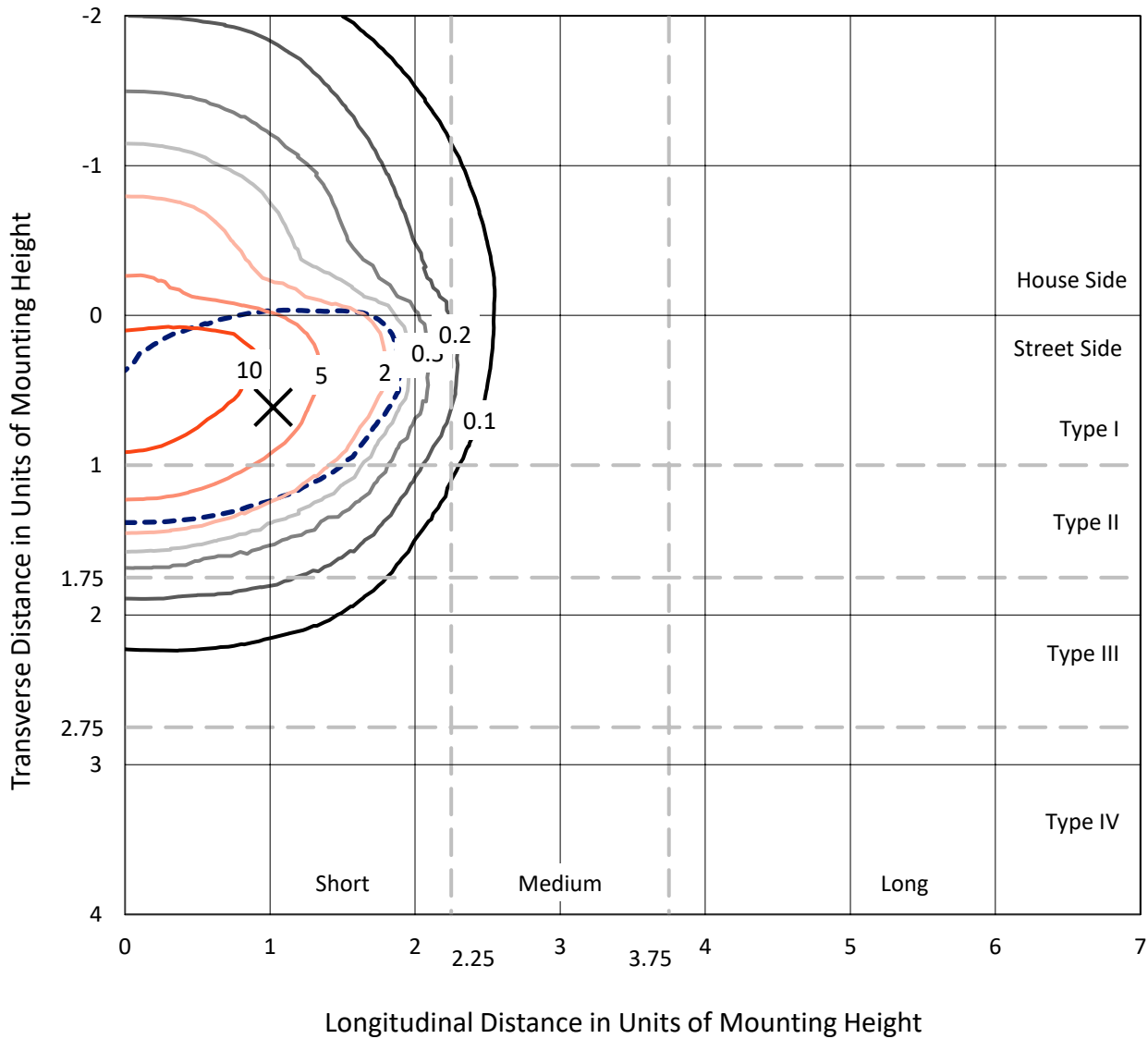
Lumens per Lamp: N/A  
Luminaire Lumens: 26933.5 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

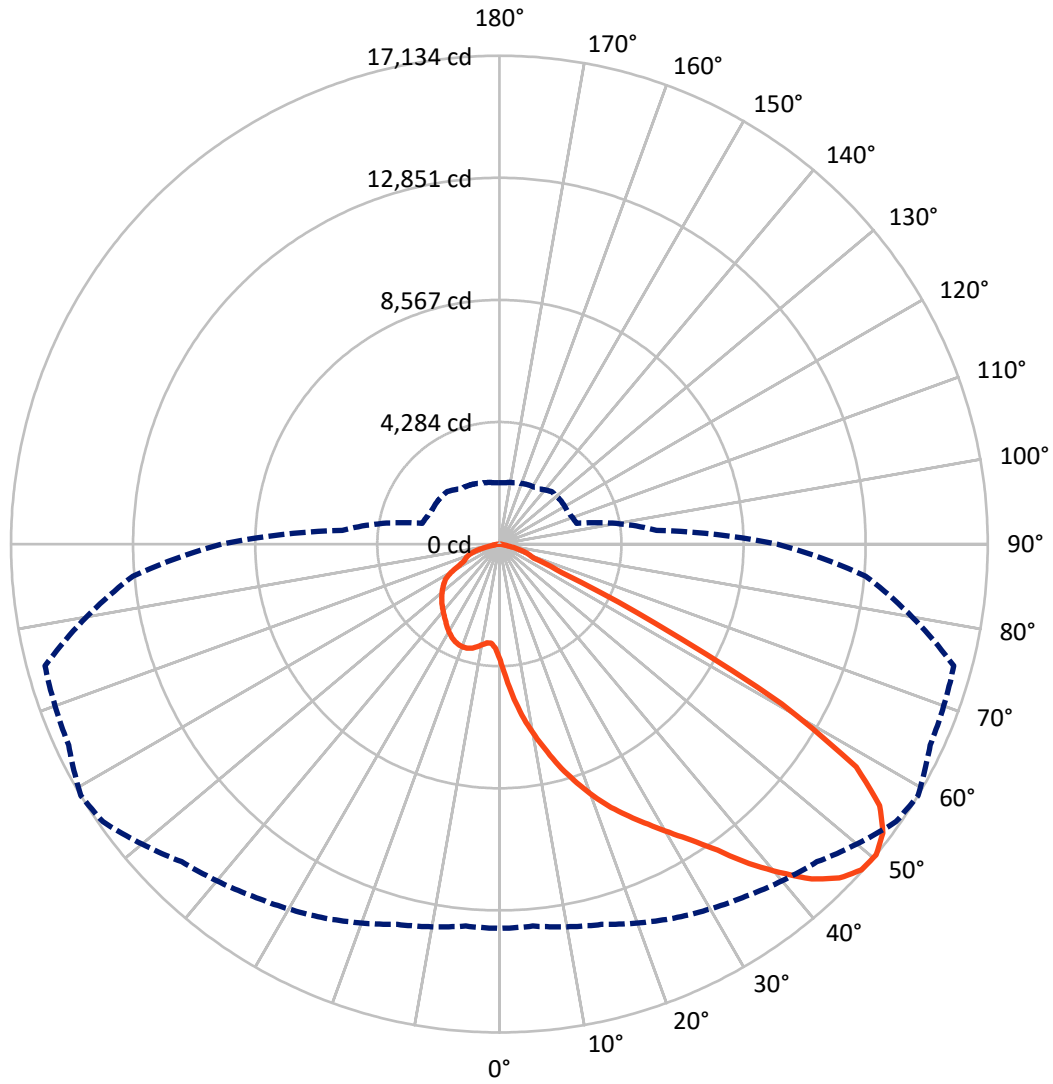
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6195.2	0.0	6195.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	20738.3	0.0	20738.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	26933.5	0.0	26933.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.8	1.7
10°-20°	1661.8	6.2
20°-30°	3146.8	11.7
30°-40°	5218.4	19.4
40°-50°	7128.5	26.5
50°-60°	6470.9	24.0
60°-70°	2154.9	8.0
70°-80°	628.5	2.3
80°-90°	66.0	0.2
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°	26933.5	100.0
0°-180°	26933.5	100.0

**Coefficient of Utilization**



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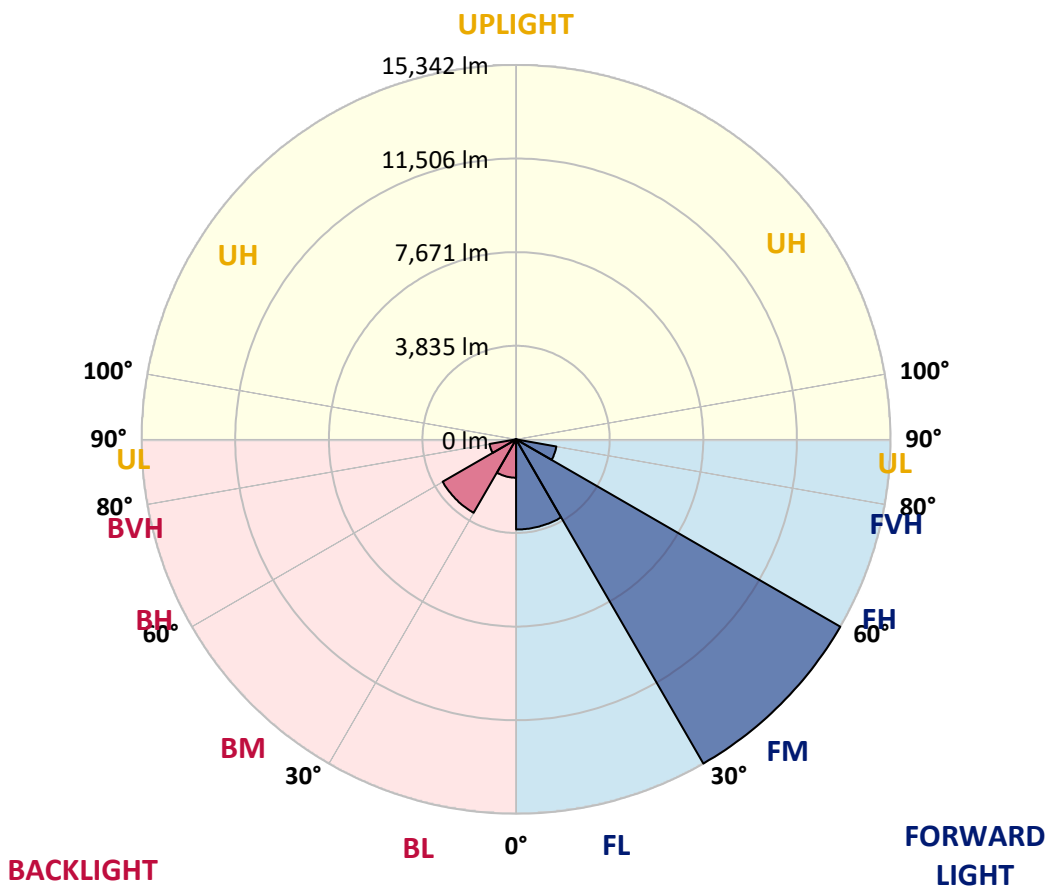
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3693.2	13.7			
FM (30°-60°)	15341.7	57.0			
FH (60°-80°)	1677.6	6.2			G1/1800
FVH (80°-90°)	25.8	0.1			G1/100
BL (0°-30°)	1573.1	5.8	B3/2500		
BM (30°-60°)	3476.1	12.9	B3/5000		
BH (60°-80°)	1105.8	4.1	B3/2500		G3/2500
BVH (80°-90°)	40.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6
2.5°	5287.2	5326.7	5265.3	5269.7	5116.1	5045.9	4848.5	4732.2	4655.4	4440.4	4245.2
5°	6353.5	6307.4	6259.1	6230.6	6096.8	5908.1	5662.4	5467.1	5287.2	4866.0	4460.2
7.5°	7007.3	6983.1	6950.2	6932.7	6801.0	6603.6	6357.9	6191.1	5930.1	5359.6	4721.2
10°	7562.3	7533.8	7514.0	7527.2	7419.7	7292.5	7024.8	6833.9	6540.0	5881.8	5037.1
12.5°	7992.3	8007.7	8014.2	8084.4	8038.4	7961.6	7685.2	7483.3	7156.4	6432.5	5407.9
15°	8332.4	8328.0	8404.8	8538.6	8613.2	8564.9	8343.3	8174.4	7775.1	6974.3	5807.2
17.5°	8411.3	8415.7	8536.4	8771.1	9014.7	9133.1	9008.1	8806.2	8411.3	7509.6	6221.8
20°	8475.0	8483.7	8608.8	8876.4	9231.8	9563.1	9582.9	9438.1	9098.0	8088.8	6643.1
22.5°	8876.4	8896.2	8929.1	9098.0	9418.3	9837.4	10067.7	10037.0	9751.8	8696.5	7097.2
25°	9931.7	9872.5	9712.3	9664.0	9786.9	10126.9	10519.7	10578.9	10438.5	9365.7	7586.4
27.5°	11234.9	11171.2	10934.3	10684.2	10418.7	10537.2	10956.2	11133.9	11136.1	10102.8	8077.9
30°	12417.4	12366.9	12173.8	11816.2	11357.7	11186.6	11495.9	11735.1	11877.7	10954.0	8637.3
32.5°	13428.7	13382.7	13121.6	12829.8	12382.3	12037.8	12149.7	12380.1	12713.5	12055.4	9332.8
35°	14280.0	14233.9	13983.8	13689.8	13275.2	13068.9	13029.4	13187.4	13619.6	13205.0	10131.3
37.5°	14971.0	14925.0	14663.9	14387.5	14071.5	14084.7	14143.9	14220.7	14468.6	14435.7	10984.8
40°	15418.6	15370.3	15183.8	14986.4	14786.7	14944.7	15238.7	15146.5	15278.2	15429.6	11770.2
42.5°	15618.2	15556.8	15449.3	15405.4	15344.0	15589.7	16155.7	16063.6	15905.6	16092.1	12353.7
45°	15418.6	15365.9	15363.7	15497.6	15640.2	15956.1	16789.8	16715.2	16315.9	16412.4	12702.6
47.5°	14806.5	14760.4	14885.5	15236.5	15587.5	16048.2	17072.8	17085.9	16607.7	16546.2	12928.5
50°	13483.6	13452.9	13814.9	14479.6	15085.1	15760.8	16982.8	17134.2	16677.9	16504.6	12900.0
52.5°	10793.9	10936.5	11724.1	12834.2	14010.1	15256.2	16649.4	16846.8	16340.0	16230.3	12746.4
55°	7389.0	7454.8	8242.4	9863.7	11728.5	14163.7	15883.7	16188.6	15940.7	16184.2	12906.6
57.5°	3826.1	3878.8	4499.6	5938.8	7955.0	11193.2	13757.8	14758.2	15135.6	16416.8	13404.6
60°	1570.8	1614.7	1871.4	2566.8	4012.6	6518.0	9901.0	11384.0	12270.4	14993.0	11904.0
62.5°	1140.8	1162.8	1285.6	1531.3	2101.7	3194.3	5603.2	6149.4	6772.5	9396.4	7557.9
65°	960.9	985.1	1083.8	1233.0	1533.5	1959.1	2393.5	2406.7	2652.4	3828.3	2801.6
67.5°	805.2	827.1	914.8	1042.1	1239.5	1390.9	1285.6	1287.8	1283.4	1388.7	1342.7
70°	627.4	645.0	732.8	868.8	971.9	892.9	1004.8	1112.3	1066.2	1107.9	1171.5
72.5°	458.5	478.3	555.1	658.2	631.8	636.2	813.9	923.6	897.3	943.4	1002.6
75°	331.3	344.4	383.9	329.1	346.6	419.0	572.6	631.8	658.2	697.7	750.3
77.5°	107.5	107.5	120.7	151.4	188.7	232.6	291.8	315.9	355.4	399.3	436.6
80°	54.8	57.0	68.0	83.4	105.3	133.8	171.1	182.1	201.8	226.0	241.3
82.5°	26.3	28.5	32.9	41.7	54.8	70.2	94.3	105.3	118.5	133.8	144.8
85°	6.6	6.6	8.8	13.2	17.6	26.3	35.1	41.7	52.7	63.6	70.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	6.6	8.8	11.0	13.2	17.6
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°	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6	4080.6
2.5°	4157.4	4034.5	3876.6	3742.8	3619.9	3525.6	3444.4	3404.9	3367.6	3341.3	3350.1
5°	4271.5	4060.9	3766.9	3562.9	3437.8	3374.2	3330.3	3308.4	3304.0	3286.4	3279.8
7.5°	4438.2	4137.7	3745.0	3538.7	3455.4	3422.5	3398.3	3385.2	3391.7	3374.2	3367.6
10°	4644.4	4264.9	3799.8	3617.7	3545.3	3521.2	3494.8	3477.3	3468.5	3442.2	3437.8
12.5°	4901.1	4422.9	3898.5	3718.6	3646.2	3604.5	3569.4	3538.7	3519.0	3486.1	3477.3
15°	5177.6	4598.4	4014.8	3817.4	3731.8	3670.4	3613.3	3567.2	3532.1	3488.3	3481.7
17.5°	5478.1	4782.7	4111.3	3885.4	3775.7	3694.5	3611.1	3543.1	3494.8	3437.8	3431.2
20°	5791.8	4969.1	4183.7	3918.3	3777.9	3668.2	3556.3	3466.3	3404.9	3347.9	3343.5
22.5°	6116.5	5140.3	4227.6	3909.5	3742.8	3606.7	3472.9	3372.0	3299.6	3231.6	3227.2
25°	6443.4	5304.8	4238.6	3874.4	3672.6	3514.6	3380.8	3262.3	3181.1	3104.3	3095.6
27.5°	6774.7	5443.0	4212.2	3804.2	3578.2	3407.1	3273.3	3157.0	3073.6	2996.8	2983.7
30°	7127.9	5561.5	4155.2	3712.0	3468.5	3293.0	3161.4	3073.6	2994.6	2917.9	2904.7
32.5°	7505.3	5664.6	4074.0	3600.2	3341.3	3178.9	3082.4	3003.4	2924.4	2856.4	2843.3
35°	7955.0	5732.6	3953.4	3455.4	3222.8	3095.6	3029.7	2937.6	2841.1	2766.5	2759.9
37.5°	8420.1	5785.3	3808.6	3317.1	3119.7	3047.3	2992.5	2867.4	2746.7	2656.8	2645.8
40°	8869.9	5829.1	3628.7	3187.7	3025.4	3012.2	2937.6	2781.8	2573.4	2472.5	2463.7
42.5°	9288.9	5842.3	3440.0	3049.5	2939.8	2933.2	2849.8	2608.5	2448.4	2384.7	2376.0
45°	9576.3	5831.3	3244.7	2920.1	2854.2	2819.1	2731.4	2483.5	2384.7	2327.7	2316.7
47.5°	9789.1	5774.3	3025.4	2784.0	2757.7	2709.4	2520.8	2404.5	2312.3	2255.3	2244.3
50°	9751.8	5537.4	2803.8	2652.4	2641.4	2599.7	2367.2	2305.8	2224.6	2163.2	2154.4
52.5°	9558.7	5087.6	2577.8	2507.6	2529.5	2448.4	2257.5	2187.3	2117.1	2046.9	2031.5
55°	9607.0	4762.9	2406.7	2367.2	2406.7	2222.4	2134.6	2060.1	1994.2	1926.2	1913.1
57.5°	9817.6	4442.6	2224.6	2215.8	2257.5	2049.1	1976.7	1882.3	1788.0	1733.2	1733.2
60°	8244.6	3238.2	1904.3	1926.2	2020.6	1908.7	1845.1	1748.5	1645.4	1597.1	1597.1
62.5°	4874.8	2031.5	1579.6	1555.5	1614.7	1684.9	1720.0	1641.0	1518.2	1454.5	1456.7
65°	2147.8	1478.7	1393.1	1373.4	1355.8	1404.1	1500.6	1507.2	1377.8	1303.2	1305.4
67.5°	1322.9	1338.3	1303.2	1287.8	1272.5	1263.7	1254.9	1259.3	1224.2	1156.2	1154.0
70°	1193.5	1235.2	1211.0	1197.9	1178.1	1162.8	1110.1	1024.5	965.3	947.8	967.5
72.5°	1026.7	1083.8	1070.6	1064.0	1039.9	1002.6	932.4	849.0	778.8	734.9	743.7
75°	774.4	820.5	827.1	829.3	803.0	767.9	695.5	625.3	563.8	517.8	528.7
77.5°	445.4	471.7	478.3	484.8	465.1	451.9	403.7	353.2	320.3	272.0	285.2
80°	247.9	258.9	258.9	261.1	250.1	234.7	201.8	173.3	158.0	136.0	138.2
82.5°	149.2	153.6	155.8	158.0	151.4	136.0	111.9	92.1	83.4	72.4	70.2
85°	72.4	76.8	76.8	79.0	68.0	59.2	46.1	35.1	30.7	21.9	24.1
87.5°	17.6	19.7	19.7	17.6	15.4	11.0	6.6	2.2	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)