

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: P641683

Luminaire Tested: GWS-SA6B-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641683  
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-SA6B-735-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

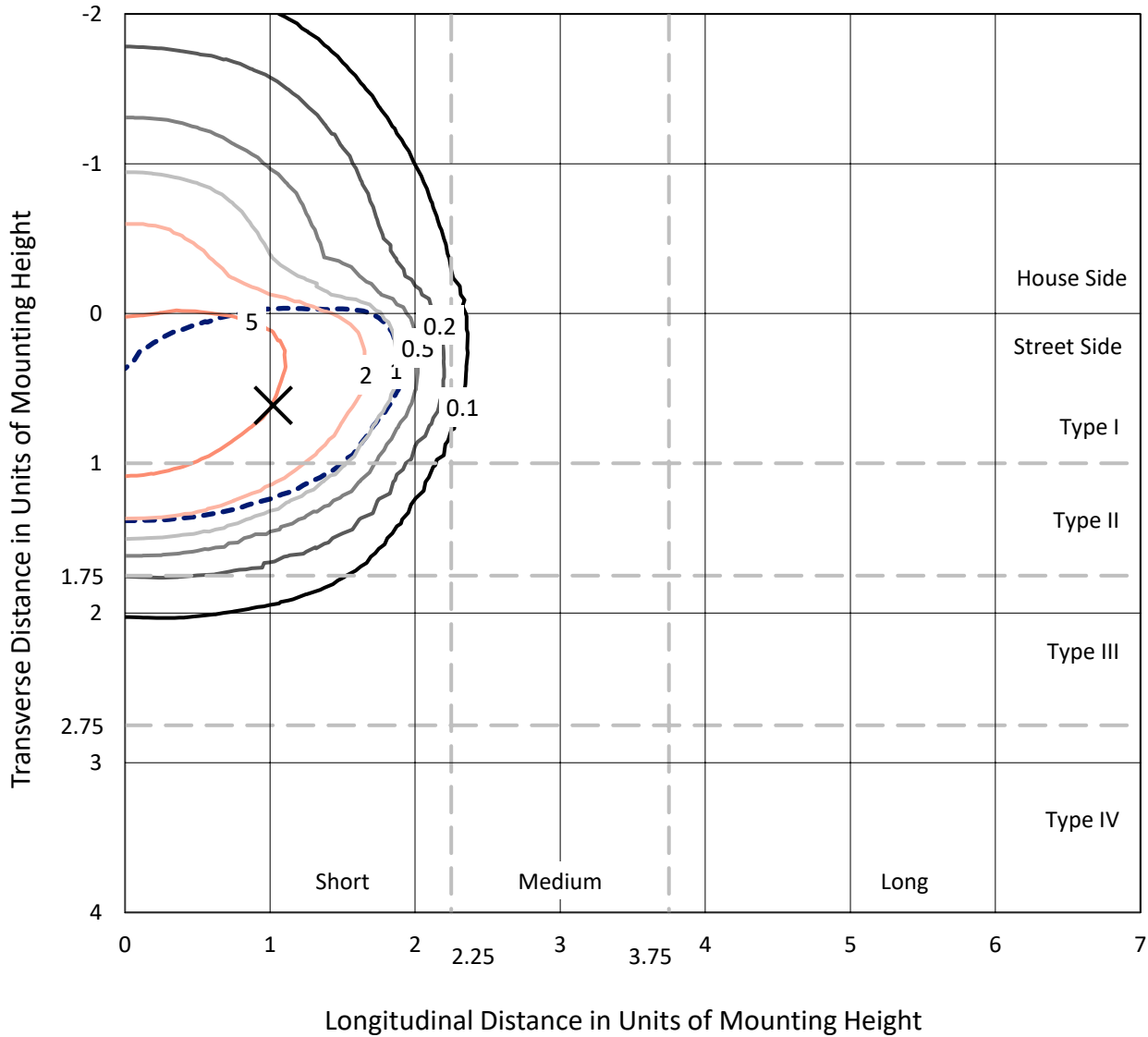
Lumens per Lamp: N/A  
Luminaire Lumens: 18378.6 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

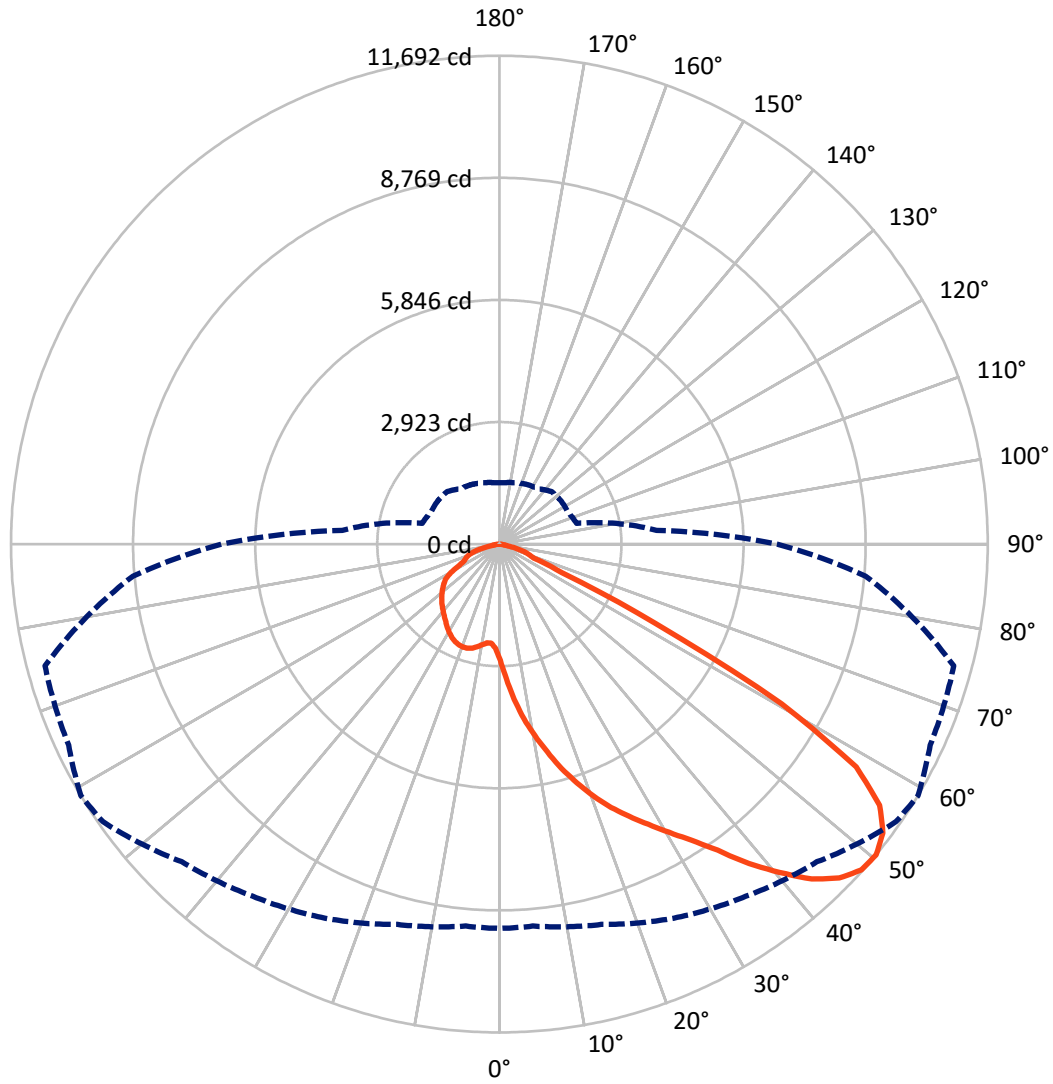
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4227.4	0.0	4227.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	14151.2	0.0	14151.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	18378.6	0.0	18378.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.4	1.7
10°-20°	1134.0	6.2
20°-30°	2147.3	11.7
30°-40°	3560.8	19.4
40°-50°	4864.3	26.5
50°-60°	4415.5	24.0
60°-70°	1470.4	8.0
70°-80°	428.9	2.3
80°-90°	45.1	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°	18378.6	100.0
0°-180°	18378.6	100.0

**Coefficient of Utilization**



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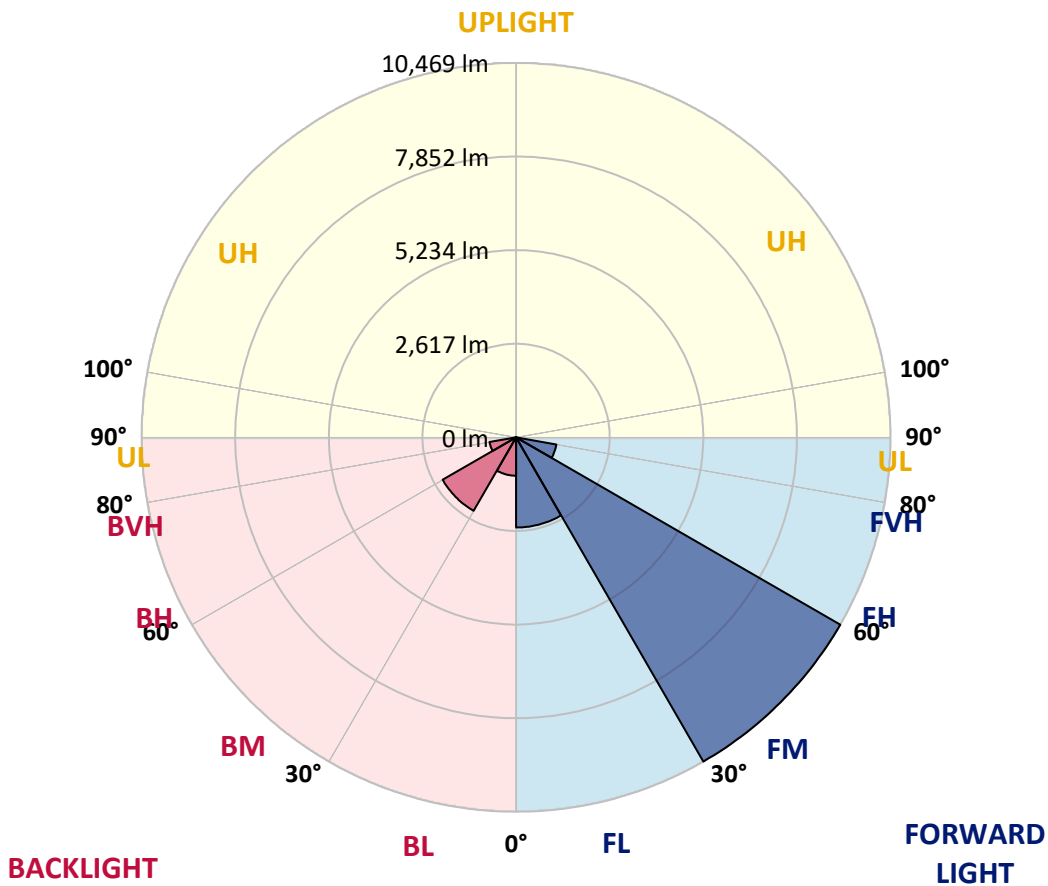
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.2	13.7			
FM (30°-60°)	10468.7	57.0			
FH (60°-80°)	1144.7	6.2			G1/1800
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1073.4	5.8	B3/2500		
BM (30°-60°)	2372.0	12.9	B2/2500		
BH (60°-80°)	754.6	4.1	B2/1000		G2/1000
BVH (80°-90°)	27.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5
2.5°	3607.9	3634.8	3592.9	3595.9	3491.1	3443.2	3308.5	3229.1	3176.7	3030.0	2896.8
5°	4335.4	4304.0	4271.0	4251.6	4160.3	4031.5	3863.9	3730.6	3607.9	3320.4	3043.5
7.5°	4781.5	4765.1	4742.6	4730.6	4640.8	4506.1	4338.4	4224.6	4046.5	3657.3	3221.6
10°	5160.3	5140.8	5127.3	5136.3	5063.0	4976.1	4793.5	4663.3	4462.7	4013.6	3437.2
12.5°	5453.7	5464.2	5468.7	5516.6	5485.1	5432.7	5244.1	5106.4	4883.3	4389.3	3690.2
15°	5685.7	5682.8	5735.1	5826.5	5877.4	5844.4	5693.2	5578.0	5305.5	4759.1	3962.7
17.5°	5739.6	5742.6	5825.0	5985.2	6151.3	6232.2	6146.8	6009.1	5739.6	5124.4	4245.6
20°	5783.1	5789.0	5874.4	6057.0	6299.5	6525.6	6539.1	6440.3	6208.2	5519.6	4533.0
22.5°	6057.0	6070.5	6092.9	6208.2	6426.8	6712.7	6869.9	6848.9	6654.3	5934.3	4842.9
25°	6777.1	6736.7	6627.4	6594.4	6678.3	6910.3	7178.3	7218.7	7122.9	6390.8	5176.8
27.5°	7666.3	7622.9	7461.2	7290.6	7109.4	7190.3	7476.2	7597.5	7599.0	6893.9	5512.1
30°	8473.2	8438.8	8307.1	8063.0	7750.2	7633.4	7844.5	8007.6	8105.0	7474.7	5893.8
32.5°	9163.4	9131.9	8953.8	8754.7	8449.3	8214.2	8290.6	8447.8	8675.3	8226.2	6368.4
35°	9744.2	9712.8	9542.1	9341.5	9058.6	8917.8	8890.9	8998.7	9293.6	9010.7	6913.3
37.5°	10215.8	10184.3	10006.2	9817.6	9602.0	9611.0	9651.4	9703.8	9873.0	9850.5	7495.7
40°	10521.2	10488.2	10361.0	10226.3	10090.0	10197.8	10398.4	10335.5	10425.4	10528.7	8031.6
42.5°	10657.4	10615.5	10542.1	10512.2	10470.3	10637.9	11024.2	10961.3	10853.5	10980.8	8429.8
45°	10521.2	10485.2	10483.7	10575.1	10672.4	10887.9	11456.8	11405.9	11133.5	11199.3	8667.8
47.5°	10103.5	10072.1	10157.4	10396.9	10636.4	10950.8	11649.9	11658.9	11332.6	11290.6	8822.0
50°	9200.8	9179.8	9426.8	9880.4	10293.6	10754.7	11588.6	11691.9	11380.5	11262.2	8802.6
52.5°	7365.4	7462.7	8000.2	8757.7	9560.1	10410.4	11361.0	11495.7	11149.9	11075.1	8697.8
55°	5042.0	5086.9	5624.4	6730.7	8003.2	9664.9	10838.5	11046.6	10877.5	11043.6	8807.1
57.5°	2610.8	2646.8	3070.4	4052.5	5428.3	7637.9	9387.9	10070.6	10328.1	11202.3	9146.9
60°	1071.9	1101.8	1277.0	1751.5	2738.1	4447.7	6756.1	7768.1	8372.9	10230.7	8122.9
62.5°	778.5	793.4	877.3	1044.9	1434.2	2179.7	3823.4	4196.2	4621.4	6411.8	5157.3
65°	655.7	672.2	739.5	841.3	1046.4	1336.9	1633.3	1642.2	1809.9	2612.3	1911.7
67.5°	549.4	564.4	624.3	711.1	845.8	949.1	877.3	878.8	875.8	947.6	916.2
70°	428.2	440.1	500.0	592.8	663.2	609.3	685.6	759.0	727.6	756.0	799.4
72.5°	312.9	326.4	378.8	449.1	431.1	434.1	555.4	630.3	612.3	643.7	684.1
75°	226.1	235.0	262.0	224.6	236.5	285.9	390.7	431.1	449.1	476.1	512.0
77.5°	73.4	73.4	82.3	103.3	128.7	158.7	199.1	215.6	242.5	272.5	297.9
80°	37.4	38.9	46.4	56.9	71.9	91.3	116.8	124.3	137.7	154.2	164.7
82.5°	18.0	19.5	22.5	28.4	37.4	47.9	64.4	71.9	80.8	91.3	98.8
85°	4.5	4.5	6.0	9.0	12.0	18.0	24.0	28.4	35.9	43.4	47.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	4.5	6.0	7.5	9.0	12.0
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°	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5	2784.5
2.5°	2836.9	2753.1	2645.3	2553.9	2470.1	2405.7	2350.3	2323.4	2298.0	2280.0	2286.0
5°	2914.7	2771.0	2570.4	2431.2	2345.9	2302.4	2272.5	2257.5	2254.5	2242.6	2238.1
7.5°	3028.5	2823.4	2555.4	2414.7	2357.8	2335.4	2318.9	2309.9	2314.4	2302.4	2298.0
10°	3169.2	2910.2	2592.9	2468.6	2419.2	2402.7	2384.8	2372.8	2366.8	2348.9	2345.9
12.5°	3344.4	3018.0	2660.2	2537.5	2488.1	2459.6	2435.7	2414.7	2401.2	2378.8	2372.8
15°	3533.0	3137.8	2739.6	2604.8	2546.5	2504.5	2465.6	2434.2	2410.2	2380.3	2375.8
17.5°	3738.1	3263.5	2805.4	2651.3	2576.4	2521.0	2464.1	2417.7	2384.8	2345.9	2341.4
20°	3952.2	3390.8	2854.8	2673.7	2577.9	2503.0	2426.7	2365.3	2323.4	2284.5	2281.5
22.5°	4173.7	3507.6	2884.8	2667.7	2553.9	2461.1	2369.8	2300.9	2251.5	2205.1	2202.1
25°	4396.8	3619.8	2892.3	2643.8	2506.0	2398.3	2306.9	2226.1	2170.7	2118.3	2112.3
27.5°	4622.8	3714.1	2874.3	2595.9	2441.7	2324.9	2233.6	2154.2	2097.3	2045.0	2036.0
30°	4863.9	3795.0	2835.4	2533.0	2366.8	2247.1	2157.2	2097.3	2043.5	1991.1	1982.1
32.5°	5121.4	3865.3	2780.0	2456.6	2280.0	2169.2	2103.3	2049.4	1995.5	1949.1	1940.2
35°	5428.3	3911.8	2697.7	2357.8	2199.1	2112.3	2067.4	2004.5	1938.7	1887.8	1883.3
37.5°	5745.6	3947.7	2598.9	2263.5	2128.8	2079.4	2042.0	1956.6	1874.3	1812.9	1805.4
40°	6052.5	3977.6	2476.1	2175.2	2064.4	2055.4	2004.5	1898.2	1756.0	1687.2	1681.2
42.5°	6338.5	3986.6	2347.4	2080.9	2006.0	2001.5	1944.7	1780.0	1670.7	1627.3	1621.3
45°	6534.6	3979.1	2214.1	1992.6	1947.6	1923.7	1863.8	1694.6	1627.3	1588.4	1580.9
47.5°	6679.8	3940.2	2064.4	1899.7	1881.8	1848.8	1720.1	1640.8	1577.9	1539.0	1531.5
50°	6654.3	3778.5	1913.2	1809.9	1802.4	1774.0	1615.3	1573.4	1518.0	1476.1	1470.1
52.5°	6522.6	3471.6	1759.0	1711.1	1726.1	1670.7	1540.5	1492.5	1444.6	1396.7	1386.3
55°	6555.5	3250.1	1642.2	1615.3	1642.2	1516.5	1456.6	1405.7	1360.8	1314.4	1305.4
57.5°	6699.2	3031.5	1518.0	1512.0	1540.5	1398.2	1348.8	1284.5	1220.1	1182.7	1182.7
60°	5625.9	2209.6	1299.4	1314.4	1378.8	1302.4	1259.0	1193.1	1122.8	1089.8	1089.8
62.5°	3326.4	1386.3	1077.9	1061.4	1101.8	1149.7	1173.7	1119.8	1035.9	992.5	994.0
65°	1465.6	1009.0	950.6	937.1	925.2	958.1	1024.0	1028.5	940.1	889.2	890.7
67.5°	902.7	913.2	889.2	878.8	868.3	862.3	856.3	859.3	835.3	788.9	787.4
70°	814.4	842.8	826.4	817.4	803.9	793.4	757.5	699.1	658.7	646.7	660.2
72.5°	700.6	739.5	730.6	726.1	709.6	684.1	636.2	579.4	531.4	501.5	507.5
75°	528.5	559.9	564.4	565.9	547.9	524.0	474.6	426.7	384.7	353.3	360.8
77.5°	303.9	321.9	326.4	330.8	317.4	308.4	275.5	241.0	218.6	185.6	194.6
80°	169.2	176.7	176.7	178.1	170.7	160.2	137.7	118.3	107.8	92.8	94.3
82.5°	101.8	104.8	106.3	107.8	103.3	92.8	76.3	62.9	56.9	49.4	47.9
85°	49.4	52.4	52.4	53.9	46.4	40.4	31.4	24.0	21.0	15.0	16.5
87.5°	12.0	13.5	13.5	12.0	10.5	7.5	4.5	1.5	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)