

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: P642650

Luminaire Tested: GWS-SA6D-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-735-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

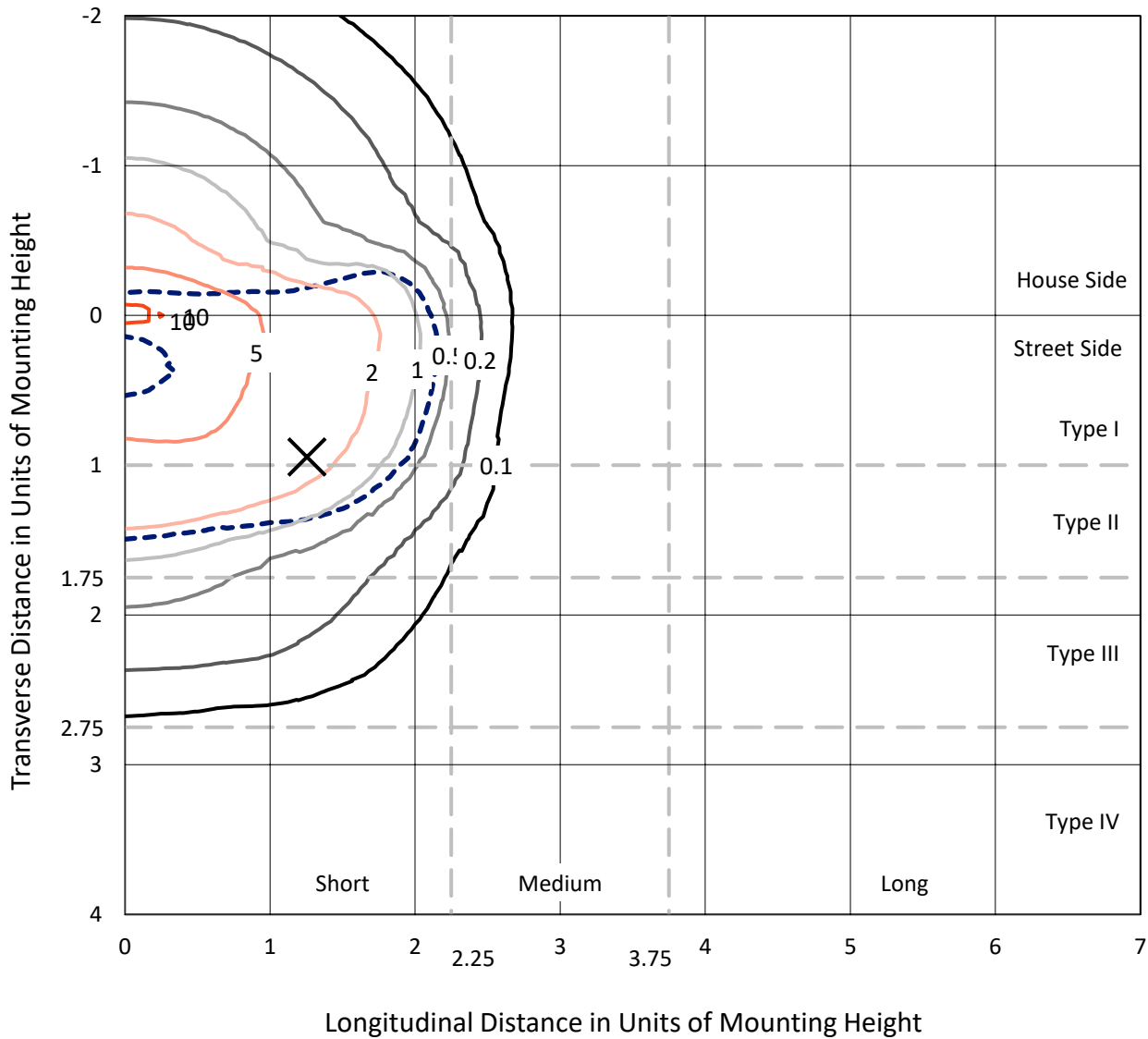
Lumens per Lamp: N/A  
Luminaire Lumens: 30091.7 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

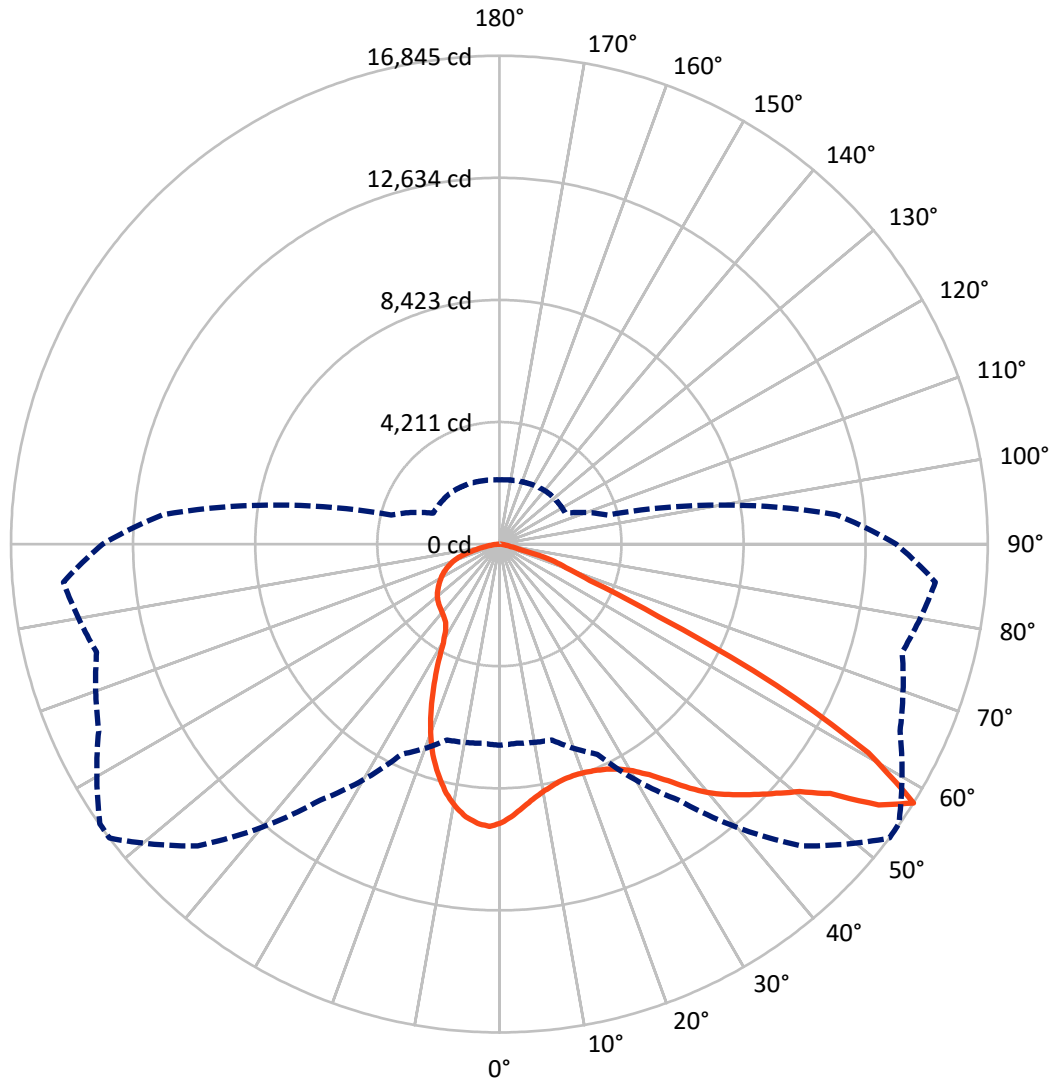
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9408.6	0.0	9408.6
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	20683.1	0.0	20683.1
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	30091.7	0.0	30091.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	869.0	2.9
10°-20°	2279.7	7.6
20°-30°	3358.8	11.2
30°-40°	4701.5	15.6
40°-50°	6180.5	20.5
50°-60°	7246.6	24.1
60°-70°	4269.0	14.2
70°-80°	1062.0	3.5
80°-90°	124.6	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°	30091.7	100.0
0°-180°	30091.7	100.0

**Coefficient of Utilization**



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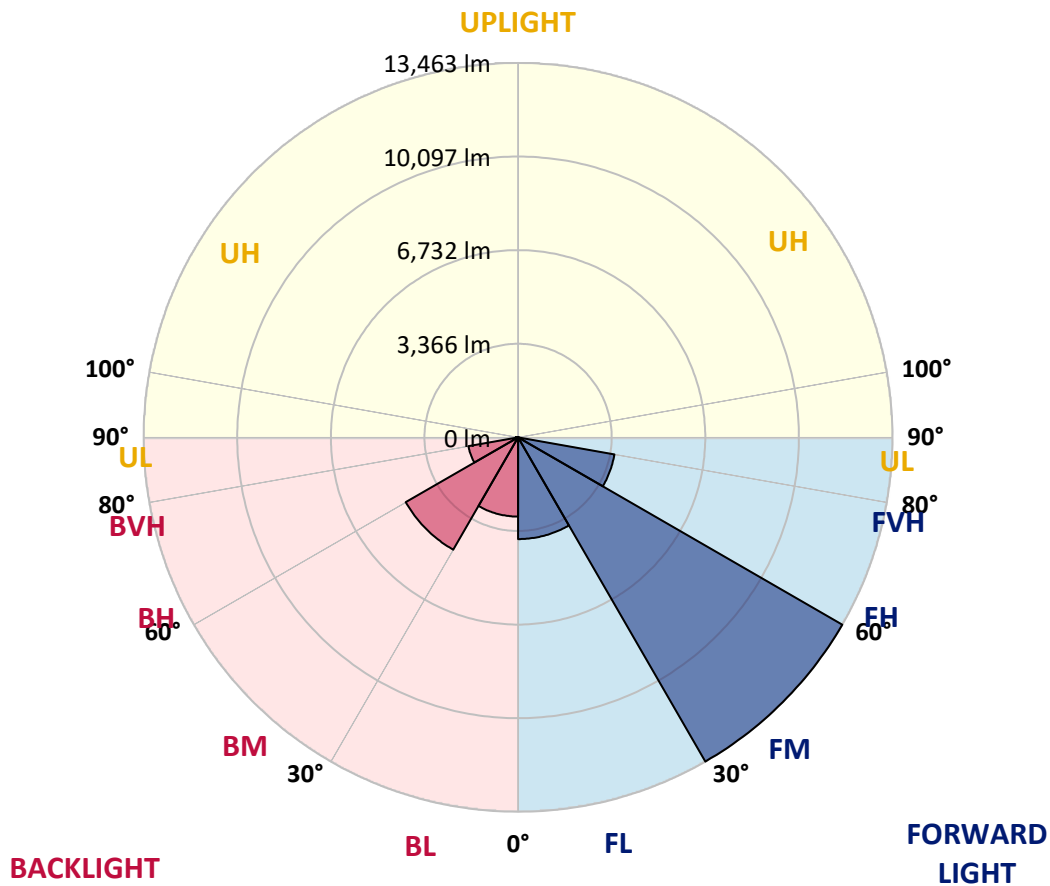
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3658.6	12.2			
FM (30°-60°)	13463.3	44.7			
FH (60°-80°)	3519.6	11.7			G2/5000
FVH (80°-90°)	41.7	0.1			G1/100
BL (0°-30°)	2849.0	9.5	B4/5000		
BM (30°-60°)	4665.3	15.5	B3/5000		
BH (60°-80°)	1811.5	6.0	B3/2500		G3/2500
BVH (80°-90°)	82.9	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°	53°	55°	65°	75°	85°
0°	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1
2.5°	9057.0	9082.3	9087.4	9165.9	9170.9	9284.9	9360.9	9345.7	9424.2	9520.4	9596.4
5°	8623.9	8626.4	8651.7	8745.4	8796.1	8945.5	9072.2	9072.2	9224.1	9421.7	9591.4
7.5°	8266.8	8264.2	8287.0	8390.9	8474.4	8654.3	8826.5	8846.7	9059.5	9348.2	9624.3
10°	7935.0	7952.7	7978.0	8104.7	8211.0	8433.9	8639.1	8672.0	8940.5	9297.6	9669.9
12.5°	7722.2	7724.8	7762.7	7904.6	8041.3	8279.4	8494.7	8535.2	8844.2	9249.4	9702.8
15°	7585.5	7588.0	7628.5	7785.5	7945.1	8185.7	8406.1	8451.6	8788.5	9241.9	9766.1
17.5°	7524.7	7522.1	7560.1	7717.2	7891.9	8142.7	8378.2	8433.9	8813.8	9300.1	9877.6
20°	7524.7	7527.2	7547.5	7689.3	7866.6	8132.5	8406.1	8474.4	8912.6	9431.8	10049.8
22.5°	7631.0	7641.2	7651.3	7747.6	7886.9	8147.7	8479.5	8570.7	9125.3	9652.1	10275.2
25°	7838.7	7841.3	7851.4	7929.9	7993.2	8190.8	8601.1	8737.8	9457.1	9973.8	10558.9
27.5°	8117.3	8152.8	8162.9	8213.6	8213.6	8297.2	8791.0	8988.6	9905.4	10437.3	10921.0
30°	8507.4	8520.0	8537.8	8593.5	8532.7	8497.2	9069.6	9322.9	10424.6	10997.0	11356.7
32.5°	8849.3	8877.1	8973.4	9064.6	8955.7	8844.2	9479.9	9778.8	10923.6	11579.5	11820.1
35°	9140.5	9208.9	9393.8	9596.4	9520.4	9409.0	10024.5	10336.0	11333.9	11997.4	12230.4
37.5°	9492.6	9545.8	9799.0	10128.3	10196.7	10143.5	10688.0	10910.9	11607.4	12103.8	12453.3
40°	9849.7	9930.7	10257.5	10713.4	10974.2	11012.2	11300.9	11450.4	11701.1	11896.1	12410.3
42.5°	10214.4	10353.7	10802.0	11333.9	11797.4	11883.5	11817.6	11880.9	11670.7	11609.9	12210.2
45°	10660.2	10824.8	11331.3	12010.1	12620.5	12754.7	12324.2	12265.9	11665.7	11501.0	12086.1
47.5°	11187.0	11351.6	11835.3	12625.5	13405.6	13504.4	12843.4	12737.0	11842.9	11668.2	12253.2
50°	11653.0	11767.0	12200.1	13084.0	14137.6	14195.8	13415.8	13286.6	12283.6	12131.7	12775.0
52.5°	11179.4	11166.7	11622.6	12711.7	14517.5	15219.0	14297.1	14173.0	13134.6	12901.6	13582.9
55°	9485.0	9340.6	9748.4	10819.7	13456.3	16128.3	15877.5	15629.3	14269.3	13676.6	14340.2
57.5°	6934.6	6894.0	6992.8	7998.3	10779.2	14720.1	16845.0	16822.2	15249.4	14385.8	15094.9
60°	5422.5	5361.7	5098.3	5126.2	7347.4	11498.5	14618.8	15290.0	15857.3	14811.3	15621.7
62.5°	4814.7	4769.1	4632.3	4254.9	4376.5	7709.6	10715.9	11331.3	13856.4	13081.4	13418.3
65°	3986.5	3973.8	4087.8	4072.6	3667.4	4257.5	6048.1	6668.6	8712.5	8821.4	8712.5
67.5°	2897.4	2874.6	3163.4	3733.2	3530.6	3214.0	3371.0	3586.3	4467.7	4011.8	3611.6
70°	1884.3	1851.4	2018.6	2697.3	3160.8	2801.2	2428.9	2393.4	2456.7	1527.2	1651.3
72.5°	1263.8	1225.8	1223.3	1484.2	1909.7	1886.9	1881.8	1864.1	1664.0	1205.6	1337.3
75°	704.1	673.7	666.1	640.8	683.8	696.5	742.1	767.4	830.7	914.3	1013.1
77.5°	119.0	116.5	146.9	187.4	258.3	331.8	410.3	433.1	534.4	633.2	696.5
80°	65.9	68.4	88.6	108.9	144.4	197.6	253.3	268.5	329.3	382.4	433.1
82.5°	35.5	35.5	45.6	58.3	78.5	103.8	136.8	149.4	190.0	222.9	258.3
85°	12.7	12.7	17.7	22.8	32.9	43.1	53.2	60.8	83.6	114.0	129.2
87.5°	0.0	0.0	0.0	0.0	2.5	5.1	10.1	10.1	12.7	22.8	32.9
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°	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1	9609.1
2.5°	9659.7	9591.4	9685.1	9728.1	9743.3	9753.5	9687.6	9642.0	9626.8	9578.7	9550.8
5°	9695.2	9649.6	9738.3	9738.3	9674.9	9609.1	9474.9	9381.1	9315.3	9236.8	9224.1
7.5°	9756.0	9723.1	9771.2	9672.4	9512.8	9335.6	9102.6	8920.2	8773.3	8677.1	8679.6
10°	9837.0	9796.5	9758.5	9538.2	9246.9	8920.2	8563.1	8297.2	8054.0	7942.6	7881.8
12.5°	9890.2	9832.0	9672.4	9307.7	8879.7	8441.5	7937.5	7542.4	7190.4	7030.8	7018.1
15°	9956.1	9849.7	9530.6	9008.8	8413.7	7815.9	7167.6	6618.0	6141.8	5893.6	5880.9
17.5°	10042.2	9867.4	9360.9	8666.9	7922.3	7040.9	6225.4	5534.0	5027.4	4834.9	4867.9
20°	10163.8	9887.7	9168.4	8287.0	7311.9	6159.5	5143.9	4508.2	4313.2	4300.5	4275.2
22.5°	10300.5	9900.4	8955.7	7861.5	6572.4	5219.9	4249.9	3978.9	3976.4	4039.7	4054.9
25°	10455.0	9910.5	8715.0	7365.1	5772.0	4282.8	3758.5	3677.5	3740.8	3859.8	3875.0
27.5°	10652.6	9930.7	8423.8	6820.6	4921.1	3700.3	3487.5	3467.3	3543.3	3654.7	3649.6
30°	10943.8	10004.2	8114.8	6195.0	4047.3	3424.2	3322.9	3325.4	3355.8	3409.0	3416.6
32.5°	11240.2	10118.2	7813.4	5490.9	3545.8	3267.2	3221.6	3216.5	3216.5	3239.3	3244.4
35°	11521.3	10247.3	7486.7	4756.4	3302.7	3176.0	3145.6	3130.4	3122.8	3117.8	3110.2
37.5°	11678.3	10310.7	7167.6	4032.1	3173.5	3115.2	3084.8	3064.6	3036.7	3016.5	3011.4
40°	11609.9	10237.2	6797.8	3490.1	3095.0	3057.0	3021.5	2993.7	2955.7	2937.9	2927.8
42.5°	11382.0	10009.3	6395.1	3234.3	3031.7	2993.7	2950.6	2905.0	2879.7	2864.5	2862.0
45°	11141.4	9733.2	5908.8	3084.8	2970.9	2925.3	2874.6	2824.0	2796.1	2788.5	2786.0
47.5°	11133.8	9596.4	5392.1	2965.8	2897.4	2851.8	2788.5	2737.9	2707.5	2697.3	2687.2
50°	11468.1	9735.7	4809.6	2862.0	2821.4	2773.3	2702.4	2646.7	2608.7	2596.0	2593.5
52.5°	12162.1	10260.0	4287.9	2758.1	2720.1	2664.4	2606.2	2550.4	2504.8	2482.1	2479.5
55°	12911.7	10926.1	3963.7	2651.7	2601.1	2553.0	2499.8	2439.0	2388.3	2352.9	2347.8
57.5°	13686.8	11653.0	3864.9	2517.5	2479.5	2446.6	2383.3	2317.4	2259.2	2226.3	2218.7
60°	14325.0	12278.6	4049.8	2375.7	2355.4	2312.4	2254.1	2190.8	2150.3	2124.9	2119.9
62.5°	11992.4	9996.6	3269.7	2221.2	2221.2	2175.6	2109.7	2064.2	2036.3	2018.6	2013.5
65°	7610.8	6189.9	2231.3	2066.7	2064.2	2003.4	1947.7	1917.3	1904.6	1876.7	1871.7
67.5°	3315.3	2829.0	1907.1	1909.7	1899.5	1833.7	1778.0	1755.2	1729.8	1699.4	1696.9
70°	1719.7	1752.6	1707.0	1734.9	1717.2	1638.7	1585.5	1550.0	1496.8	1466.4	1469.0
72.5°	1387.9	1423.4	1474.0	1517.1	1479.1	1415.8	1332.2	1289.1	1220.8	1187.8	1190.4
75°	1058.7	1096.7	1144.8	1190.4	1160.0	1081.5	1028.3	985.2	906.7	868.7	876.3
77.5°	729.4	749.7	807.9	805.4	795.3	772.5	694.0	643.3	562.3	516.7	521.7
80°	453.4	466.0	493.9	506.5	501.5	471.1	407.8	369.8	321.7	293.8	296.3
82.5°	273.5	281.1	306.5	309.0	306.5	283.7	235.5	207.7	177.3	162.1	162.1
85°	139.3	144.4	159.6	159.6	144.4	121.6	108.9	96.2	78.5	70.9	70.9
87.5°	38.0	38.0	48.1	40.5	32.9	30.4	15.2	12.7	5.1	2.5	2.5
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)