

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: P643200

Luminaire Tested: GWS-SA6E-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643200  
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-SAGE-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

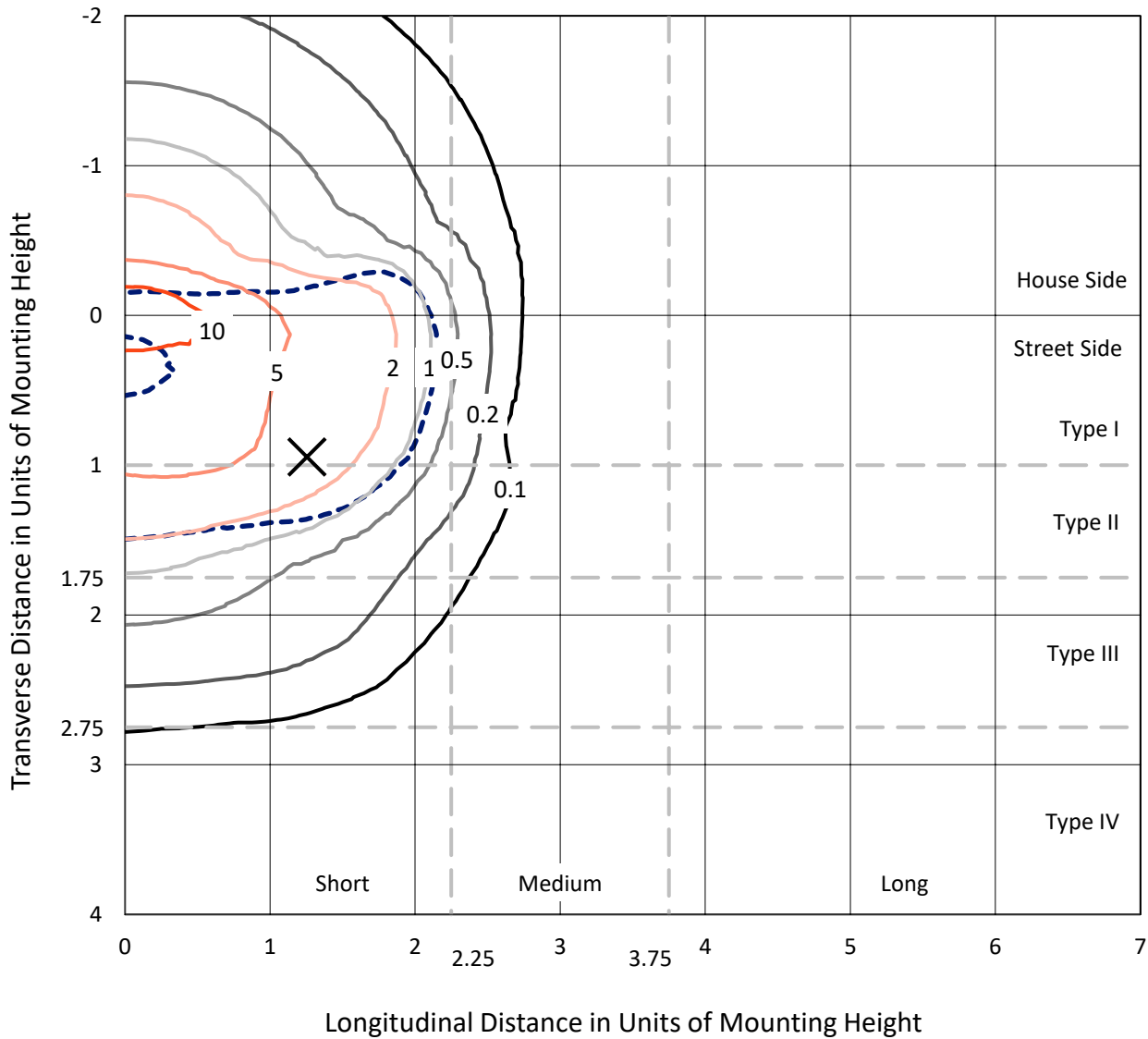
Lumens per Lamp: N/A  
Luminaire Lumens: 38126.6 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

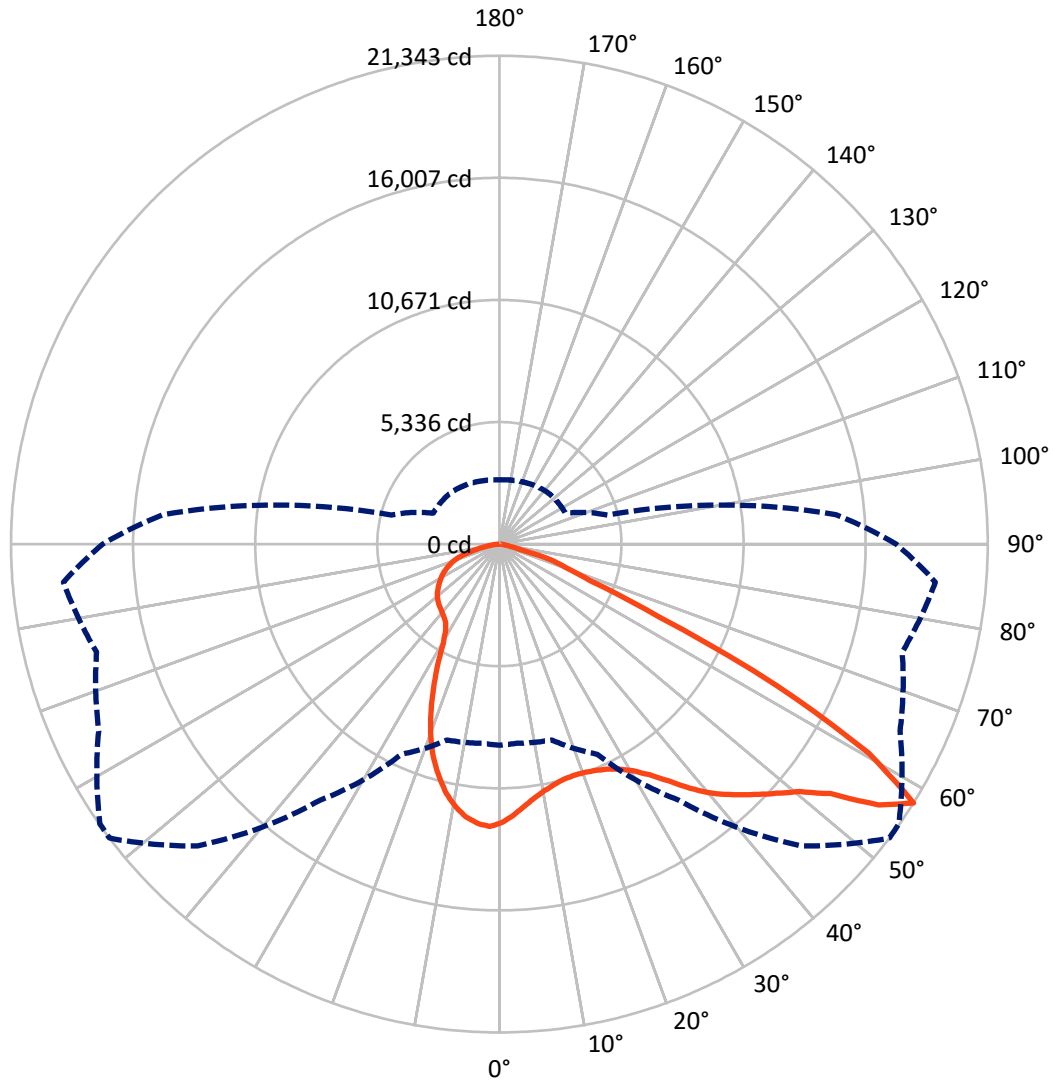
✕ Max cd  
 - - - 1/2 Max cd



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11920.8	0.0	11920.8
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	26205.8	0.0	26205.8
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	38126.6	0.0	38126.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1101.0	2.9
10°-20°	2888.4	7.6
20°-30°	4255.7	11.2
30°-40°	5956.8	15.6
40°-50°	7830.7	20.5
50°-60°	9181.5	24.1
60°-70°	5408.9	14.2
70°-80°	1345.6	3.5
80°-90°	157.9	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°	38126.6	100.0
0°-180°	38126.6	100.0

**Coefficient of Utilization**



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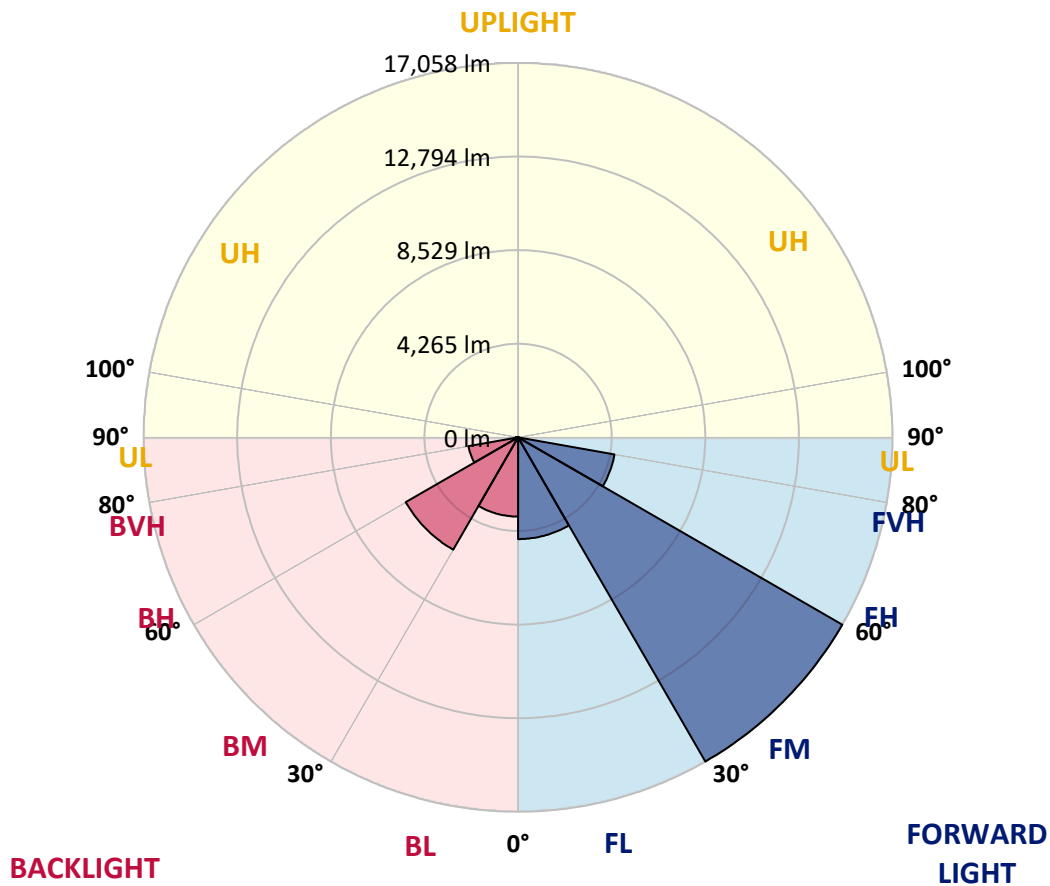
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4635.4	12.2			
FM (30°-60°)	17058.2	44.7			
FH (60°-80°)	4459.4	11.7			G2/5000
FVH (80°-90°)	52.8	0.1			G1/100
BL (0°-30°)	3609.7	9.5	B4/5000		
BM (30°-60°)	5910.9	15.5	B4/8500		
BH (60°-80°)	2295.1	6.0	B3/2500		G3/2500
BVH (80°-90°)	105.0	0.3			G2/225
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°	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9
2.5°	11475.3	11507.4	11513.8	11613.3	11619.7	11764.1	11860.4	11841.1	11940.6	12062.5	12158.8
5°	10926.6	10929.8	10961.9	11080.6	11144.8	11334.1	11494.6	11494.6	11687.1	11937.4	12152.4
7.5°	10474.1	10470.9	10499.8	10631.3	10737.2	10965.1	11183.3	11209.0	11478.5	11844.3	12194.1
10°	10053.7	10076.2	10108.3	10268.7	10403.5	10685.9	10945.8	10987.5	11327.7	11780.1	12251.9
12.5°	9784.2	9787.4	9835.5	10015.2	10188.5	10490.1	10762.9	10814.2	11205.7	11719.2	12293.6
15°	9610.9	9614.1	9665.4	9864.4	10066.6	10371.4	10650.6	10708.4	11135.1	11709.6	12373.8
17.5°	9533.9	9530.7	9578.8	9777.7	9999.2	10316.9	10615.3	10685.9	11167.2	11783.4	12515.0
20°	9533.9	9537.1	9562.7	9742.4	9967.1	10304.0	10650.6	10737.2	11292.4	11950.2	12733.2
22.5°	9668.6	9681.5	9694.3	9816.3	9992.8	10323.3	10743.7	10859.2	11561.9	12229.4	13018.8
25°	9931.8	9935.0	9947.8	10047.3	10127.5	10377.8	10897.7	11071.0	11982.3	12636.9	13378.2
27.5°	10284.8	10329.7	10342.5	10406.7	10406.7	10512.6	11138.4	11388.7	12550.3	13224.2	13837.1
30°	10778.9	10795.0	10817.5	10888.1	10811.0	10766.1	11491.3	11812.2	13208.1	13933.4	14389.0
32.5°	11212.2	11247.5	11369.4	11484.9	11346.9	11205.7	12011.2	12389.9	13840.3	14671.4	14976.3
35°	11581.2	11667.8	11902.1	12158.8	12062.5	11921.3	12701.1	13095.8	14360.2	15200.9	15496.1
37.5°	12027.2	12094.6	12415.5	12832.7	12919.3	12851.9	13541.9	13824.3	14706.7	15335.7	15778.5
40°	12479.7	12582.4	12996.4	13574.0	13904.5	13952.6	14318.4	14507.8	14825.5	15072.6	15724.0
42.5°	12941.8	13118.3	13686.3	14360.2	14947.4	15056.5	14973.1	15053.3	14787.0	14709.9	15470.5
45°	13506.6	13715.2	14357.0	15217.0	15990.3	16160.4	15614.9	15541.1	14780.5	14572.0	15313.2
47.5°	14174.0	14382.6	14995.5	15996.7	16985.1	17110.3	16272.7	16137.9	15005.2	14783.8	15525.0
50°	14764.5	14908.9	15457.6	16577.6	17912.5	17986.3	16997.9	16834.3	15563.5	15371.0	16186.1
52.5°	14164.4	14148.4	14726.0	16105.8	18393.8	19282.7	18114.7	17957.4	16641.7	16346.5	17209.7
55°	12017.6	11834.7	12351.3	13708.7	17049.3	20434.8	20117.1	19802.6	18079.4	17328.5	18169.2
57.5°	8786.2	8734.8	8860.0	10133.9	13657.4	18650.6	21342.9	21314.0	19321.2	18227.0	19125.5
60°	6870.4	6793.4	6459.7	6495.0	9309.2	14568.7	18522.2	19372.6	20091.4	18766.1	19793.0
62.5°	6100.3	6042.5	5869.2	5391.1	5545.1	9768.1	13577.2	14357.0	17556.3	16574.4	17001.2
65°	5050.9	5034.9	5179.3	5160.0	4646.6	5394.3	7663.0	8449.2	11038.9	11176.9	11038.9
67.5°	3671.1	3642.2	4008.0	4730.0	4473.3	4072.2	4271.1	4543.9	5660.6	5083.0	4576.0
70°	2387.5	2345.8	2557.6	3417.6	4004.8	3549.1	3077.4	3032.5	3112.7	1935.0	2092.3
72.5°	1601.3	1553.1	1549.9	1880.5	2419.6	2390.7	2384.3	2361.8	2108.3	1527.5	1694.3
75°	892.1	853.6	844.0	811.9	866.4	882.5	940.2	972.3	1052.5	1158.4	1283.6
77.5°	150.8	147.6	186.1	237.5	327.3	420.4	519.9	548.7	677.1	802.2	882.5
80°	83.4	86.6	112.3	138.0	182.9	250.3	320.9	340.2	417.2	484.6	548.7
82.5°	44.9	44.9	57.8	73.8	99.5	131.6	173.3	189.3	240.7	282.4	327.3
85°	16.0	16.0	22.5	28.9	41.7	54.6	67.4	77.0	105.9	144.4	163.7
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	12.8	12.8	16.0	28.9	41.7
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°	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9	12174.9
2.5°	12239.0	12152.4	12271.1	12325.7	12344.9	12357.8	12274.3	12216.6	12197.3	12136.3	12101.0
5°	12284.0	12226.2	12338.5	12338.5	12258.3	12174.9	12004.8	11886.0	11802.6	11703.1	11687.1
7.5°	12361.0	12319.3	12380.2	12255.1	12052.9	11828.3	11533.1	11302.0	11115.9	10994.0	10997.2
10°	12463.7	12412.3	12364.2	12085.0	11716.0	11302.0	10849.5	10512.6	10204.5	10063.3	9986.3
12.5°	12531.0	12457.2	12255.1	11793.0	11250.7	10695.5	10056.9	9556.3	9110.3	8908.1	8892.1
15°	12614.5	12479.7	12075.4	11414.3	10660.2	9902.9	9081.4	8385.1	7781.8	7467.3	7451.2
17.5°	12723.6	12502.2	11860.4	10981.1	10037.7	8921.0	7887.7	7011.6	6369.8	6125.9	6167.7
20°	12877.6	12527.8	11616.5	10499.8	9264.3	7804.2	6517.4	5712.0	5464.9	5448.8	5416.8
22.5°	13050.9	12543.9	11346.9	9960.7	8327.3	6613.7	5384.7	5041.3	5038.1	5118.3	5137.6
25°	13246.7	12556.7	11042.1	9331.7	7313.3	5426.4	4762.1	4659.4	4739.7	4890.5	4909.7
27.5°	13497.0	12582.4	10673.1	8641.8	6235.0	4688.3	4418.8	4393.1	4489.4	4630.6	4624.1
30°	13866.0	12675.5	10281.6	7849.2	5127.9	4338.5	4210.2	4213.4	4251.9	4319.3	4328.9
32.5°	14241.4	12819.9	9899.7	6957.1	4492.6	4139.6	4081.8	4075.4	4075.4	4104.3	4110.7
35°	14597.6	12983.5	9485.7	6026.5	4184.5	4024.1	3985.5	3966.3	3956.7	3950.2	3940.6
37.5°	14796.6	13063.7	9081.4	5108.7	4020.8	3947.0	3908.5	3882.9	3847.6	3821.9	3815.5
40°	14709.9	12970.7	8612.9	4422.0	3921.4	3873.2	3828.3	3793.0	3744.9	3722.4	3709.6
42.5°	14421.1	12681.9	8102.7	4097.9	3841.1	3793.0	3738.5	3680.7	3648.6	3629.4	3626.1
45°	14116.3	12332.1	7486.5	3908.5	3764.1	3706.4	3642.2	3578.0	3542.7	3533.1	3529.9
47.5°	14106.7	12158.8	6831.9	3757.7	3671.1	3613.3	3533.1	3468.9	3430.4	3417.6	3404.7
50°	14530.2	12335.3	6093.8	3626.1	3574.8	3513.8	3424.0	3353.4	3305.2	3289.2	3286.0
52.5°	15409.5	12999.6	5432.8	3494.6	3446.4	3375.8	3302.0	3231.4	3173.7	3144.8	3141.6
55°	16359.4	13843.5	5022.0	3359.8	3295.6	3234.6	3167.3	3090.2	3026.1	2981.1	2974.7
57.5°	17341.3	14764.5	4896.9	3189.7	3141.6	3099.9	3019.6	2936.2	2862.4	2820.7	2811.1
60°	18150.0	15557.1	5131.2	3010.0	2984.3	2929.8	2856.0	2775.8	2724.4	2692.3	2685.9
62.5°	15194.5	12665.8	4142.8	2814.3	2814.3	2756.5	2673.1	2615.3	2580.0	2557.6	2551.1
65°	9643.0	7842.7	2827.1	2618.5	2615.3	2538.3	2467.7	2429.2	2413.1	2377.9	2371.4
67.5°	4200.5	3584.4	2416.4	2419.6	2406.7	2323.3	2252.7	2223.8	2191.7	2153.2	2150.0
70°	2178.9	2220.6	2162.8	2198.1	2175.7	2076.2	2008.8	1963.9	1896.5	1858.0	1861.2
72.5°	1758.5	1803.4	1867.6	1922.2	1874.0	1793.8	1687.9	1633.4	1546.7	1505.0	1508.2
75°	1341.4	1389.5	1450.5	1508.2	1469.7	1370.2	1302.8	1248.3	1148.8	1100.7	1110.3
77.5°	924.2	949.9	1023.7	1020.5	1007.6	978.7	879.3	815.1	712.4	654.6	661.0
80°	574.4	590.5	625.8	641.8	635.4	596.9	516.6	468.5	407.5	372.2	375.5
82.5°	346.6	356.2	388.3	391.5	388.3	359.4	298.4	263.1	224.6	205.4	205.4
85°	176.5	182.9	202.2	202.2	182.9	154.0	138.0	121.9	99.5	89.9	89.9
87.5°	48.1	48.1	61.0	51.3	41.7	38.5	19.3	16.0	6.4	3.2	3.2
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)