

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: P642182

Luminaire Tested: GWS-SA6C-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642182  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

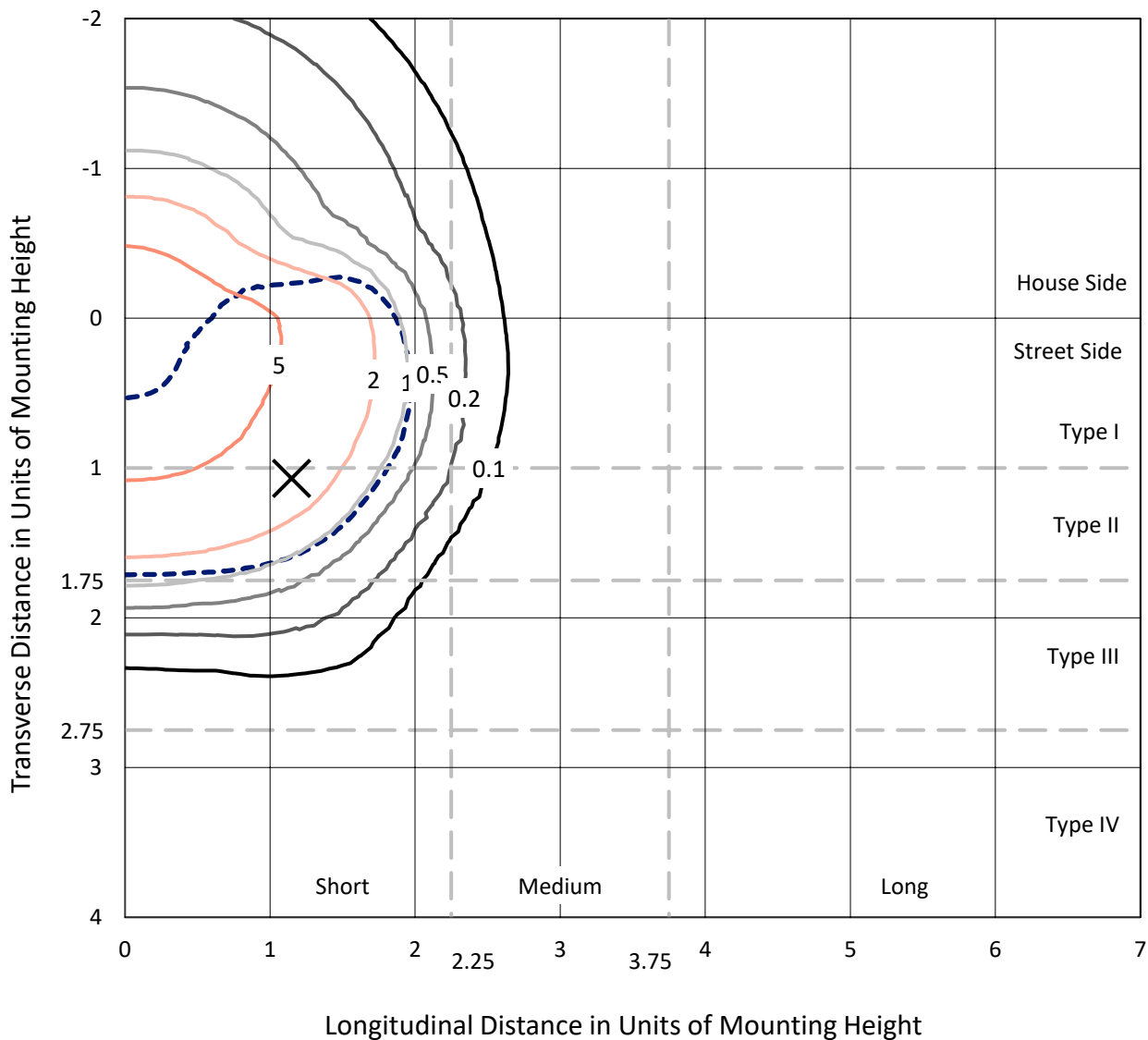
Lumens per Lamp: N/A  
Luminaire Lumens: 23902.9 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

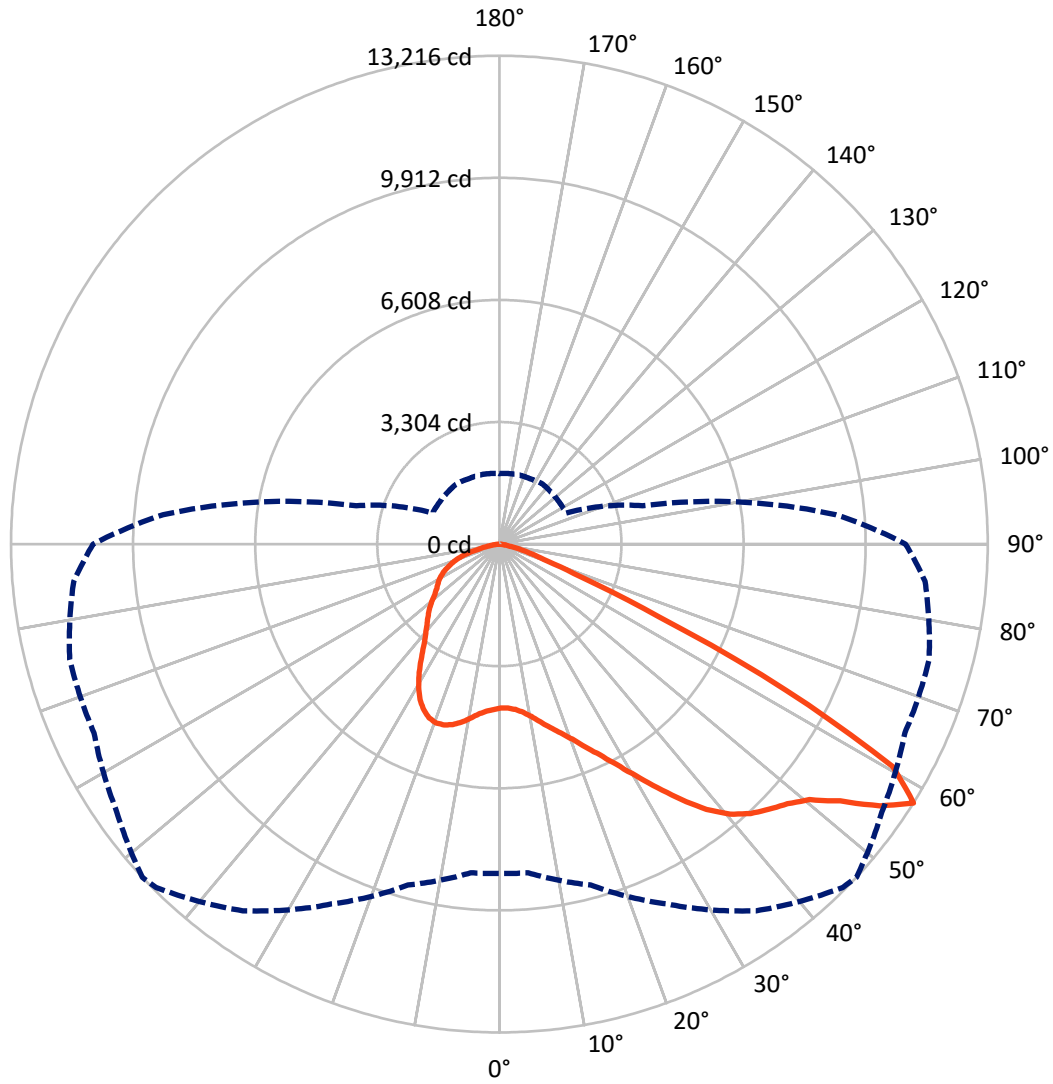
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P642182  
CATALOG NUMBER: GWS-SA6C-735-U-T3-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P642182

CATALOG NUMBER: GWS-SA6C-735-U-T3-W-GRSWH

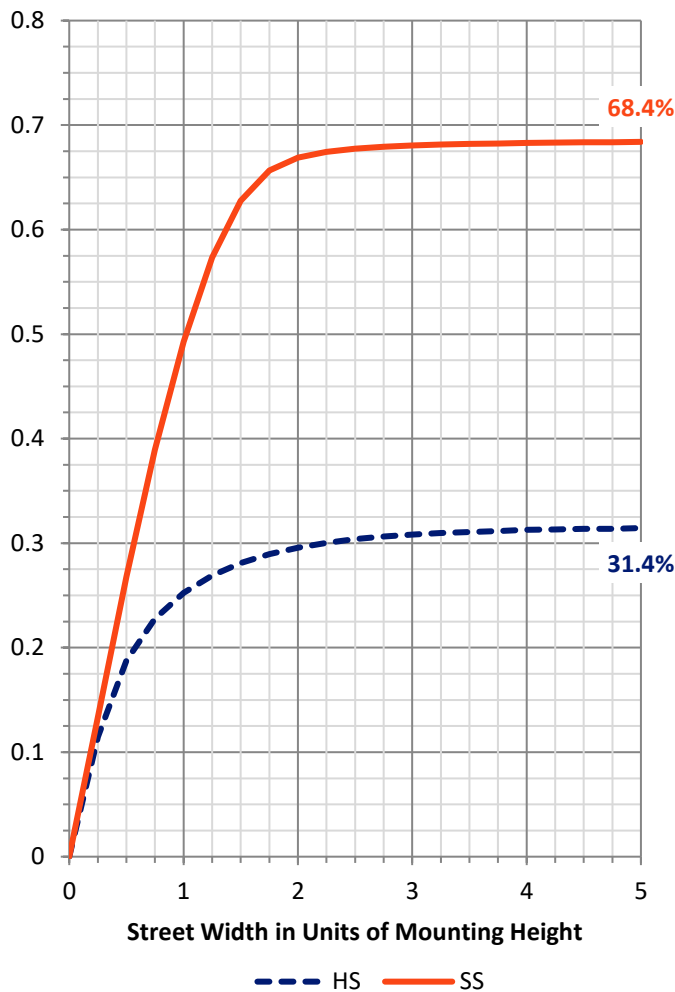
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7565.2	0.0	7565.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	16337.7	0.0	16337.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	23902.9	0.0	23902.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.2	1.8
10°-20°	1438.0	6.0
20°-30°	2589.3	10.8
30°-40°	3910.9	16.4
40°-50°	5266.5	22.0
50°-60°	6328.4	26.5
60°-70°	3082.0	12.9
70°-80°	759.3	3.2
80°-90°	91.3	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°	23902.9	100.0
0°-180°	23902.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642182

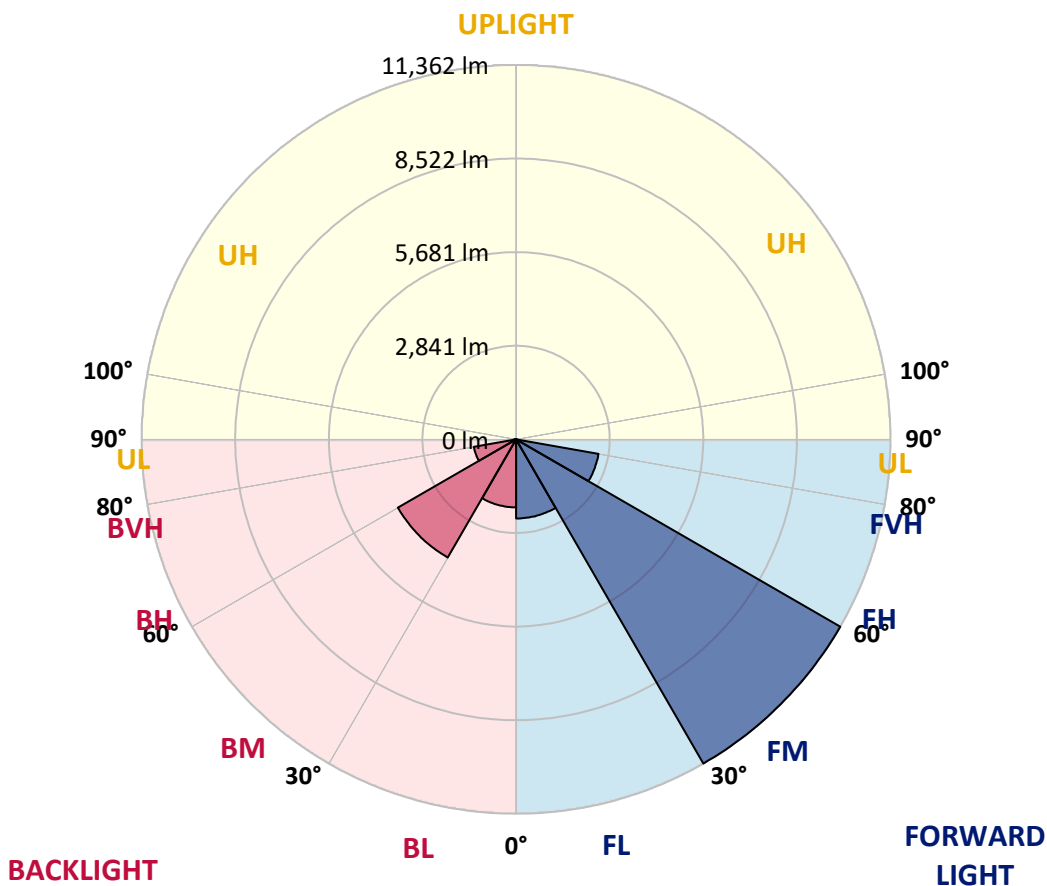
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2400.9	10.0			
FM (30°-60°)	11362.3	47.5			
FH (60°-80°)	2540.2	10.6			G2/5000
FVH (80°-90°)	34.3	0.1			G1/100
BL (0°-30°)	2063.7	8.6	B3/2500		
BM (30°-60°)	4143.4	17.3	B3/5000		
BH (60°-80°)	1301.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	57.0	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





REPORT NUMBER: P642182

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8
2.5°	4424.8	4422.8	4422.8	4434.8	4434.8	4438.9	4444.9	4450.9	4452.9	4442.9	4420.8
5°	4473.0	4473.0	4473.0	4483.0	4483.0	4487.0	4495.1	4497.1	4495.1	4479.0	4456.9
7.5°	4549.3	4549.3	4551.3	4563.3	4573.4	4579.4	4593.4	4591.4	4585.4	4559.3	4531.2
10°	4673.7	4679.8	4685.8	4699.8	4719.9	4734.0	4744.0	4744.0	4736.0	4695.8	4659.7
12.5°	4850.4	4858.4	4864.5	4876.5	4892.6	4916.7	4938.7	4938.7	4928.7	4878.5	4824.3
15°	5057.2	5065.2	5063.2	5067.2	5097.3	5131.5	5149.5	5161.6	5165.6	5095.3	5011.0
17.5°	5294.1	5302.1	5294.1	5282.1	5286.1	5340.3	5372.4	5416.6	5442.7	5348.3	5213.8
20°	5508.9	5500.9	5500.9	5508.9	5521.0	5587.2	5635.4	5707.7	5739.8	5625.4	5416.6
22.5°	5735.8	5753.8	5745.8	5745.8	5794.0	5904.4	5962.6	6057.0	6091.1	5942.6	5661.5
25°	6028.9	6044.9	6040.9	6044.9	6101.2	6257.8	6316.0	6490.6	6524.8	6312.0	5932.5
27.5°	6350.1	6376.2	6388.3	6384.2	6474.6	6679.4	6751.6	6994.6	7056.8	6725.5	6221.6
30°	6767.7	6795.8	6805.8	6801.8	6908.2	7187.3	7269.6	7546.6	7635.0	7215.4	6589.0
32.5°	7251.5	7279.6	7309.7	7321.8	7458.3	7743.4	7861.8	8148.9	8275.4	7781.5	7032.7
35°	7731.3	7755.4	7813.7	7908.0	8094.7	8385.8	8490.2	8773.3	8895.8	8369.8	7568.7
37.5°	8261.4	8277.4	8327.6	8458.1	8727.1	9004.2	9108.6	9379.6	9393.7	8937.9	8175.0
40°	8841.6	8841.6	8831.5	8960.0	9241.1	9520.1	9610.5	9767.1	9684.8	9375.6	8765.3
42.5°	9333.4	9325.4	9333.4	9453.9	9662.7	9889.5	9967.8	9937.7	9833.3	9710.9	9299.3
45°	9777.1	9783.1	9855.4	9947.8	10056.2	10190.7	10236.9	10066.2	9971.9	9979.9	9726.9
47.5°	10078.3	10084.3	10252.9	10407.5	10473.8	10515.9	10495.8	10258.9	10210.8	10301.1	10056.2
50°	10118.4	10150.5	10441.6	10758.8	10923.5	10929.5	10873.3	10584.2	10570.1	10672.5	10232.8
52.5°	10126.4	10158.6	10521.9	11094.1	11521.7	11612.1	11547.8	11246.7	11100.1	10997.7	10449.7
55°	10096.3	10132.5	10534.0	11319.0	12138.1	12499.4	12505.5	12079.9	11612.1	11543.8	11068.0
57.5°	8913.8	8927.9	9550.3	10746.8	12114.0	13137.9	13216.2	12638.0	12103.9	12039.7	11563.9
60°	6209.6	6265.8	6942.4	8522.4	10176.6	11981.5	12234.4	12065.8	11708.4	11240.7	9921.7
62.5°	3109.8	3158.0	3836.6	5330.2	7018.6	8444.1	8715.1	8893.8	8978.1	8476.2	6755.6
65°	1339.1	1375.2	1796.8	2784.6	3973.1	4661.7	4756.1	4970.9	5496.9	4904.6	3639.8
67.5°	895.4	919.5	1134.3	1698.4	2340.9	2385.1	2371.0	2417.2	2531.6	2089.9	1644.2
70°	686.6	706.7	851.2	1244.7	1682.4	1439.5	1363.2	1236.7	1343.1	1369.2	1333.1
72.5°	497.9	514.0	622.4	849.2	1054.0	919.5	907.4	971.7	1116.2	1156.4	1134.3
75°	321.2	329.2	395.5	465.8	544.1	590.2	614.3	730.8	877.3	907.4	881.3
77.5°	214.8	220.8	259.0	299.1	309.2	311.2	319.2	371.4	471.8	528.0	522.0
80°	112.4	112.4	126.5	126.5	144.5	172.7	180.7	214.8	261.0	289.1	291.1
82.5°	44.2	46.2	54.2	60.2	72.3	88.3	94.4	112.4	136.5	156.6	174.7
85°	18.1	20.1	22.1	26.1	32.1	40.2	42.2	48.2	64.2	80.3	90.3
87.5°	0.0	0.0	2.0	2.0	4.0	6.0	6.0	8.0	10.0	18.1	24.1
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: P642182

CATALOG NUMBER: GWS-SA6C-735-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8
2.5°	4446.9	4420.8	4446.9	4454.9	4477.0	4485.0	4471.0	4469.0	4469.0	4448.9	4442.9
5°	4477.0	4452.9	4479.0	4491.0	4523.2	4543.2	4547.3	4563.3	4573.4	4565.3	4563.3
7.5°	4551.3	4521.2	4549.3	4567.3	4609.5	4641.6	4655.7	4691.8	4717.9	4713.9	4711.9
10°	4681.8	4641.6	4673.7	4703.9	4750.0	4788.2	4790.2	4810.3	4836.4	4828.3	4824.3
12.5°	4832.3	4794.2	4830.3	4860.5	4914.7	4930.7	4904.6	4896.6	4900.6	4890.6	4882.5
15°	5017.0	4962.8	4995.0	5029.1	5059.2	5041.1	4984.9	4962.8	4960.8	4946.8	4938.7
17.5°	5201.7	5133.5	5157.6	5175.6	5161.6	5105.4	5035.1	4997.0	4978.9	4950.8	4942.8
20°	5384.4	5298.1	5294.1	5280.0	5215.8	5113.4	5019.1	4942.8	4896.6	4858.4	4844.4
22.5°	5593.2	5472.8	5412.5	5348.3	5207.8	5041.1	4898.6	4790.2	4715.9	4667.7	4651.7
25°	5818.1	5647.4	5523.0	5394.5	5127.5	4886.5	4687.8	4539.2	4450.9	4398.7	4380.6
27.5°	6040.9	5806.0	5619.3	5400.5	4966.9	4663.7	4396.7	4195.9	4107.6	4065.4	4051.4
30°	6342.1	6016.8	5733.8	5322.2	4756.1	4354.5	4021.3	3818.5	3760.3	3730.2	3718.1
32.5°	6689.4	6283.9	5886.3	5157.6	4487.0	3993.2	3641.8	3501.3	3461.1	3402.9	3400.9
35°	7147.1	6665.3	6030.9	4914.7	4147.7	3605.7	3350.7	3250.3	3178.1	3085.7	3077.7
37.5°	7681.2	7141.1	6109.2	4605.5	3752.2	3286.5	3133.9	3021.5	2905.0	2782.6	2766.5
40°	8233.3	7697.2	6115.2	4240.1	3364.8	3075.7	2947.2	2800.6	2656.1	2519.6	2501.5
42.5°	8813.5	8215.2	6008.8	3818.5	3047.6	2893.0	2762.5	2577.8	2415.2	2322.8	2312.8
45°	9331.4	8632.8	5767.9	3374.8	2812.7	2740.4	2573.8	2375.0	2288.7	2222.4	2208.4
47.5°	9739.0	8909.8	5442.7	2977.3	2622.0	2583.8	2367.0	2264.6	2198.3	2138.1	2124.1
50°	9939.7	8972.1	5019.1	2654.1	2445.3	2399.1	2250.5	2172.2	2128.1	2079.9	2067.8
52.5°	10188.7	9042.3	4653.7	2383.0	2272.6	2210.4	2154.2	2091.9	2059.8	2029.7	2019.7
55°	10760.8	9307.3	4460.9	2166.2	2108.0	2079.9	2071.9	2019.7	2009.6	1989.6	1971.5
57.5°	10993.7	9136.7	4005.2	1989.6	1977.5	1981.5	2001.6	1953.4	1943.4	1919.3	1907.2
60°	8841.6	6906.2	2712.3	1837.0	1869.1	1895.2	1915.3	1867.1	1853.0	1849.0	1833.0
62.5°	5665.5	4248.1	1893.2	1694.4	1742.6	1774.7	1786.8	1740.6	1730.6	1762.7	1764.7
65°	2949.2	2314.8	1535.8	1541.9	1582.0	1630.2	1654.3	1638.2	1634.2	1668.3	1670.3
67.5°	1505.7	1415.4	1339.1	1361.2	1393.3	1455.5	1511.7	1582.0	1606.1	1610.1	1612.1
70°	1282.9	1242.7	1204.6	1218.6	1252.8	1286.9	1341.1	1375.2	1335.1	1325.0	1321.0
72.5°	1092.1	1062.0	1044.0	1060.0	1078.1	1072.1	1056.0	1072.1	1078.1	1080.1	1082.1
75°	849.2	827.1	813.1	815.1	815.1	793.0	762.9	744.8	724.8	708.7	708.7
77.5°	520.0	524.0	538.0	536.0	534.0	526.0	495.9	479.8	431.6	417.6	417.6
80°	297.1	303.2	317.2	321.2	321.2	311.2	281.1	263.0	240.9	230.9	228.9
82.5°	180.7	188.7	196.7	200.8	202.8	190.7	164.6	150.6	138.5	128.5	128.5
85°	94.4	98.4	106.4	108.4	102.4	90.3	76.3	70.3	58.2	56.2	56.2
87.5°	26.1	28.1	32.1	26.1	24.1	18.1	10.0	8.0	4.0	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)