

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: P640697

Luminaire Tested: GWS-SA5E-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-735-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

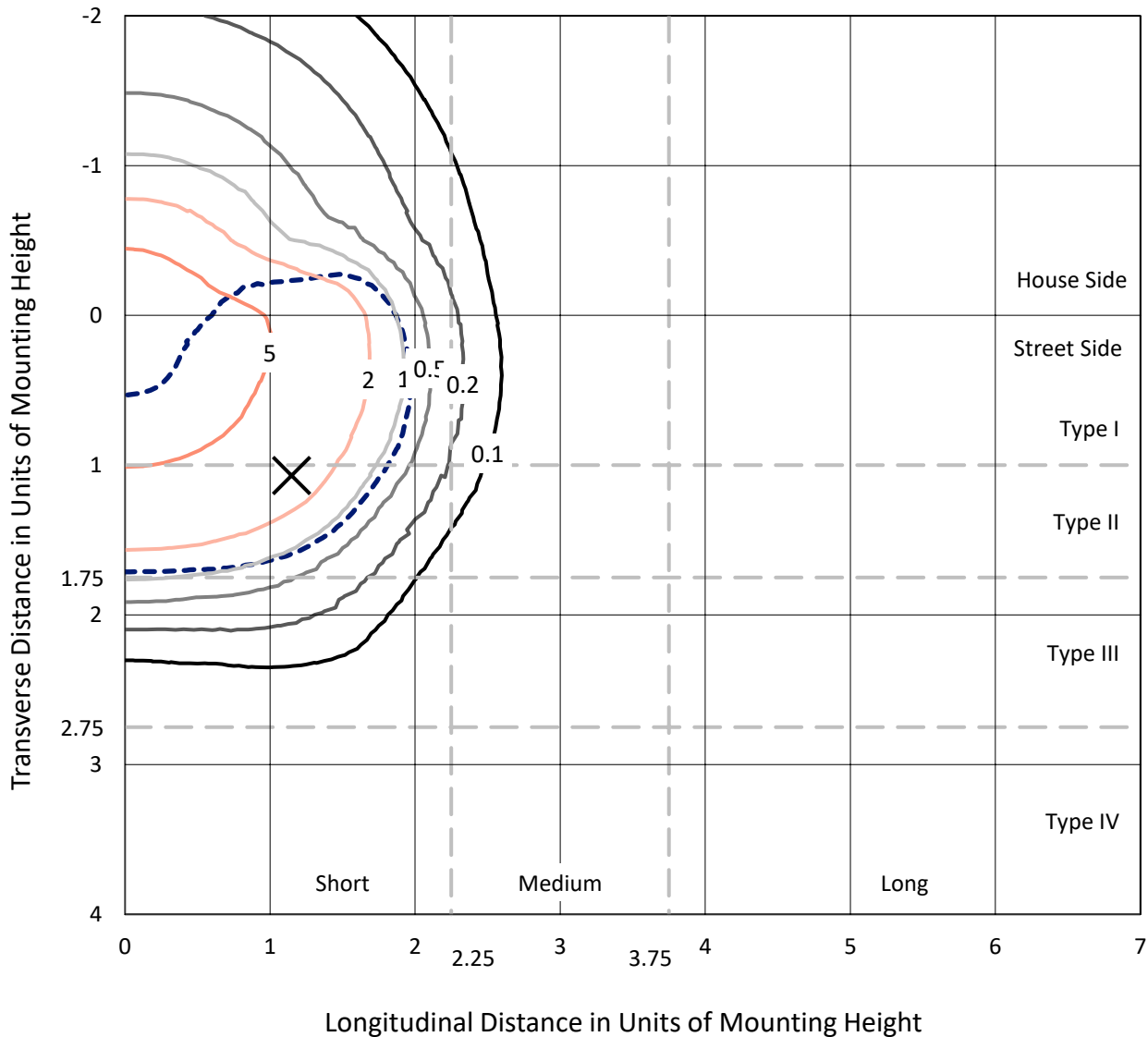
Lumens per Lamp: N/A  
Luminaire Lumens: 31602.1 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P640697  
 CATALOG NUMBER: GWS-SA5E-735-U-T3-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

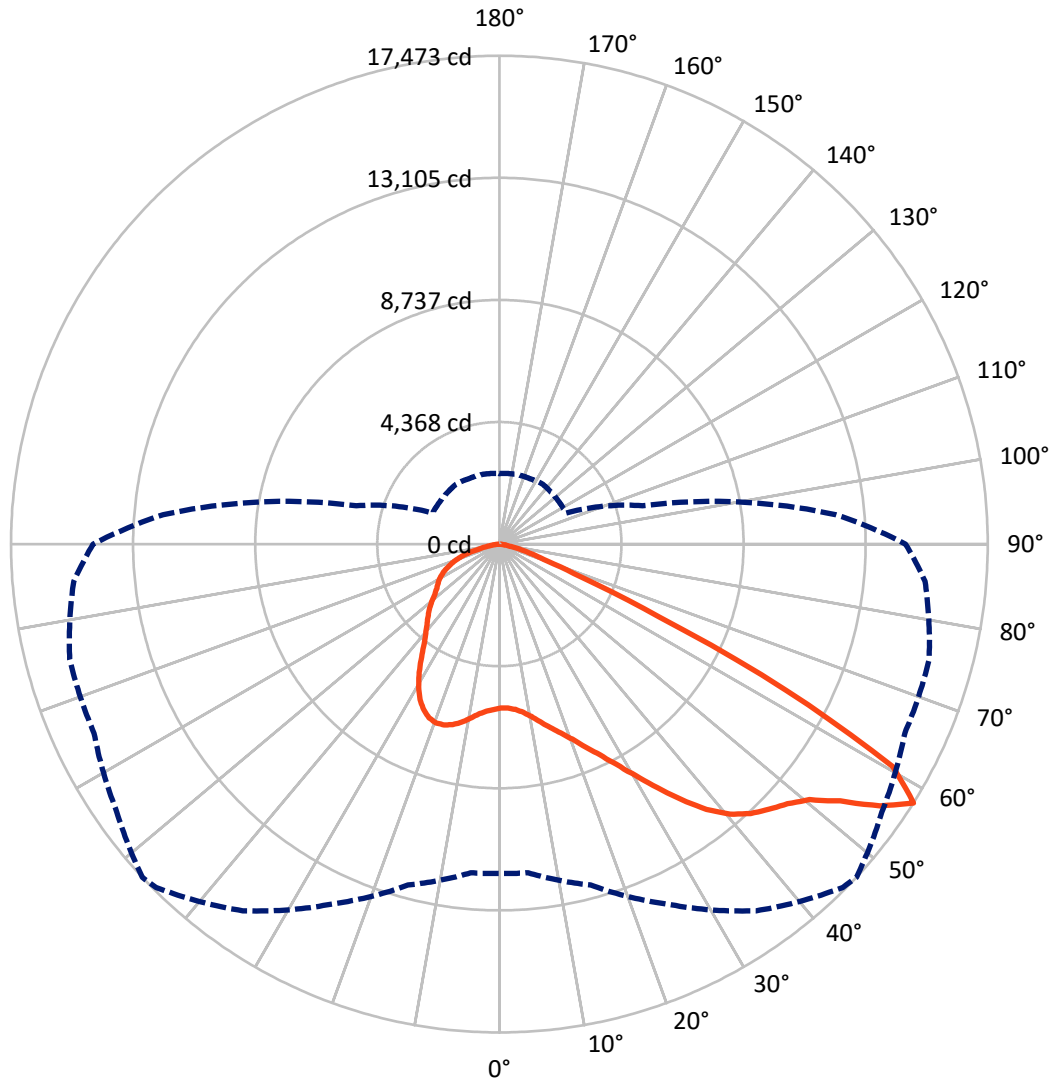
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P640697  
CATALOG NUMBER: GWS-SA5E-735-U-T3-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640697

CATALOG NUMBER: GWS-SA5E-735-U-T3-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10002.0	0.0	10002.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	21600.1	0.0	21600.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	31602.1	0.0	31602.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.0	1.8
10°-20°	1901.2	6.0
20°-30°	3423.4	10.8
30°-40°	5170.6	16.4
40°-50°	6962.8	22.0
50°-60°	8366.8	26.5
60°-70°	4074.8	12.9
70°-80°	1003.9	3.2
80°-90°	120.7	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°	31602.1	100.0
0°-180°	31602.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640697

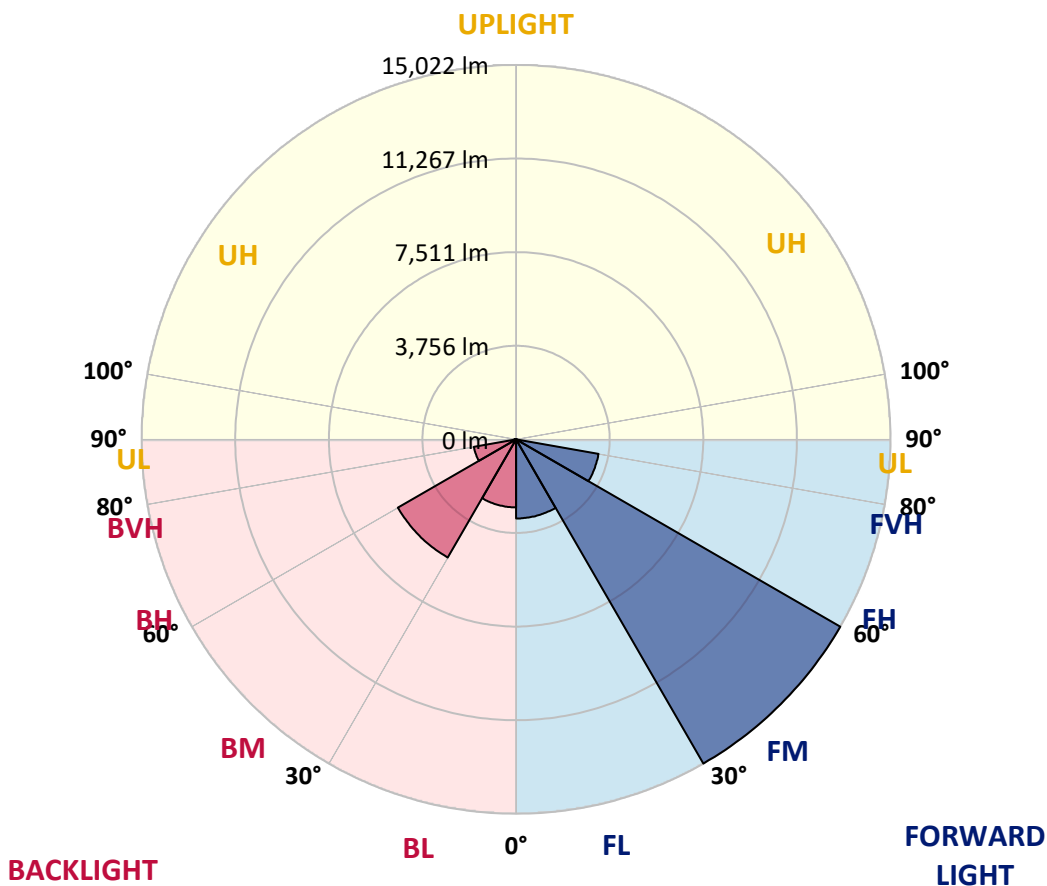
CATALOG NUMBER: GWS-SA5E-735-U-T3-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3174.3	10.0			
FM (30°-60°)	15022.2	47.5			
FH (60°-80°)	3358.4	10.6			G2/5000
FVH (80°-90°)	45.3	0.1			G1/100
BL (0°-30°)	2728.4	8.6	B4/5000		
BM (30°-60°)	5478.0	17.3	B4/8500		
BH (60°-80°)	1720.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	75.3	0.2			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





REPORT NUMBER: P640697

CATALOG NUMBER: GWS-SA5E-735-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7
2.5°	5850.0	5847.4	5847.4	5863.3	5863.3	5868.6	5876.6	5884.5	5887.2	5873.9	5844.7
5°	5913.7	5913.7	5913.7	5927.0	5927.0	5932.3	5942.9	5945.6	5942.9	5921.7	5892.5
7.5°	6014.6	6014.6	6017.3	6033.2	6046.5	6054.4	6073.0	6070.3	6062.4	6027.9	5990.7
10°	6179.2	6187.1	6195.1	6213.7	6240.2	6258.8	6272.1	6272.1	6261.5	6208.4	6160.6
12.5°	6412.7	6423.4	6431.3	6447.3	6468.5	6500.3	6529.5	6529.5	6516.3	6449.9	6378.2
15°	6686.1	6696.8	6694.1	6699.4	6739.2	6784.3	6808.2	6824.2	6829.5	6736.6	6625.1
17.5°	6999.3	7010.0	6999.3	6983.4	6988.7	7060.4	7102.9	7161.3	7195.8	7071.0	6893.2
20°	7283.4	7272.7	7272.7	7283.4	7299.3	7386.9	7450.6	7546.1	7588.6	7437.3	7161.3
22.5°	7583.3	7607.2	7596.6	7596.6	7660.3	7806.2	7883.2	8008.0	8053.1	7856.7	7485.1
25°	7970.8	7992.0	7986.7	7992.0	8066.4	8273.4	8350.4	8581.3	8626.4	8345.1	7843.4
27.5°	8395.5	8430.0	8445.9	8440.6	8560.1	8830.8	8926.4	9247.5	9329.8	8891.8	8225.6
30°	8947.6	8984.7	8998.0	8992.7	9133.4	9502.3	9611.2	9977.4	10094.2	9539.5	8711.4
32.5°	9587.3	9624.4	9664.2	9680.2	9860.7	10237.6	10394.2	10773.7	10941.0	10288.0	9298.0
35°	10221.6	10253.5	10330.5	10455.2	10702.1	11086.9	11225.0	11599.2	11761.1	11065.7	10006.6
37.5°	10922.4	10943.6	11010.0	11182.5	11538.2	11904.5	12042.5	12400.8	12419.4	11816.9	10808.2
40°	11689.5	11689.5	11676.2	11846.1	12217.7	12586.6	12706.0	12913.1	12804.3	12395.5	11588.6
42.5°	12339.8	12329.1	12339.8	12499.0	12775.1	13075.0	13178.5	13138.7	13000.7	12838.8	12294.6
45°	12926.4	12934.3	13029.9	13152.0	13295.3	13473.1	13534.2	13308.6	13183.8	13194.4	12860.0
47.5°	13324.5	13332.5	13555.4	13759.8	13847.4	13903.1	13876.6	13563.4	13499.7	13619.1	13295.3
50°	13377.6	13420.1	13804.9	14224.3	14441.9	14449.9	14375.6	13993.4	13974.8	14110.2	13528.9
52.5°	13388.2	13430.7	13911.1	14667.6	15232.9	15352.4	15267.4	14869.3	14675.5	14540.2	13815.5
55°	13348.4	13396.2	13927.0	14964.8	16047.8	16525.6	16533.5	15970.8	15352.4	15262.1	14633.1
57.5°	11785.0	11803.6	12626.4	14208.4	16015.9	17369.6	17473.1	16708.7	16002.7	15917.7	15288.7
60°	8209.7	8284.0	9178.5	11267.4	13454.6	15840.8	16175.2	15952.2	15479.8	14861.3	13117.5
62.5°	4111.5	4175.2	5072.3	7047.1	9279.4	11163.9	11522.2	11758.5	11869.9	11206.4	8931.7
65°	1770.4	1818.2	2375.6	3681.5	5252.8	6163.2	6288.0	6572.0	7267.4	6484.4	4812.2
67.5°	1183.8	1215.7	1499.7	2245.5	3094.9	3153.3	3134.7	3195.8	3347.0	2763.1	2173.9
70°	907.8	934.3	1125.4	1645.7	2224.3	1903.1	1802.3	1635.0	1775.7	1810.2	1762.4
72.5°	658.3	679.5	822.8	1122.8	1393.5	1215.7	1199.7	1284.7	1475.8	1528.9	1499.7
75°	424.7	435.3	522.9	615.8	719.3	780.4	812.2	966.2	1159.9	1199.7	1165.2
77.5°	284.0	292.0	342.4	395.5	408.8	411.4	422.0	491.0	623.8	698.1	690.1
80°	148.6	148.6	167.2	167.2	191.1	228.3	238.9	284.0	345.1	382.2	384.9
82.5°	58.4	61.0	71.7	79.6	95.6	116.8	124.8	148.6	180.5	207.0	230.9
85°	23.9	26.5	29.2	34.5	42.5	53.1	55.7	63.7	84.9	106.2	119.4
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	8.0	10.6	13.3	23.9	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640697

CATALOG NUMBER: GWS-SA5E-735-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7	5860.7
2.5°	5879.2	5844.7	5879.2	5889.9	5919.0	5929.7	5911.1	5908.4	5908.4	5881.9	5873.9
5°	5919.0	5887.2	5921.7	5937.6	5980.1	6006.6	6011.9	6033.2	6046.5	6035.8	6033.2
7.5°	6017.3	5977.4	6014.6	6038.5	6094.2	6136.7	6155.3	6203.1	6237.6	6232.3	6229.6
10°	6189.8	6136.7	6179.2	6219.0	6280.0	6330.5	6333.1	6359.7	6394.2	6383.5	6378.2
12.5°	6388.9	6338.4	6386.2	6426.0	6497.7	6518.9	6484.4	6473.8	6479.1	6465.8	6455.2
15°	6633.1	6561.4	6603.9	6649.0	6688.8	6664.9	6590.6	6561.4	6558.7	6540.2	6529.5
17.5°	6877.2	6787.0	6818.9	6842.7	6824.2	6749.8	6656.9	6606.5	6582.6	6545.5	6534.8
20°	7118.8	7004.7	6999.3	6980.8	6895.8	6760.5	6635.7	6534.8	6473.8	6423.4	6404.8
22.5°	7394.8	7235.6	7155.9	7071.0	6885.2	6664.9	6476.4	6333.1	6234.9	6171.2	6150.0
25°	7692.1	7466.5	7301.9	7132.1	6779.0	6460.5	6197.7	6001.3	5884.5	5815.5	5791.6
27.5°	7986.7	7676.2	7429.3	7140.0	6566.7	6165.9	5812.9	5547.4	5430.7	5374.9	5356.3
30°	8384.9	7954.9	7580.6	7036.5	6288.0	5757.1	5316.5	5048.4	4971.5	4931.7	4915.7
32.5°	8844.1	8307.9	7782.4	6818.9	5932.3	5279.4	4814.9	4629.1	4576.0	4499.0	4496.4
35°	9449.2	8812.2	7973.5	6497.7	5483.7	4767.1	4430.0	4297.3	4201.7	4079.6	4069.0
37.5°	10155.3	9441.3	8077.0	6088.9	4960.9	4345.1	4143.3	3994.7	3840.7	3678.8	3657.6
40°	10885.2	10176.5	8084.9	5605.8	4448.6	4066.4	3896.5	3702.7	3511.6	3331.1	3307.2
42.5°	11652.3	10861.3	7944.3	5048.4	4029.2	3824.8	3652.3	3408.1	3193.1	3071.0	3057.7
45°	12337.1	11413.4	7625.8	4461.8	3718.6	3623.1	3402.8	3140.0	3025.9	2938.3	2919.7
47.5°	12875.9	11779.7	7195.8	3936.3	3466.5	3416.1	3129.4	2994.0	2906.4	2826.8	2808.2
50°	13141.4	11862.0	6635.7	3509.0	3232.9	3171.9	2975.5	2871.9	2813.5	2749.8	2733.9
52.5°	13470.5	11954.9	6152.6	3150.6	3004.6	2922.4	2848.0	2765.8	2723.3	2683.5	2670.2
55°	14227.0	12305.3	5897.8	2864.0	2787.0	2749.8	2739.2	2670.2	2656.9	2630.4	2606.5
57.5°	14534.8	12079.6	5295.3	2630.4	2614.5	2619.8	2646.3	2582.6	2569.3	2537.5	2521.6
60°	11689.5	9130.7	3585.9	2428.7	2471.1	2505.6	2532.2	2468.5	2449.9	2444.6	2423.4
62.5°	7490.4	5616.5	2503.0	2240.2	2303.9	2346.4	2362.3	2301.3	2288.0	2330.5	2333.1
65°	3899.1	3060.4	2030.5	2038.5	2091.6	2155.3	2187.1	2165.9	2160.6	2205.7	2208.4
67.5°	1990.7	1871.3	1770.4	1799.6	1842.1	1924.4	1998.7	2091.6	2123.4	2128.7	2131.4
70°	1696.1	1643.0	1592.6	1611.1	1656.3	1701.4	1773.1	1818.2	1765.1	1751.8	1746.5
72.5°	1443.9	1404.1	1380.2	1401.5	1425.3	1417.4	1396.2	1417.4	1425.3	1428.0	1430.7
75°	1122.8	1093.6	1075.0	1077.6	1077.6	1048.4	1008.6	984.7	958.2	937.0	937.0
77.5°	687.5	692.8	711.3	708.7	706.0	695.4	655.6	634.4	570.7	552.1	552.1
80°	392.8	400.8	419.4	424.7	424.7	411.4	371.6	347.7	318.5	305.2	302.6
82.5°	238.9	249.5	260.1	265.4	268.1	252.2	217.7	199.1	183.1	169.9	169.9
85°	124.8	130.1	140.7	143.3	135.4	119.4	100.9	92.9	77.0	74.3	74.3
87.5°	34.5	37.2	42.5	34.5	31.9	23.9	13.3	10.6	5.3	2.7	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)