

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: P643176

Luminaire Tested: GWS-SA6E-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-735-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

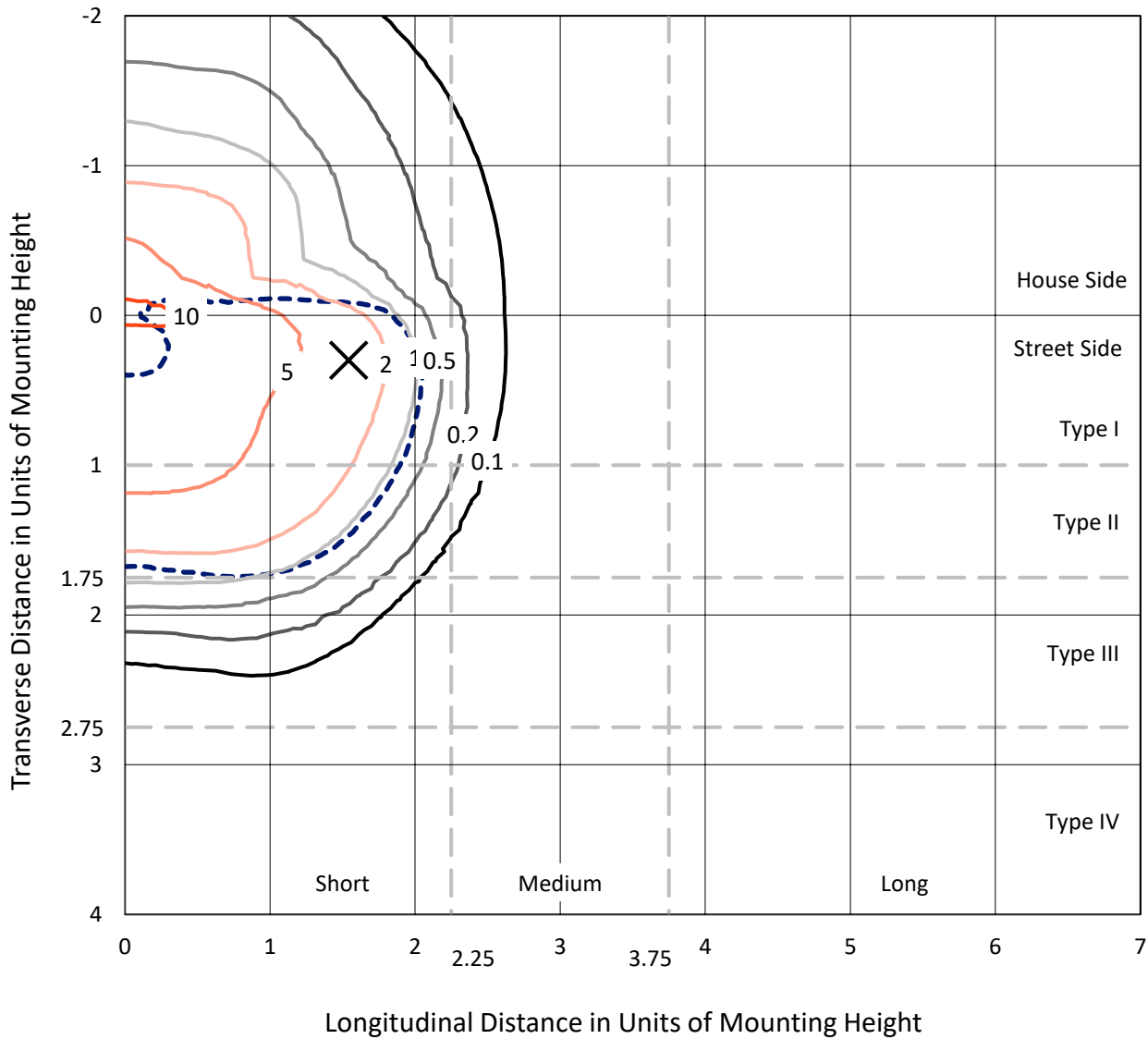
Lumens per Lamp: N/A  
Luminaire Lumens: 38708.7 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

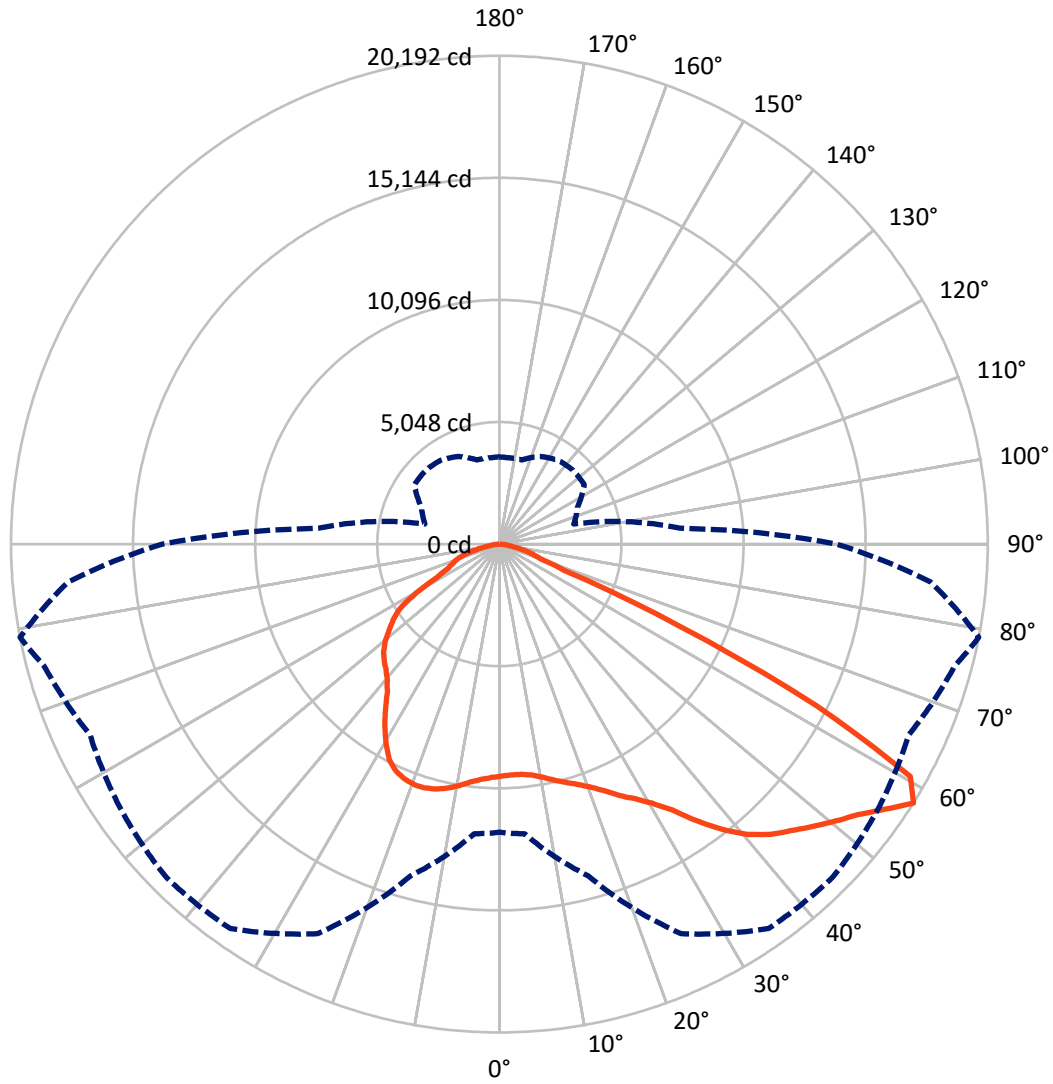
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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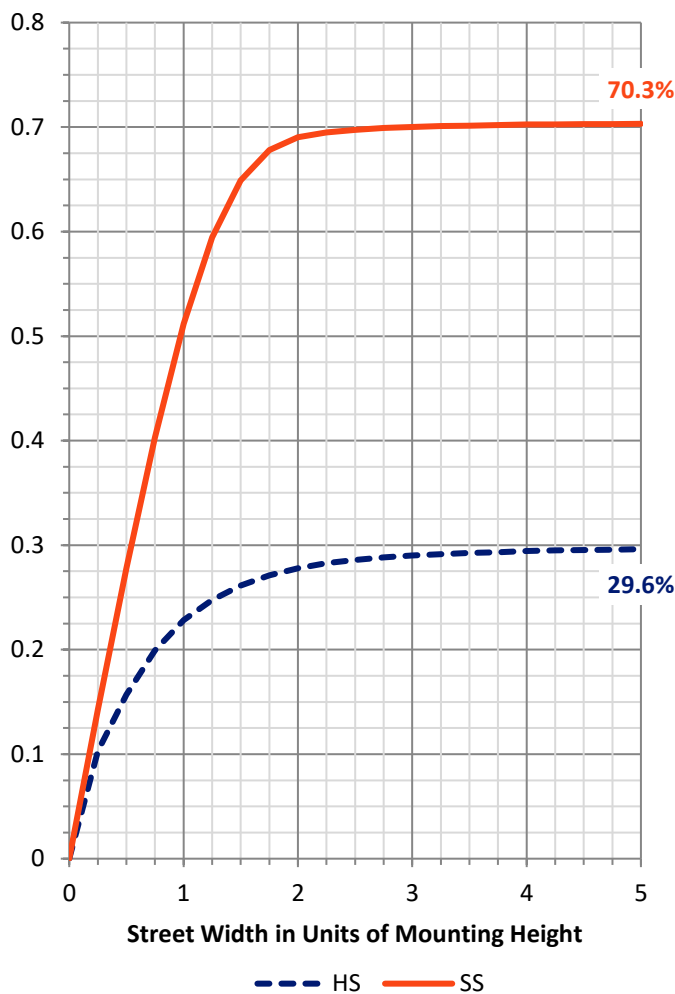
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11506.3	0.0	11506.3
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	27202.4	0.0	27202.4
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	38708.7	0.0	38708.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	888.4	2.3
10°-20°	2468.8	6.4
20°-30°	4184.8	10.8
30°-40°	6405.3	16.5
40°-50°	8540.9	22.1
50°-60°	9864.1	25.5
60°-70°	5125.7	13.2
70°-80°	1089.6	2.8
80°-90°	141.1	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°	38708.7	100.0
0°-180°	38708.7	100.0

**Coefficient of Utilization**



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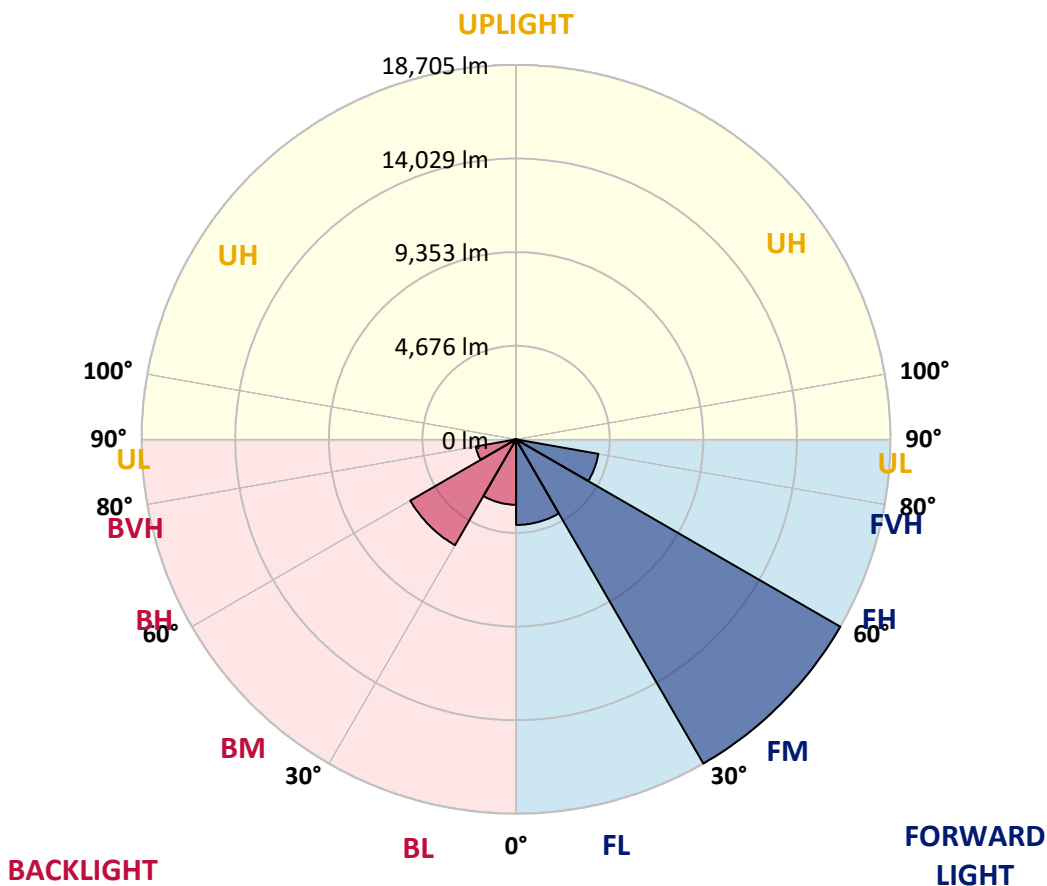
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4274.3	11.0			
FM (30°-60°)	18705.1	48.3			
FH (60°-80°)	4173.8	10.8			G2/5000
FVH (80°-90°)	49.2	0.1			G1/100
BL (0°-30°)	3267.7	8.4	B4/5000		
BM (30°-60°)	6105.2	15.8	B4/8500		
BH (60°-80°)	2041.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	91.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9
2.5°	9156.2	9137.2	9143.5	9168.8	9263.8	9333.4	9406.2	9472.6	9535.9	9554.9	9570.8
5°	8830.2	8795.3	8804.8	8846.0	8956.8	9073.9	9203.6	9361.9	9513.8	9564.4	9630.9
7.5°	8599.1	8592.8	8608.6	8671.9	8789.0	8899.8	9067.5	9292.2	9554.9	9640.4	9757.5
10°	8292.1	8279.5	8342.8	8472.5	8665.6	8842.8	9042.2	9308.1	9675.2	9801.8	9982.2
12.5°	8048.4	8042.1	8108.6	8289.0	8535.8	8817.5	9092.9	9390.4	9836.6	10010.7	10232.2
15°	8190.8	8162.4	8165.5	8292.1	8513.7	8846.0	9219.4	9539.1	9998.0	10219.6	10504.4
17.5°	8605.5	8554.8	8516.8	8539.0	8665.6	9010.6	9412.5	9738.5	10184.8	10444.3	10792.4
20°	9178.3	9149.8	9045.4	8975.7	9004.2	9308.1	9716.3	10020.2	10428.5	10719.6	11093.1
22.5°	9947.4	9877.8	9735.3	9624.6	9539.1	9776.5	10153.1	10415.8	10767.1	11070.9	11460.2
25°	10900.0	10798.8	10574.0	10400.0	10216.4	10460.1	10795.6	10995.0	11232.3	11514.0	11884.3
27.5°	11871.7	11786.2	11536.2	11302.0	11074.1	11226.0	11624.8	11738.7	11713.4	11919.1	12235.6
30°	12906.6	12799.0	12561.6	12308.4	12014.1	12112.2	12469.8	12526.8	12257.8	12428.7	12643.9
32.5°	13998.5	13894.1	13688.3	13394.0	13061.7	13099.7	13197.8	13251.6	12995.2	13093.3	13257.9
35°	15109.4	15011.3	14802.4	14511.2	14267.5	14036.5	13789.6	14004.8	13856.1	14046.0	14033.3
37.5°	16125.3	16027.2	15897.5	15672.7	15255.0	14799.2	14229.5	14495.4	14726.4	14967.0	14925.8
40°	16812.1	16745.7	16777.3	16742.5	16204.5	15302.4	14444.8	14735.9	15365.7	15777.2	15755.0
42.5°	17404.0	17337.5	17521.1	17654.0	17021.0	15767.7	14549.2	14827.7	15774.0	16416.5	16384.9
45°	17666.7	17647.7	17951.5	18372.4	17767.9	16261.4	14818.2	15017.6	16084.2	16907.1	16786.8
47.5°	17353.3	17419.8	18018.0	18730.1	18388.3	16846.9	15368.9	15419.6	16489.3	17438.8	17100.1
50°	16729.8	16875.4	17682.5	18739.6	18840.8	17508.4	16131.7	16005.1	17033.7	18005.3	17264.7
52.5°	15821.5	15973.4	17290.0	18666.8	19100.4	18274.3	17147.6	16967.2	17720.5	18571.8	17293.2
55°	13735.8	13941.5	16391.2	18502.2	19353.6	18970.6	18293.3	17926.2	18606.6	19350.4	17574.9
57.5°	11916.0	12023.6	14201.1	17771.1	19404.2	19483.3	19109.9	18673.1	19486.5	20192.3	17891.4
60°	8744.7	8770.0	10729.1	14704.3	17850.2	19185.8	19043.4	18394.6	19068.7	19518.1	16441.8
62.5°	4940.5	4943.6	6507.1	9814.5	13333.9	15637.9	15726.6	15153.7	14587.2	14720.1	11444.4
65°	1854.7	2028.7	2971.9	4823.4	7687.6	9232.1	9599.2	9732.2	8789.0	8203.5	6136.8
67.5°	1240.7	1281.8	1734.4	2481.3	3421.3	3949.8	4418.2	4430.9	3240.9	2889.6	2418.0
70°	946.3	987.5	1364.1	1775.5	1734.4	1601.5	1731.2	1683.7	1740.7	1788.2	1838.8
72.5°	705.8	746.9	1057.1	1253.3	1041.3	1025.4	1161.5	1291.3	1411.6	1462.2	1541.3
75°	468.4	500.1	712.1	671.0	576.0	680.5	848.2	978.0	1047.6	1107.7	1167.9
77.5°	297.5	319.7	379.8	307.0	319.7	398.8	493.7	610.8	677.3	737.4	769.1
80°	136.1	132.9	129.8	145.6	180.4	234.2	297.5	367.1	417.8	443.1	462.1
82.5°	53.8	60.1	66.5	79.1	98.1	126.6	167.7	215.2	256.4	262.7	278.5
85°	22.2	25.3	28.5	34.8	44.3	57.0	69.6	98.1	123.4	132.9	142.4
87.5°	0.0	0.0	0.0	0.0	3.2	6.3	9.5	15.8	28.5	31.6	34.8
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°	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9	9592.9
2.5°	9656.2	9615.1	9684.7	9732.2	9776.5	9729.0	9713.2	9672.0	9665.7	9665.7	9687.9
5°	9744.8	9716.3	9789.1	9817.6	9814.5	9710.0	9646.7	9564.4	9523.3	9523.3	9529.6
7.5°	9903.1	9887.2	9928.4	9884.1	9782.8	9570.8	9361.9	9187.8	9070.7	9010.6	9029.6
10°	10165.8	10146.8	10112.0	9947.4	9656.2	9216.3	8789.0	8472.5	8282.6	8175.0	8181.4
12.5°	10422.1	10390.5	10267.0	9903.1	9304.9	8605.5	8045.3	7690.8	7481.9	7355.3	7326.8
15°	10703.8	10621.5	10355.7	9675.2	8732.0	7858.5	7273.0	6890.1	6665.3	6589.4	6586.2
17.5°	10972.8	10827.2	10346.2	9270.1	8045.3	7076.8	6488.1	6250.7	6212.8	6247.6	6257.1
20°	11245.0	11010.8	10241.7	8709.9	7228.7	6298.2	5994.4	6092.5	6234.9	6329.9	6352.0
22.5°	11526.7	11162.7	10004.4	7988.3	6367.8	5772.8	5899.4	6114.6	6291.9	6418.5	6431.1
25°	11843.2	11305.1	9649.9	7105.3	5677.9	5627.3	5877.3	6105.2	6295.1	6440.6	6466.0
27.5°	12023.6	11308.3	9153.0	6196.9	5361.4	5570.3	5823.5	6038.7	6228.6	6386.8	6415.3
30°	12200.8	11222.9	8364.9	5459.5	5269.6	5503.8	5731.7	5931.1	6111.5	6266.6	6301.4
32.5°	12450.8	11143.7	7456.6	5035.4	5215.8	5440.5	5627.3	5804.5	5943.7	6013.4	6032.4
35°	12761.0	11042.4	6491.3	4851.8	5181.0	5389.9	5554.5	5649.4	5469.0	5431.0	5472.2
37.5°	13194.6	10947.5	5529.1	4772.7	5158.8	5370.9	5516.5	5272.8	5051.2	4962.6	4994.3
40°	13663.0	10893.7	4877.2	4709.4	5168.3	5389.9	5358.2	4997.4	4677.8	4491.0	4484.7
42.5°	14061.8	10811.4	4459.4	4668.3	5193.7	5462.7	5143.0	4753.7	4279.0	4168.2	4171.4
45°	14330.8	10602.5	4237.8	4624.0	5215.8	5478.5	5041.7	4418.2	4079.6	4010.0	4006.8
47.5°	14441.6	10222.7	4095.4	4554.3	5212.6	5348.7	4836.0	4279.0	3940.3	3921.4	3934.0
50°	14368.8	9599.2	3949.8	4418.2	5136.7	5212.6	4598.6	4155.6	3845.4	3949.8	4025.8
52.5°	14099.8	8792.2	3775.8	4231.5	5000.6	5057.6	4478.4	4079.6	3775.8	3915.0	3975.2
55°	14030.1	8137.0	3554.2	3987.8	4798.0	4782.2	4351.8	4041.6	3728.3	3674.5	3684.0
57.5°	13938.4	7497.7	3187.1	3551.1	4285.3	4310.6	4231.5	3997.3	3604.9	3589.0	3604.9
60°	12109.0	5747.5	2842.1	3063.7	3519.4	3655.5	4095.4	3915.0	3405.5	3339.0	3335.8
62.5°	7909.2	3481.4	2528.8	2671.2	2867.4	3025.7	3734.6	3677.7	3187.1	3145.9	3174.4
65°	4253.7	2481.3	2300.9	2386.4	2494.0	2614.2	3095.3	3275.7	2880.1	2734.5	2737.7
67.5°	2174.3	2111.0	2130.0	2190.1	2272.4	2332.6	2497.1	2655.4	2456.0	2332.6	2329.4
70°	1861.0	1911.6	1940.1	1974.9	2028.7	2019.2	2035.1	2063.5	2047.7	1987.6	1984.4
72.5°	1585.6	1664.8	1671.1	1677.4	1696.4	1652.1	1623.6	1576.1	1579.3	1588.8	1592.0
75°	1205.8	1281.8	1300.8	1291.3	1310.3	1253.3	1215.3	1167.9	1110.9	1101.4	1107.7
77.5°	784.9	845.0	873.5	867.2	876.7	832.4	813.4	762.7	696.3	671.0	671.0
80°	474.7	509.6	531.7	538.0	547.5	515.9	484.2	439.9	411.4	383.0	383.0
82.5°	288.0	310.2	326.0	326.0	335.5	300.7	275.3	243.7	231.0	205.7	205.7
85°	145.6	161.4	167.7	164.6	158.2	129.8	120.3	104.4	98.1	85.5	85.5
87.5°	34.8	44.3	44.3	31.6	31.6	15.8	9.5	3.2	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)