

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: P643247

Luminaire Tested: GWS-SA6E-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

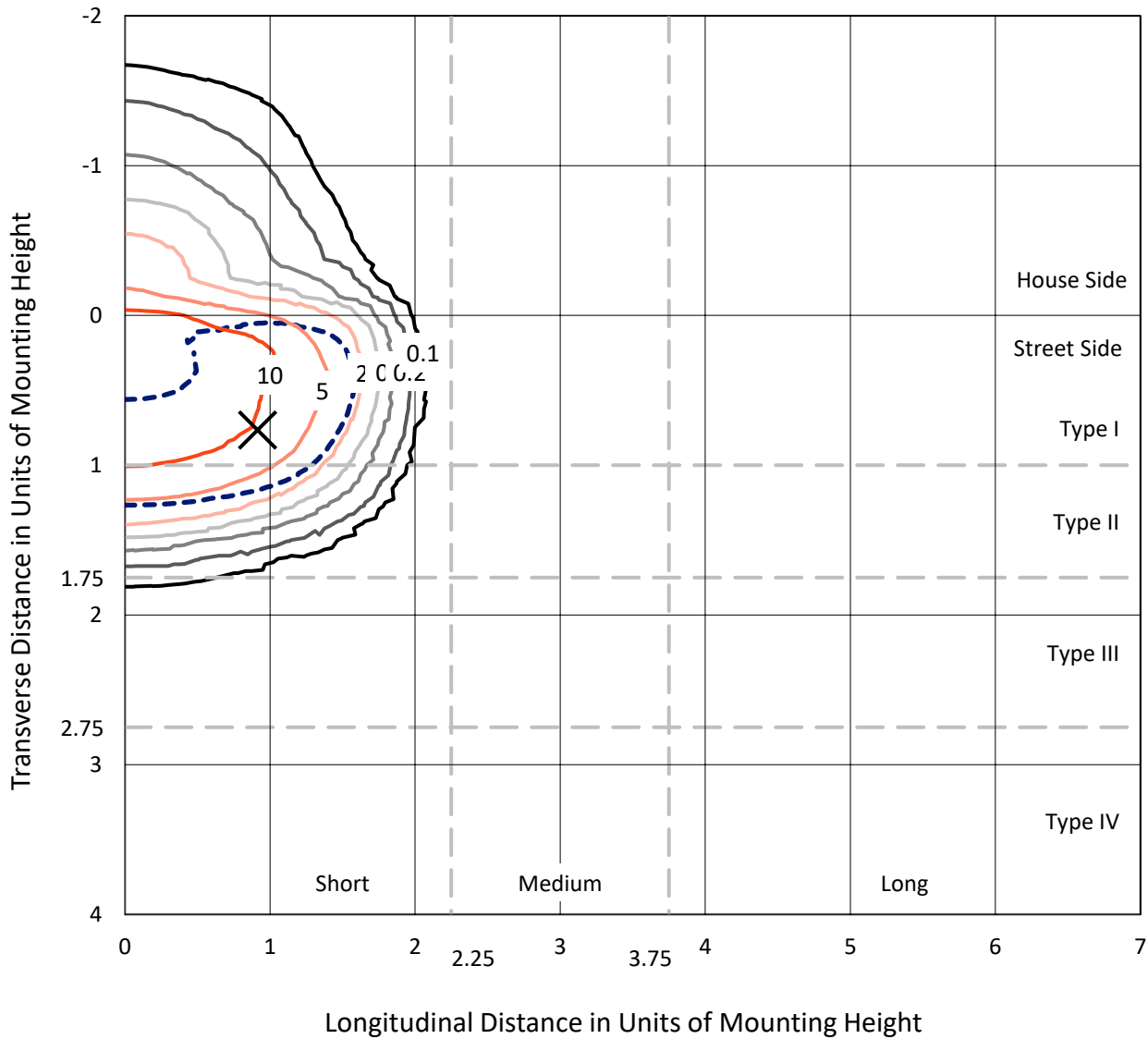
Lumens per Lamp: N/A  
Luminaire Lumens: 34486.8 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

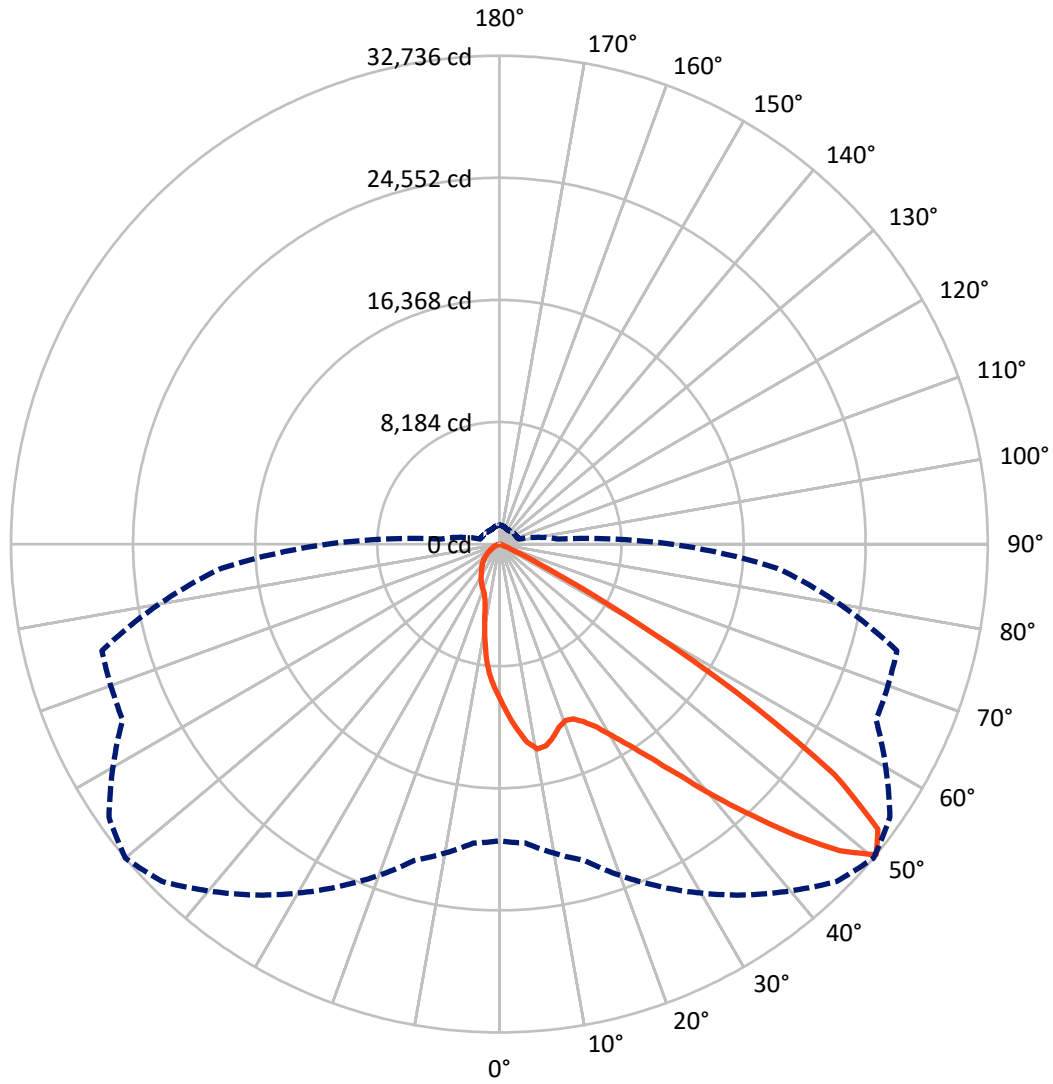
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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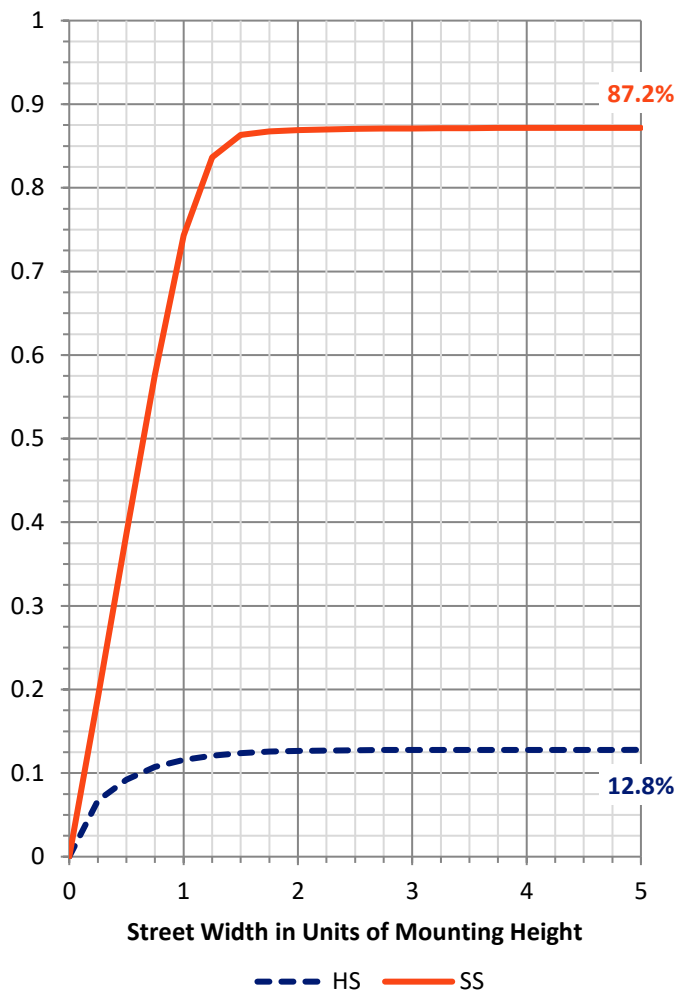
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4431.0	0.0	4431.0
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	30055.8	0.0	30055.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	34486.8	0.0	34486.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	969.2	2.8
10°-20°	2500.7	7.3
20°-30°	4127.0	12.0
30°-40°	6810.4	19.7
40°-50°	10775.7	31.2
50°-60°	8158.4	23.7
60°-70°	1021.1	3.0
70°-80°	115.5	0.3
80°-90°	8.8	0.0
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°	34486.8	100.0
0°-180°	34486.8	100.0

**Coefficient of Utilization**



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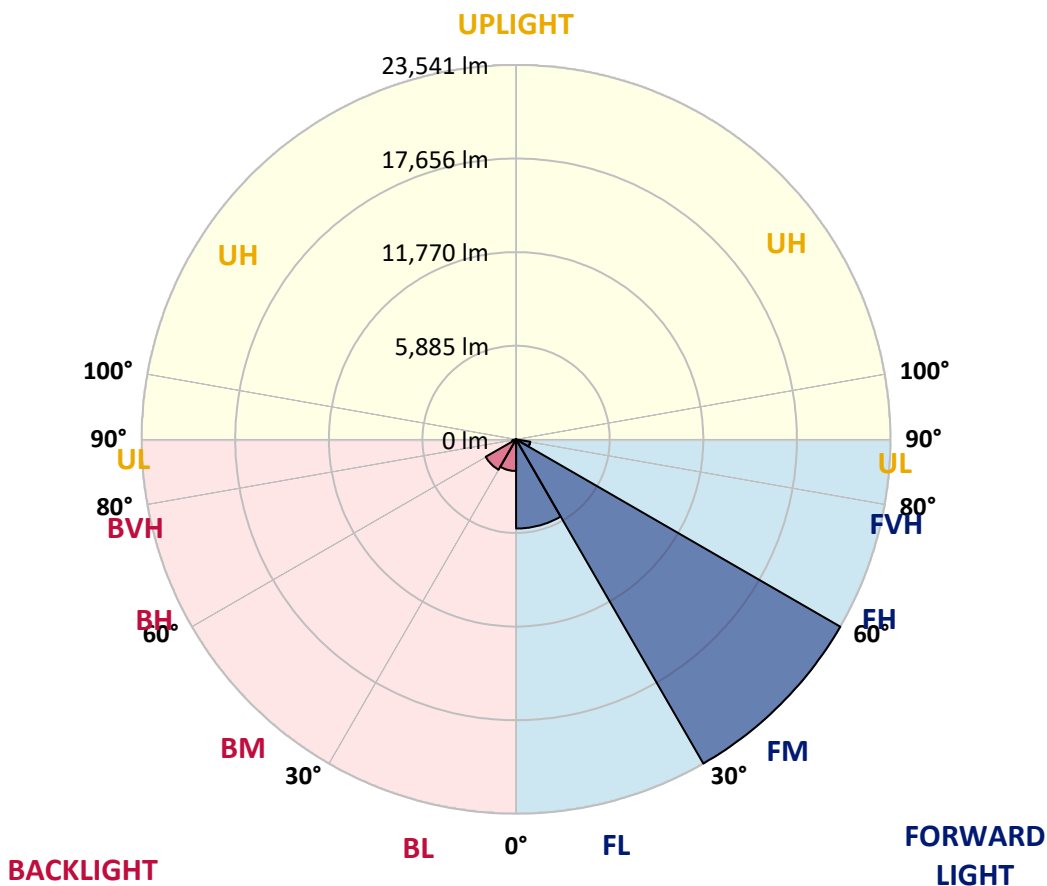
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5608.1	16.3			
FM (30°-60°)	23540.9	68.3			
FH (60°-80°)	902.8	2.6			G1/1800
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	1988.8	5.8	B3/2500		
BM (30°-60°)	2203.6	6.4	B2/2500		
BH (60°-80°)	233.8	0.7	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1
2.5°	11905.5	12000.7	11974.5	11849.7	11715.2	11620.0	11472.3	11426.3	11091.5	10858.4	10612.3
5°	13343.3	13372.8	13340.0	13189.0	12952.7	12726.2	12483.3	12342.1	11780.8	11275.3	10760.0
7.5°	13687.9	13651.8	13714.2	13789.7	13756.9	13658.4	13402.4	13248.1	12578.5	11754.6	10973.3
10°	12611.3	12529.2	12762.3	13152.9	13563.2	14026.0	13960.4	13973.5	13356.4	12358.5	11252.3
12.5°	11183.4	11150.6	11324.6	11777.5	12581.7	13632.1	13884.9	14308.3	14068.7	13011.7	11570.7
15°	10556.5	10572.9	10677.9	10963.5	11541.2	12847.6	13454.9	14219.7	14705.5	13645.3	11922.0
17.5°	10651.6	10710.7	10707.4	10802.6	11153.9	12201.0	12910.0	13940.7	15197.9	14374.0	12325.7
20°	11298.3	11357.4	11268.7	11196.5	11314.7	12036.8	12624.4	13658.4	15529.4	15109.2	12752.4
22.5°	12266.6	12335.6	12125.5	11918.7	11843.2	12306.0	12732.7	13543.5	15782.2	15782.2	13133.2
25°	13438.5	13533.7	13208.7	12841.1	12631.0	12873.9	13195.6	13802.8	16041.5	16386.1	13392.5
27.5°	14748.2	14751.5	14472.4	14058.9	13665.0	13694.5	13888.2	14387.1	16327.0	17036.1	13596.0
30°	16222.0	16231.9	15860.9	15365.3	14869.6	14735.0	14899.2	15276.7	16921.2	17853.4	13878.3
32.5°	18125.8	18171.8	17640.0	16911.3	16268.0	16015.2	16110.4	16507.6	17866.5	18877.5	14301.8
35°	20699.3	20748.5	19964.0	19002.3	17978.1	17597.4	17692.6	18093.0	19235.3	20331.7	14977.9
37.5°	23239.9	23305.6	22511.2	21615.1	20210.2	19580.0	19678.5	20059.2	21290.2	22340.5	16061.2
40°	24996.1	25084.7	24838.5	24234.5	22931.4	22104.2	22222.4	22360.2	23551.8	24743.3	17466.1
42.5°	25921.7	26046.5	26151.5	26460.1	25774.0	25081.4	24881.2	24891.0	25852.8	27192.1	18926.8
45°	25977.5	26099.0	26637.3	27828.9	28350.8	28206.3	27842.0	27595.8	27608.9	28823.4	19839.3
47.5°	24172.2	24398.7	25406.4	27740.2	29703.1	30901.3	30717.4	30133.2	28347.5	28931.8	19740.8
50°	19895.1	20118.3	21949.9	25307.9	28718.4	31977.9	32736.2	31951.6	27865.0	27582.7	18726.5
52.5°	14449.5	14472.4	15660.7	19583.3	24726.9	29992.0	31777.7	31702.2	27129.7	25948.0	17341.3
55°	6863.7	6781.6	8117.6	11052.1	17101.7	24257.5	27267.5	28121.0	26085.9	24766.3	16268.0
57.5°	1999.0	2038.4	2632.5	4313.2	8554.1	15503.1	18674.0	20262.7	21411.6	20361.2	12617.8
60°	896.1	899.4	1001.2	1313.0	2849.2	7211.6	9653.8	11620.0	12801.7	11862.9	6259.7
62.5°	649.9	653.2	692.6	741.8	968.3	2442.2	3620.6	4825.2	4913.9	3216.8	1585.4
65°	541.6	541.6	548.2	548.2	581.0	873.1	1099.6	1418.0	1194.8	886.3	620.4
67.5°	436.6	439.9	446.4	446.4	436.6	436.6	472.7	518.6	554.7	686.0	571.2
70°	341.4	338.1	338.1	341.4	331.5	282.3	305.3	347.9	380.8	535.0	495.7
72.5°	265.9	269.2	265.9	252.8	229.8	167.4	180.5	226.5	242.9	334.8	334.8
75°	200.2	203.5	190.4	144.4	95.2	52.5	68.9	111.6	141.1	164.1	121.5
77.5°	26.3	26.3	19.7	19.7	16.4	19.7	19.7	26.3	39.4	39.4	29.5
80°	3.3	3.3	3.3	6.6	9.8	13.1	13.1	13.1	13.1	16.4	16.4
82.5°	3.3	3.3	3.3	3.3	9.8	9.8	13.1	13.1	13.1	13.1	13.1
85°	0.0	0.0	0.0	3.3	6.6	9.8	9.8	13.1	13.1	13.1	13.1
87.5°	0.0	0.0	0.0	3.3	6.6	9.8	9.8	9.8	13.1	13.1	13.1
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°	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1	10448.1
2.5°	10464.5	10274.2	10044.4	9886.8	9663.6	9515.9	9305.8	9164.7	9043.2	8948.0	9000.6
5°	10467.8	10165.8	9696.4	9296.0	8859.4	8458.9	8028.9	7690.8	7385.6	7247.7	7323.2
7.5°	10533.5	10100.2	9381.3	8669.0	7832.0	7004.8	6230.1	5599.9	5288.1	5140.4	5186.3
10°	10661.5	10070.6	9030.1	7848.4	6489.5	5360.3	4608.6	4181.9	4007.9	3916.0	3932.4
12.5°	10779.7	10050.9	8573.8	6768.5	5120.7	4158.9	3768.3	3709.2	3745.3	3748.6	3745.3
15°	10940.5	10014.8	8009.2	5659.0	4096.5	3594.3	3604.2	3689.5	3774.9	3801.1	3794.5
17.5°	11111.2	9959.0	7280.5	4595.5	3476.1	3430.2	3545.1	3660.0	3745.3	3758.4	3761.7
20°	11288.4	9844.2	6450.1	3751.9	3187.3	3305.5	3433.5	3518.8	3581.2	3600.9	3607.4
22.5°	11370.5	9601.2	5491.6	3147.9	2993.6	3151.2	3246.4	3358.0	3377.7	3305.5	3318.6
25°	11327.8	9190.9	4556.1	2740.9	2800.0	2957.5	3098.7	3042.9	2960.8	2908.3	2924.7
27.5°	11193.3	8646.0	3640.3	2442.2	2593.2	2793.4	2809.8	2747.4	2734.3	2691.6	2704.8
30°	11048.8	8019.1	2928.0	2202.5	2383.1	2593.2	2543.9	2566.9	2570.2	2520.9	2537.4
32.5°	10960.2	7362.6	2330.6	2041.7	2248.5	2287.9	2386.4	2432.3	2435.6	2320.7	2340.4
35°	10989.7	6716.0	1972.8	1910.4	2123.8	2113.9	2251.8	2278.0	2087.7	1930.1	1946.5
37.5°	11229.4	6118.5	1769.3	1808.6	1907.1	1982.6	2087.7	1913.7	1871.0	1798.8	1808.6
40°	11675.8	5609.8	1647.8	1746.3	1759.4	1880.9	1720.0	1743.0	1746.3	1700.3	1710.2
42.5°	12197.7	5186.3	1575.6	1710.2	1677.3	1697.0	1536.2	1582.2	1631.4	1611.7	1615.0
45°	12460.3	4772.7	1513.2	1585.4	1595.3	1408.2	1372.1	1421.3	1483.7	1493.5	1496.8
47.5°	12227.2	4378.8	1447.6	1404.9	1470.6	1283.4	1240.8	1257.2	1329.4	1368.8	1375.4
50°	11514.9	3925.8	1349.1	1244.1	1208.0	1152.1	1112.8	1116.0	1198.1	1267.0	1280.2
52.5°	10513.8	3453.2	1188.3	1053.7	971.6	1014.3	1024.1	1004.4	1079.9	1148.9	1162.0
55°	9542.2	2862.3	942.1	856.7	781.2	873.1	899.4	873.1	896.1	942.1	945.4
57.5°	6719.2	1618.3	722.1	709.0	646.6	748.4	791.1	751.7	712.3	741.8	748.4
60°	3115.1	846.9	554.7	554.7	538.3	643.4	715.6	659.8	584.3	597.4	607.3
62.5°	974.9	535.0	407.0	384.0	439.9	548.2	607.3	551.5	462.8	462.8	476.0
65°	551.5	459.5	321.7	295.4	357.8	439.9	476.0	416.9	338.1	331.5	331.5
67.5°	512.1	436.6	285.6	239.6	252.8	282.3	295.4	256.0	233.1	229.8	233.1
70°	423.4	364.4	229.8	164.1	154.3	151.0	157.6	147.7	141.1	144.4	154.3
72.5°	262.6	219.9	144.4	98.5	85.3	82.1	82.1	82.1	78.8	78.8	78.8
75°	95.2	82.1	65.6	49.2	42.7	39.4	39.4	42.7	39.4	36.1	32.8
77.5°	29.5	26.3	26.3	26.3	23.0	19.7	16.4	16.4	13.1	9.8	9.8
80°	16.4	16.4	16.4	16.4	13.1	13.1	9.8	6.6	3.3	3.3	0.0
82.5°	16.4	16.4	16.4	13.1	13.1	13.1	9.8	6.6	3.3	0.0	0.0
85°	13.1	13.1	13.1	13.1	13.1	13.1	9.8	6.6	3.3	0.0	0.0
87.5°	13.1	13.1	13.1	13.1	13.1	13.1	9.8	6.6	3.3	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)