

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: P640839

Luminaire Tested: GWS-SA5E-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-760-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

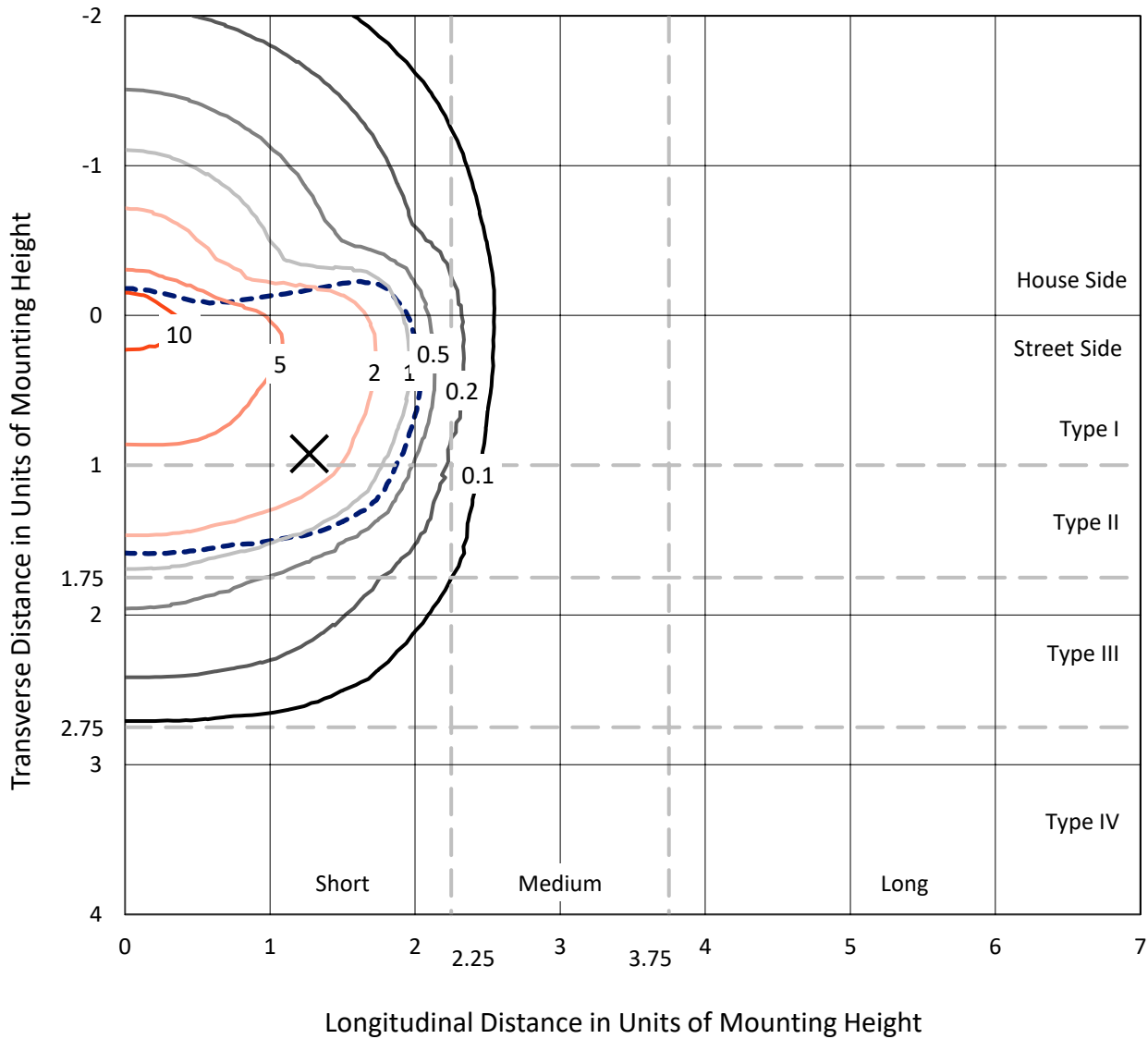
Lumens per Lamp: N/A  
Luminaire Lumens: 31718.1 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

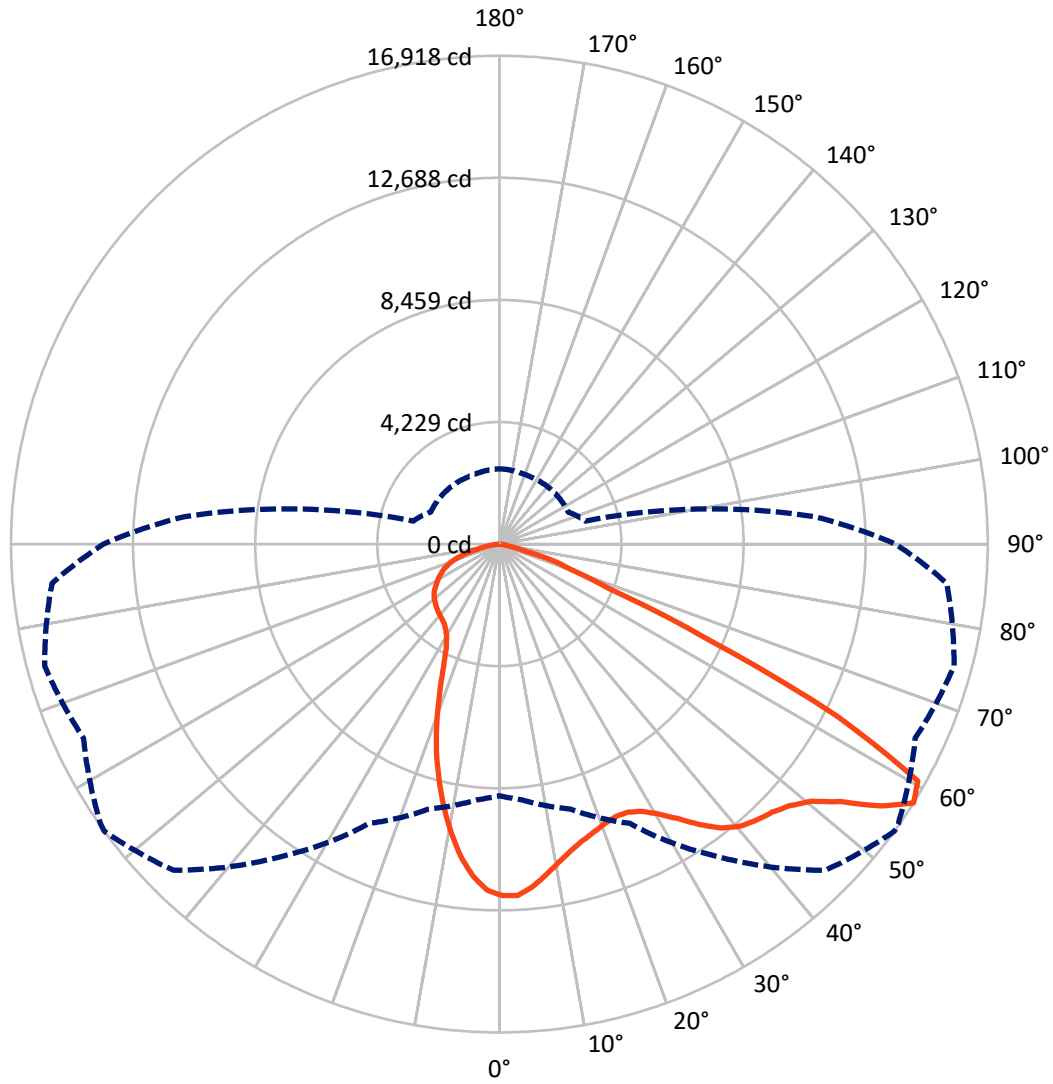
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9220.8	0.0	9220.8
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	22497.3	0.0	22497.3
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	31718.1	0.0	31718.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1070.4	3.4
10°-20°	2554.0	8.1
20°-30°	3534.4	11.1
30°-40°	4911.1	15.5
40°-50°	6486.0	20.4
50°-60°	7707.7	24.3
60°-70°	4270.2	13.5
70°-80°	1063.4	3.4
80°-90°	120.9	0.4
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°	31718.1	100.0
0°-180°	31718.1	100.0

**Coefficient of Utilization**



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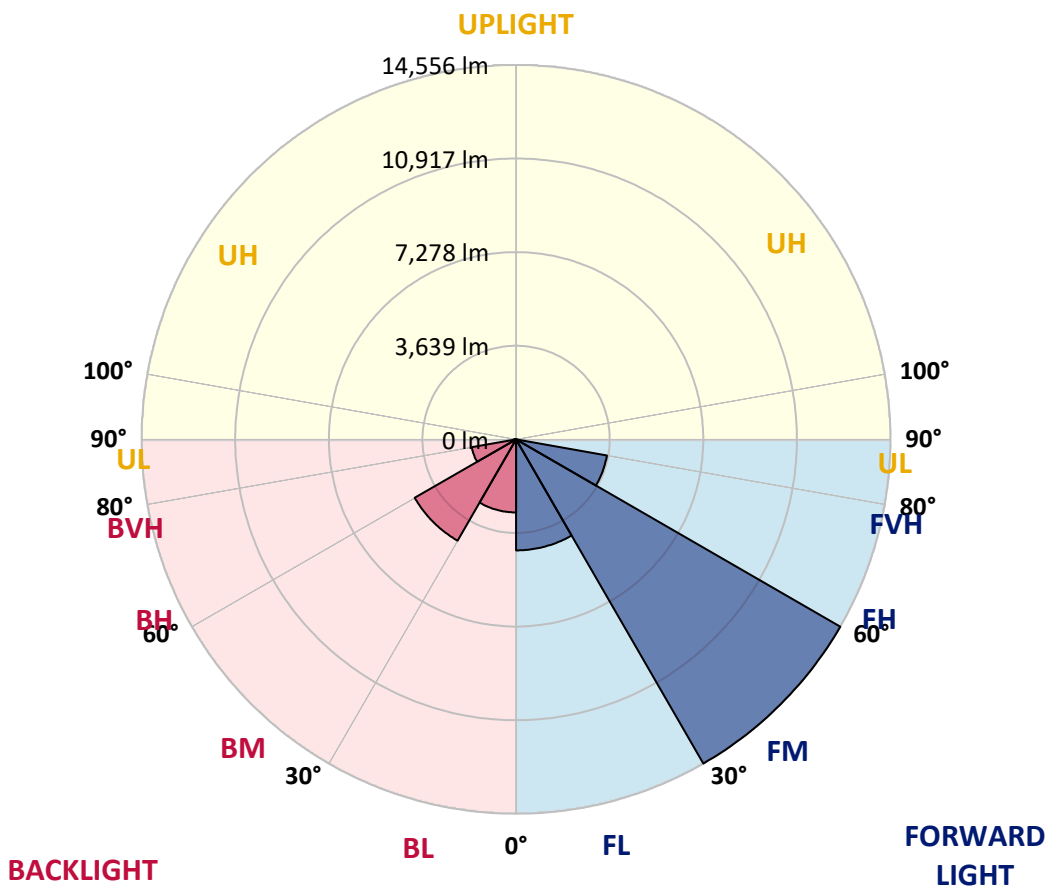
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4317.3	13.6			
FM (30°-60°)	14555.9	45.9			
FH (60°-80°)	3586.2	11.3			G2/5000
FVH (80°-90°)	37.8	0.1			G1/100
BL (0°-30°)	2841.5	9.0	B4/5000		
BM (30°-60°)	4548.9	14.3	B3/5000		
BH (60°-80°)	1747.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	83.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3
2.5°	11949.2	11973.7	11990.0	12047.0	12095.8	12139.3	12185.4	12185.4	12182.7	12174.6	12158.3
5°	11476.8	11503.9	11542.0	11620.7	11726.6	11802.6	11927.5	11938.4	11992.7	12014.4	12003.5
7.5°	10928.3	10936.5	10985.4	11088.5	11256.9	11392.6	11571.8	11593.5	11723.9	11799.9	11786.3
10°	10328.3	10301.2	10388.0	10540.1	10760.0	10988.1	11218.9	11237.9	11446.9	11590.8	11580.0
12.5°	9779.9	9782.6	9869.4	10054.1	10328.3	10610.7	10920.2	10963.6	11221.6	11406.2	11387.2
15°	9321.0	9331.9	9437.7	9646.8	9959.0	10295.7	10681.3	10722.0	11047.8	11292.2	11237.9
17.5°	8954.5	8965.3	9057.6	9296.6	9630.5	10037.8	10507.5	10548.2	10952.8	11243.3	11132.0
20°	8701.9	8696.5	8786.1	9014.2	9359.0	9801.6	10355.5	10415.2	10922.9	11262.3	11061.4
22.5°	8598.8	8596.1	8661.2	8848.6	9171.7	9619.7	10263.1	10344.6	10955.5	11346.5	11017.9
25°	8650.4	8639.5	8696.5	8835.0	9092.9	9549.1	10290.3	10377.2	11094.0	11520.2	11026.1
27.5°	8810.6	8797.0	8845.9	8970.7	9166.2	9622.4	10480.4	10580.8	11387.2	11837.9	11134.7
30°	9054.9	9046.8	9095.6	9215.1	9386.2	9866.7	10844.2	10958.2	11840.6	12332.1	11370.9
32.5°	9340.0	9326.4	9413.3	9551.8	9750.0	10312.0	11332.9	11482.2	12378.2	12967.4	11767.3
35°	9660.4	9649.5	9769.0	9969.9	10255.0	10931.1	11924.8	12087.7	12926.7	13686.9	12294.0
37.5°	9972.6	9972.6	10203.4	10502.1	10860.5	11604.4	12481.4	12584.6	13306.8	14325.0	12858.8
40°	10249.6	10265.9	10613.4	11061.4	11517.5	12212.6	12847.9	12934.8	13475.1	14764.8	13350.2
42.5°	10556.4	10569.9	10974.5	11561.0	12104.0	12704.0	13070.6	13114.0	13507.7	14984.7	13697.8
45°	10800.7	10819.7	11322.0	11949.2	12614.4	13073.3	13247.1	13285.1	13553.9	15104.2	13950.3
47.5°	10928.3	10955.5	11531.1	12261.5	12959.3	13404.5	13537.6	13553.9	13743.9	15313.3	14254.4
50°	10906.6	10960.9	11609.8	12416.2	13214.5	13738.5	14004.6	14031.7	14132.2	15620.1	14610.0
52.5°	11099.4	11123.8	11778.2	12600.9	13578.3	14354.8	14816.4	14854.4	14808.2	15850.9	14821.8
55°	10779.0	10895.8	11569.1	12573.7	14132.2	15307.8	16019.2	16000.2	15421.9	16108.8	15174.8
57.5°	8718.2	8889.3	9505.6	10673.1	13219.9	15975.7	16917.9	16871.7	15897.0	16307.0	15557.6
60°	6035.7	6062.9	6619.5	7447.6	10203.4	14113.2	16654.5	16755.0	15983.9	16057.2	14849.0
62.5°	4827.5	4819.3	4870.9	4892.6	6489.1	9921.0	13146.6	13513.1	13279.6	12511.3	10523.8
65°	4121.5	4151.4	4303.5	4224.7	4235.6	5587.7	7854.8	7906.4	7743.5	7466.6	5566.0
67.5°	3225.6	3277.1	3545.9	3852.8	3755.0	3597.5	4075.4	4051.0	3193.0	2470.8	2041.8
70°	2020.0	2052.6	2340.4	3024.6	3269.0	2954.0	2620.1	2609.2	1710.5	1406.4	1542.2
72.5°	1178.4	1183.8	1265.2	1686.1	2169.4	2020.0	1927.7	1857.1	1099.6	1121.3	1229.9
75°	648.9	648.9	646.2	727.7	855.3	757.5	733.1	714.1	735.8	833.5	915.0
77.5°	135.8	138.5	146.6	192.8	249.8	304.1	382.8	385.5	480.6	556.6	621.8
80°	62.4	65.2	81.5	103.2	133.0	176.5	233.5	236.2	290.5	350.3	393.7
82.5°	32.6	35.3	43.4	54.3	70.6	92.3	130.3	130.3	173.8	206.3	233.5
85°	10.9	10.9	16.3	21.7	29.9	38.0	51.6	51.6	76.0	100.5	116.8
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	10.9	10.9	13.6	16.3	27.2
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°	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3	12177.3
2.5°	12123.0	12038.8	12041.5	12057.8	12006.2	11927.5	11875.9	11810.8	11770.0	11761.9	11791.8
5°	11949.2	11851.5	11783.6	11713.0	11566.4	11392.6	11256.9	11145.6	11072.2	11045.1	11012.5
7.5°	11710.3	11582.7	11411.6	11213.4	10947.4	10637.8	10420.6	10217.0	10075.8	10035.1	10016.1
10°	11471.4	11286.7	10982.6	10613.4	10170.8	9752.7	9359.0	9057.6	8818.7	8682.9	8726.4
12.5°	11224.3	10996.2	10521.1	9953.6	9337.3	8707.4	8191.5	7691.9	7306.4	7113.6	7056.6
15°	11007.1	10697.6	10035.1	9266.7	8446.7	7653.9	6907.3	6157.9	5669.2	5403.1	5329.8
17.5°	10822.5	10420.6	9521.9	8566.2	7586.0	6456.5	5538.8	4843.8	4509.8	4363.2	4352.3
20°	10640.5	10149.1	9014.2	7811.4	6592.3	5327.1	4507.1	4181.3	4061.8	4010.2	4007.5
22.5°	10477.6	9864.0	8479.3	7056.6	5604.0	4477.2	4026.5	3885.3	3852.8	3852.8	3847.3
25°	10339.2	9578.9	7930.9	6255.6	4710.7	3985.8	3776.7	3717.0	3730.6	3755.0	3757.7
27.5°	10282.1	9356.3	7401.4	5432.9	4094.4	3700.7	3605.7	3597.5	3635.5	3673.6	3679.0
30°	10341.9	9204.2	6858.4	4645.6	3725.1	3526.9	3483.5	3499.8	3545.9	3584.0	3584.0
32.5°	10526.5	9128.2	6304.5	4070.0	3510.6	3404.8	3391.2	3407.5	3442.8	3464.5	3467.2
35°	10838.7	9158.1	5731.6	3681.7	3372.2	3315.2	3312.4	3323.3	3336.9	3350.5	3353.2
37.5°	11232.4	9291.1	5118.0	3456.3	3282.6	3250.0	3244.6	3241.8	3244.6	3244.6	3247.3
40°	11618.0	9492.0	4569.5	3323.3	3220.1	3193.0	3179.4	3160.4	3157.7	3152.3	3149.5
42.5°	11903.1	9646.8	4132.4	3228.3	3163.1	3130.5	3114.2	3084.4	3081.7	3078.9	3076.2
45°	12117.6	9777.1	3768.6	3136.0	3103.4	3073.5	3038.2	3011.1	3016.5	3021.9	3021.9
47.5°	12359.2	9891.2	3502.5	3049.1	3030.1	3000.2	2956.8	2937.8	2956.8	2975.8	2975.8
50°	12652.4	10051.4	3285.3	2962.2	2954.0	2918.8	2880.7	2872.6	2894.3	2921.5	2921.5
52.5°	12866.9	10189.8	3130.5	2875.3	2875.3	2829.2	2796.6	2793.9	2818.3	2845.4	2848.2
55°	13268.8	10512.9	3076.2	2774.8	2764.0	2728.7	2704.3	2685.3	2715.1	2739.6	2739.6
57.5°	13722.2	10941.9	3089.8	2630.9	2617.4	2606.5	2587.5	2565.8	2573.9	2601.1	2603.8
60°	12761.0	10111.1	2940.5	2487.0	2478.9	2473.5	2449.0	2411.0	2421.9	2443.6	2446.3
62.5°	8913.7	6719.9	2378.4	2307.8	2335.0	2332.3	2299.7	2256.3	2259.0	2288.8	2288.8
65°	4626.6	3635.5	2087.9	2144.9	2185.7	2169.4	2115.1	2077.1	2071.6	2109.6	2101.5
67.5°	1995.6	1984.8	1900.6	1973.9	2017.3	1982.0	1925.0	1862.6	1868.0	1881.6	1870.7
70°	1607.3	1656.2	1691.5	1770.3	1805.6	1740.4	1677.9	1642.6	1612.8	1610.1	1591.1
72.5°	1284.3	1352.1	1430.9	1512.3	1523.2	1458.0	1379.3	1346.7	1300.5	1297.8	1278.8
75°	966.6	1023.6	1086.0	1151.2	1151.2	1088.8	1037.2	1020.9	966.6	950.3	934.0
77.5°	659.8	695.1	743.9	760.2	776.5	752.1	700.5	673.3	610.9	594.6	572.9
80°	415.4	439.8	469.7	480.6	496.9	467.0	426.3	396.4	353.0	339.4	328.5
82.5°	249.8	266.1	285.1	290.5	304.1	282.4	244.4	222.6	198.2	187.3	179.2
85°	127.6	135.8	146.6	149.3	146.6	124.9	111.3	100.5	84.2	81.5	76.0
87.5°	32.6	38.0	40.7	38.0	35.3	27.2	19.0	13.6	5.4	5.4	2.7
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)