

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: P642237

Luminaire Tested: GWS-SA6C-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642237  
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-SA6C-740-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

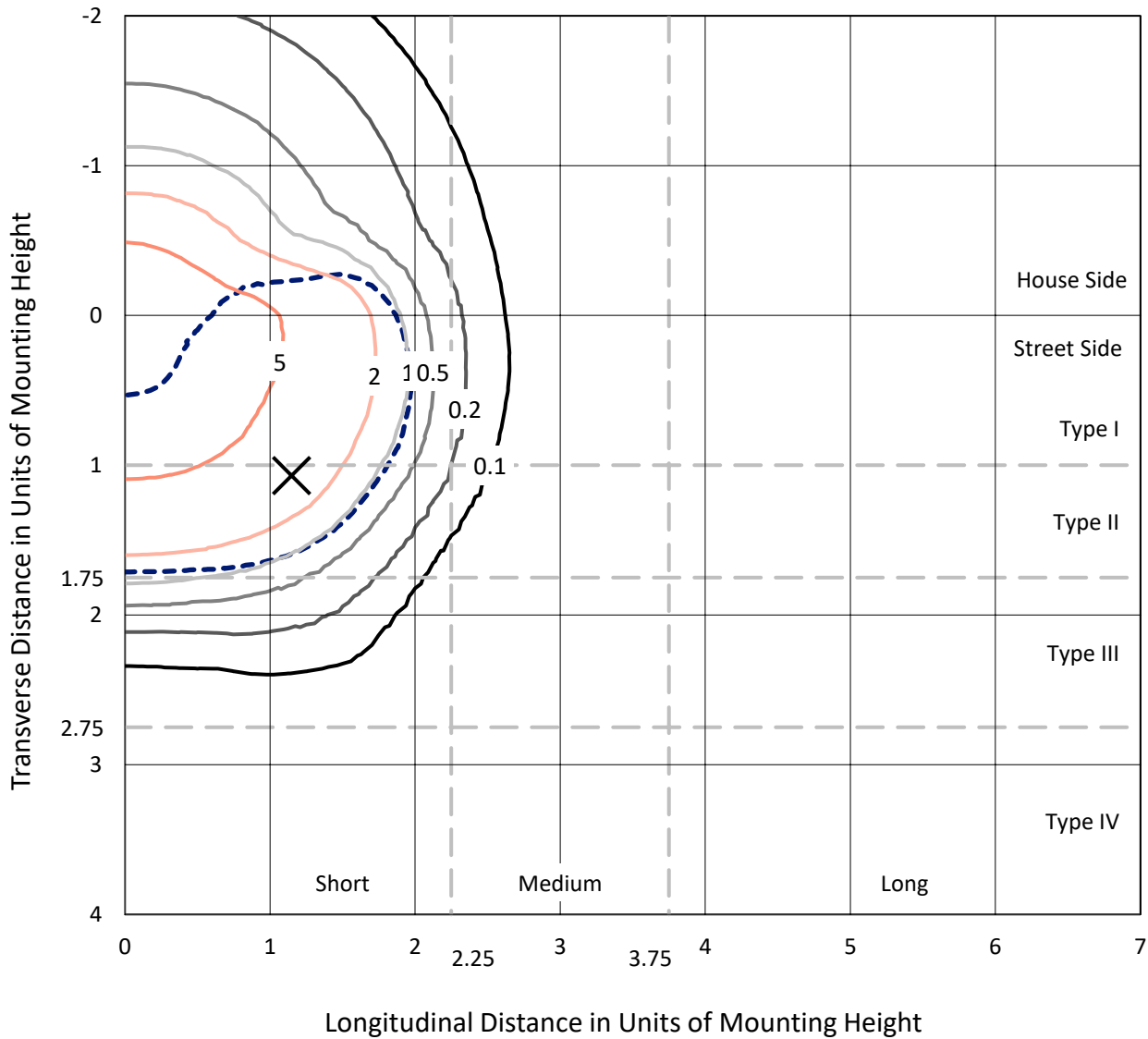
Lumens per Lamp: N/A  
Luminaire Lumens: 24235.1 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

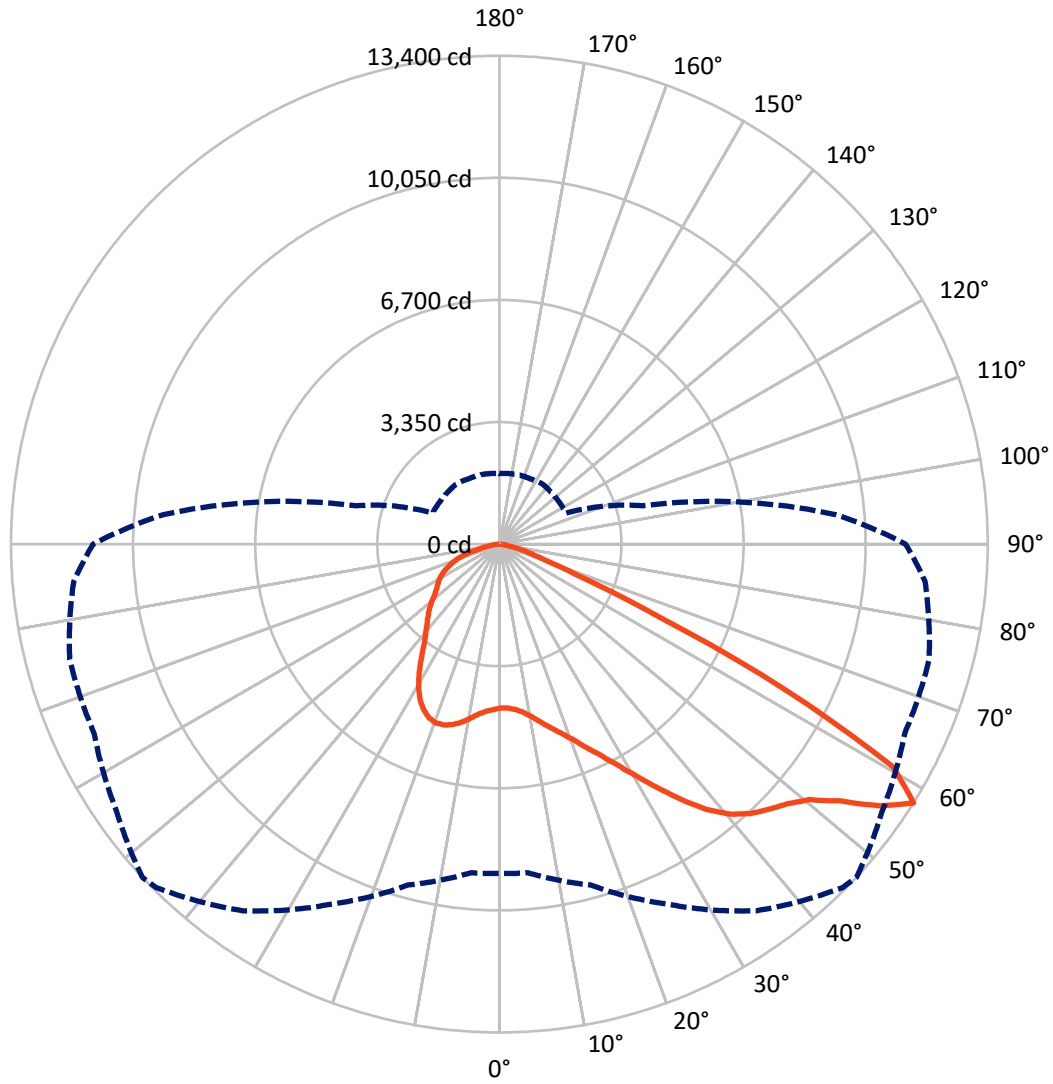
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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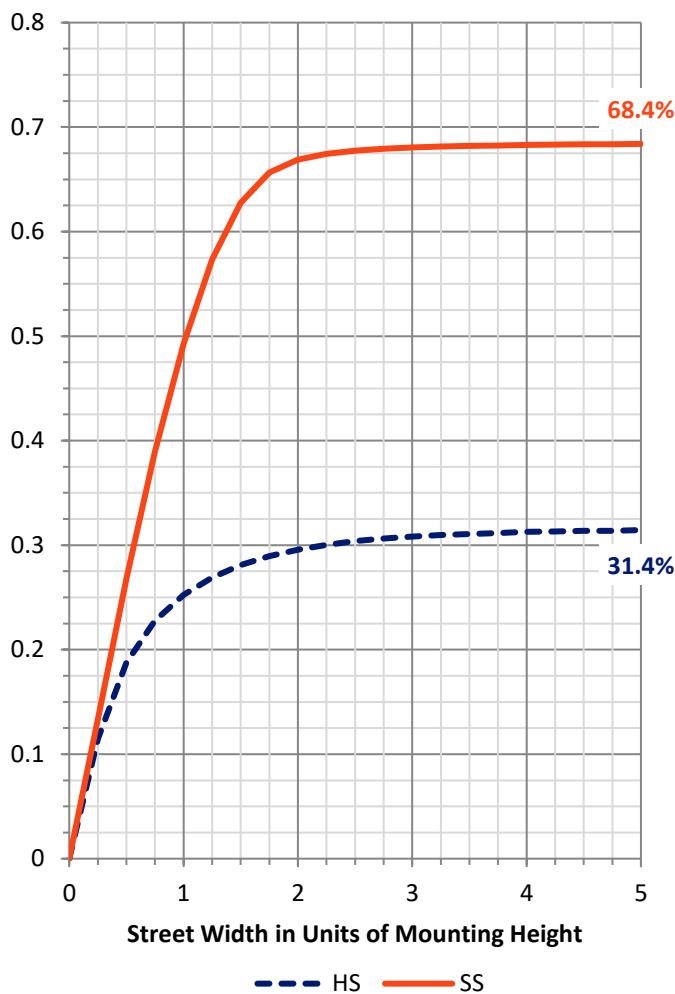
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7670.4	0.0	7670.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	16564.8	0.0	16564.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	24235.1	0.0	24235.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.3	1.8
10°-20°	1458.0	6.0
20°-30°	2625.3	10.8
30°-40°	3965.2	16.4
40°-50°	5339.7	22.0
50°-60°	6416.3	26.5
60°-70°	3124.9	12.9
70°-80°	769.8	3.2
80°-90°	92.5	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°	24235.1	100.0
0°-180°	24235.1	100.0

**Coefficient of Utilization**



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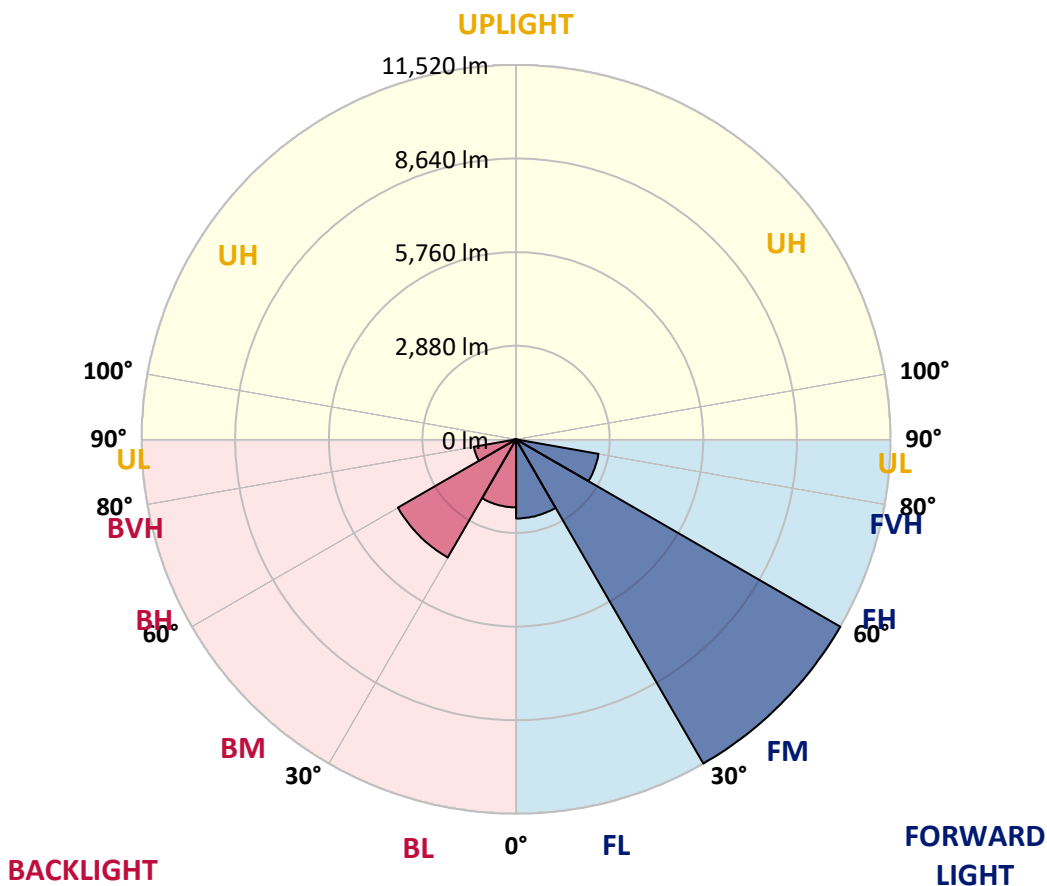
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.3	10.0			
FM (30°-60°)	11520.2	47.5			
FH (60°-80°)	2575.5	10.6			G2/5000
FVH (80°-90°)	34.8	0.1			G1/100
BL (0°-30°)	2092.3	8.6	B3/2500		
BM (30°-60°)	4201.0	17.3	B3/5000		
BH (60°-80°)	1319.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	57.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4
2.5°	4486.3	4484.3	4484.3	4496.5	4496.5	4500.5	4506.6	4512.8	4514.8	4504.6	4482.2
5°	4535.1	4535.1	4535.1	4545.3	4545.3	4549.4	4557.5	4559.6	4557.5	4541.3	4518.9
7.5°	4612.5	4612.5	4614.5	4626.7	4636.9	4643.0	4657.3	4655.2	4649.1	4622.7	4594.2
10°	4738.7	4744.8	4750.9	4765.2	4785.5	4799.8	4809.9	4809.9	4801.8	4761.1	4724.4
12.5°	4917.8	4926.0	4932.1	4944.3	4960.6	4985.0	5007.4	5007.4	4997.2	4946.3	4891.4
15°	5127.5	5135.6	5133.6	5137.7	5168.2	5202.8	5221.1	5233.3	5237.4	5166.2	5080.7
17.5°	5367.7	5375.8	5367.7	5355.5	5359.5	5414.5	5447.1	5491.8	5518.3	5422.6	5286.3
20°	5585.5	5577.3	5577.3	5585.5	5597.7	5664.9	5713.7	5787.0	5819.6	5703.5	5491.8
22.5°	5815.5	5833.8	5825.7	5825.7	5874.5	5986.5	6045.5	6141.2	6175.8	6025.1	5740.2
25°	6112.7	6129.0	6124.9	6129.0	6186.0	6344.7	6403.8	6580.8	6615.4	6399.7	6015.0
27.5°	6438.4	6464.8	6477.0	6473.0	6564.6	6772.2	6845.5	7091.8	7154.9	6819.0	6308.1
30°	6861.7	6890.2	6900.4	6896.4	7004.2	7287.2	7370.6	7651.5	7741.1	7315.7	6680.6
32.5°	7352.3	7380.8	7411.3	7423.6	7562.0	7851.0	7971.1	8262.2	8390.4	7889.7	7130.4
35°	7838.8	7863.2	7922.3	8017.9	8207.2	8502.4	8608.2	8895.2	9019.4	8486.1	7673.9
37.5°	8376.2	8392.5	8443.3	8575.7	8848.4	9129.3	9235.2	9510.0	9524.2	9062.1	8288.6
40°	8964.4	8964.4	8954.3	9084.5	9369.5	9652.4	9744.0	9902.8	9819.4	9505.9	8887.1
42.5°	9463.1	9455.0	9463.1	9585.3	9797.0	10027.0	10106.4	10075.8	9970.0	9845.8	9428.5
45°	9913.0	9919.1	9992.4	10086.0	10195.9	10332.3	10379.1	10206.1	10110.4	10118.6	9862.1
47.5°	10218.3	10224.4	10395.4	10552.2	10619.3	10662.1	10641.7	10401.5	10352.7	10444.3	10195.9
50°	10259.0	10291.6	10586.8	10908.4	11075.3	11081.4	11024.4	10731.3	10717.0	10820.8	10375.1
52.5°	10267.2	10299.7	10668.2	11248.3	11681.9	11773.5	11708.3	11403.0	11254.4	11150.6	10594.9
55°	10236.6	10273.3	10680.4	11476.3	12306.8	12673.2	12679.3	12247.7	11773.5	11704.3	11221.8
57.5°	9037.7	9052.0	9683.0	10896.2	12282.3	13320.5	13399.8	12813.6	12272.2	12207.0	11724.6
60°	6295.9	6352.9	7038.8	8640.8	10318.1	12148.0	12404.5	12233.5	11871.2	11396.9	10059.6
62.5°	3153.0	3201.9	3889.9	5404.3	7116.2	8561.4	8836.2	9017.4	9102.9	8594.0	6849.5
65°	1357.7	1394.3	1821.8	2823.3	4028.3	4726.5	4822.2	5040.0	5573.3	4972.8	3690.4
67.5°	907.8	932.3	1150.1	1722.1	2373.4	2418.2	2404.0	2450.8	2566.8	2119.0	1667.1
70°	696.1	716.5	863.1	1262.0	1705.8	1459.5	1382.1	1253.9	1361.8	1388.2	1351.6
72.5°	504.8	521.1	631.0	861.0	1068.6	932.3	920.1	985.2	1131.8	1172.5	1150.1
75°	325.7	333.8	401.0	472.2	551.6	598.4	622.9	740.9	889.5	920.1	893.6
77.5°	217.8	223.9	262.6	303.3	313.5	315.5	323.6	376.6	478.3	535.3	529.2
80°	114.0	114.0	128.2	128.2	146.6	175.1	183.2	217.8	264.6	293.1	295.2
82.5°	44.8	46.8	55.0	61.1	73.3	89.6	95.7	114.0	138.4	158.8	177.1
85°	18.3	20.4	22.4	26.5	32.6	40.7	42.7	48.9	65.1	81.4	91.6
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	6.1	8.1	10.2	18.3	24.4
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°	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4	4494.4
2.5°	4508.7	4482.2	4508.7	4516.8	4539.2	4547.4	4533.1	4531.1	4531.1	4510.7	4504.6
5°	4539.2	4514.8	4541.3	4553.5	4586.0	4606.4	4610.5	4626.7	4636.9	4628.8	4626.7
7.5°	4614.5	4584.0	4612.5	4630.8	4673.6	4706.1	4720.4	4757.0	4783.5	4779.4	4777.4
10°	4746.8	4706.1	4738.7	4769.2	4816.0	4854.7	4856.8	4877.1	4903.6	4895.4	4891.4
12.5°	4899.5	4860.8	4897.5	4928.0	4983.0	4999.2	4972.8	4964.6	4968.7	4958.5	4950.4
15°	5086.8	5031.8	5064.4	5099.0	5129.5	5111.2	5054.2	5031.8	5029.8	5015.5	5007.4
17.5°	5274.0	5204.8	5229.3	5247.6	5233.3	5176.3	5105.1	5066.4	5048.1	5019.6	5011.5
20°	5459.3	5371.7	5367.7	5353.4	5288.3	5184.5	5088.8	5011.5	4964.6	4926.0	4911.7
22.5°	5671.0	5548.8	5487.8	5422.6	5280.1	5111.2	4966.7	4856.8	4781.4	4732.6	4716.3
25°	5898.9	5725.9	5599.7	5469.4	5198.7	4954.5	4752.9	4602.3	4512.8	4459.8	4441.5
27.5°	6124.9	5886.7	5697.4	5475.6	5035.9	4728.5	4457.8	4254.2	4164.7	4121.9	4107.7
30°	6430.2	6100.5	5813.5	5396.2	4822.2	4415.0	4077.2	3871.6	3812.5	3782.0	3769.8
32.5°	6782.4	6371.2	5968.2	5229.3	4549.4	4048.7	3692.4	3550.0	3509.2	3450.2	3448.2
35°	7246.5	6757.9	6114.7	4983.0	4205.4	3655.8	3397.3	3295.5	3222.2	3128.6	3120.5
37.5°	7787.9	7240.4	6194.1	4669.5	3804.4	3332.2	3177.5	3063.5	2945.4	2821.2	2805.0
40°	8347.7	7804.2	6200.2	4299.0	3411.5	3118.4	2988.1	2839.6	2693.0	2554.6	2536.3
42.5°	8935.9	8329.4	6092.3	3871.6	3089.9	2933.2	2800.9	2613.6	2448.7	2355.1	2344.9
45°	9461.1	8752.7	5848.1	3421.7	2851.8	2778.5	2609.5	2408.0	2320.5	2253.3	2239.1
47.5°	9874.3	9033.7	5518.3	3018.7	2658.4	2619.7	2399.9	2296.1	2228.9	2167.8	2153.6
50°	10077.9	9096.8	5088.8	2691.0	2479.3	2432.4	2281.8	2202.4	2157.7	2108.8	2096.6
52.5°	10330.3	9168.0	4718.3	2416.2	2304.2	2241.1	2184.1	2121.0	2088.4	2057.9	2047.7
55°	10910.4	9436.7	4522.9	2196.3	2137.3	2108.8	2100.7	2047.7	2037.6	2017.2	1998.9
57.5°	11146.5	9263.7	4060.9	2017.2	2005.0	2009.1	2029.4	1980.6	1970.4	1946.0	1933.7
60°	8964.4	7002.2	2750.0	1862.5	1895.1	1921.5	1941.9	1893.0	1878.8	1874.7	1858.4
62.5°	5744.2	4307.2	1919.5	1718.0	1766.8	1799.4	1811.6	1764.8	1754.6	1787.2	1789.2
65°	2990.2	2347.0	1557.2	1563.3	1604.0	1652.8	1677.3	1661.0	1656.9	1691.5	1693.6
67.5°	1526.6	1435.0	1357.7	1380.1	1412.7	1475.8	1532.7	1604.0	1628.4	1632.5	1634.5
70°	1300.7	1260.0	1221.3	1235.6	1270.2	1304.8	1359.7	1394.3	1353.6	1343.4	1339.4
72.5°	1107.3	1076.8	1058.5	1074.8	1093.1	1087.0	1070.7	1087.0	1093.1	1095.1	1097.1
75°	861.0	838.6	824.4	826.4	826.4	804.0	773.5	755.2	734.8	718.5	718.5
77.5°	527.2	531.3	545.5	543.5	541.4	533.3	502.8	486.5	437.6	423.4	423.4
80°	301.3	307.4	321.6	325.7	325.7	315.5	285.0	266.7	244.3	234.1	232.0
82.5°	183.2	191.3	199.5	203.6	205.6	193.4	166.9	152.7	140.5	130.3	130.3
85°	95.7	99.7	107.9	109.9	103.8	91.6	77.3	71.2	59.0	57.0	57.0
87.5°	26.5	28.5	32.6	26.5	24.4	18.3	10.2	8.1	4.1	2.0	2.0
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)