

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: P642202

Luminaire Tested: GWS-SA6C-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642202  
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-SA6C-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

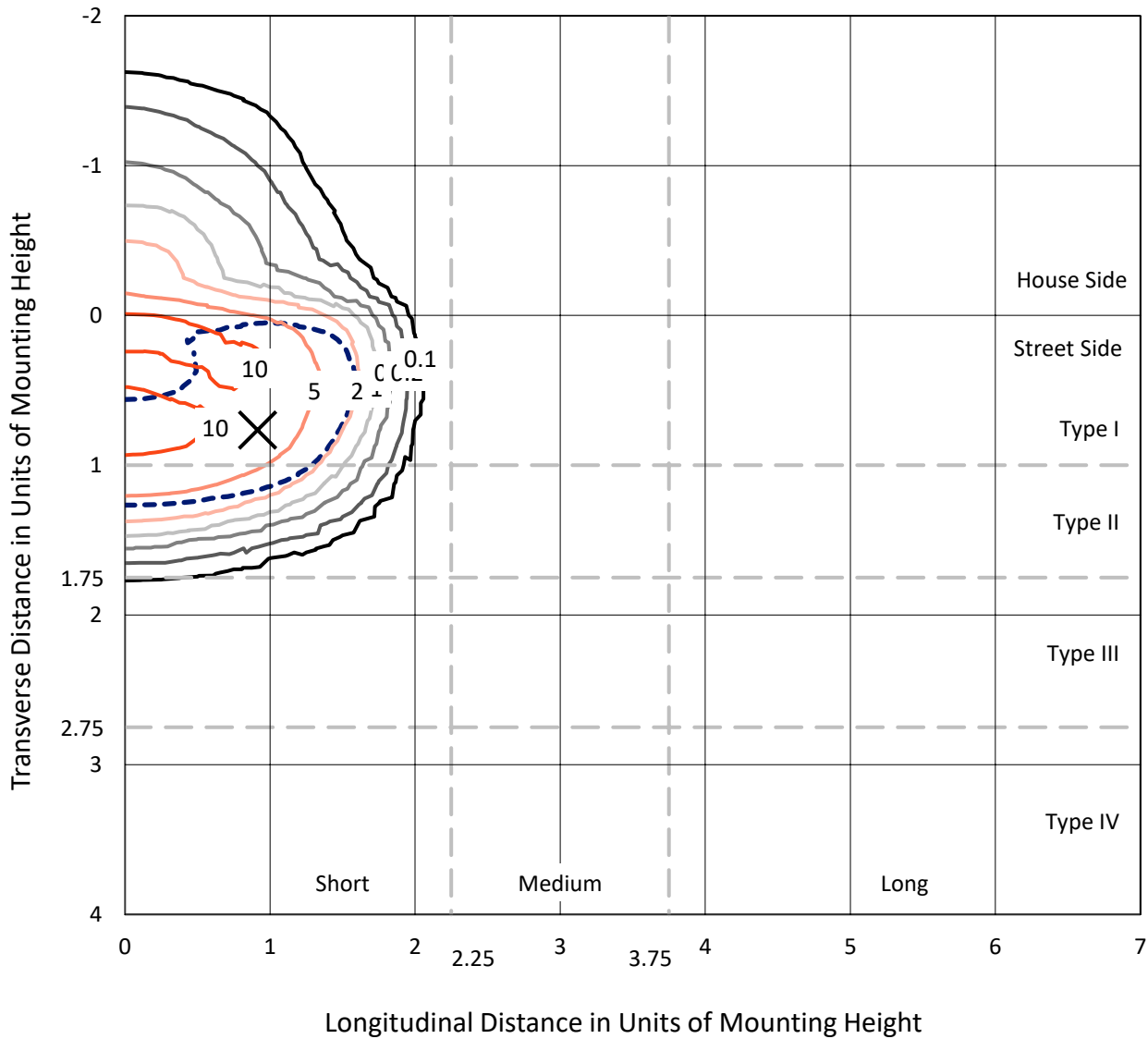
Lumens per Lamp: N/A  
Luminaire Lumens: 21385.3 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

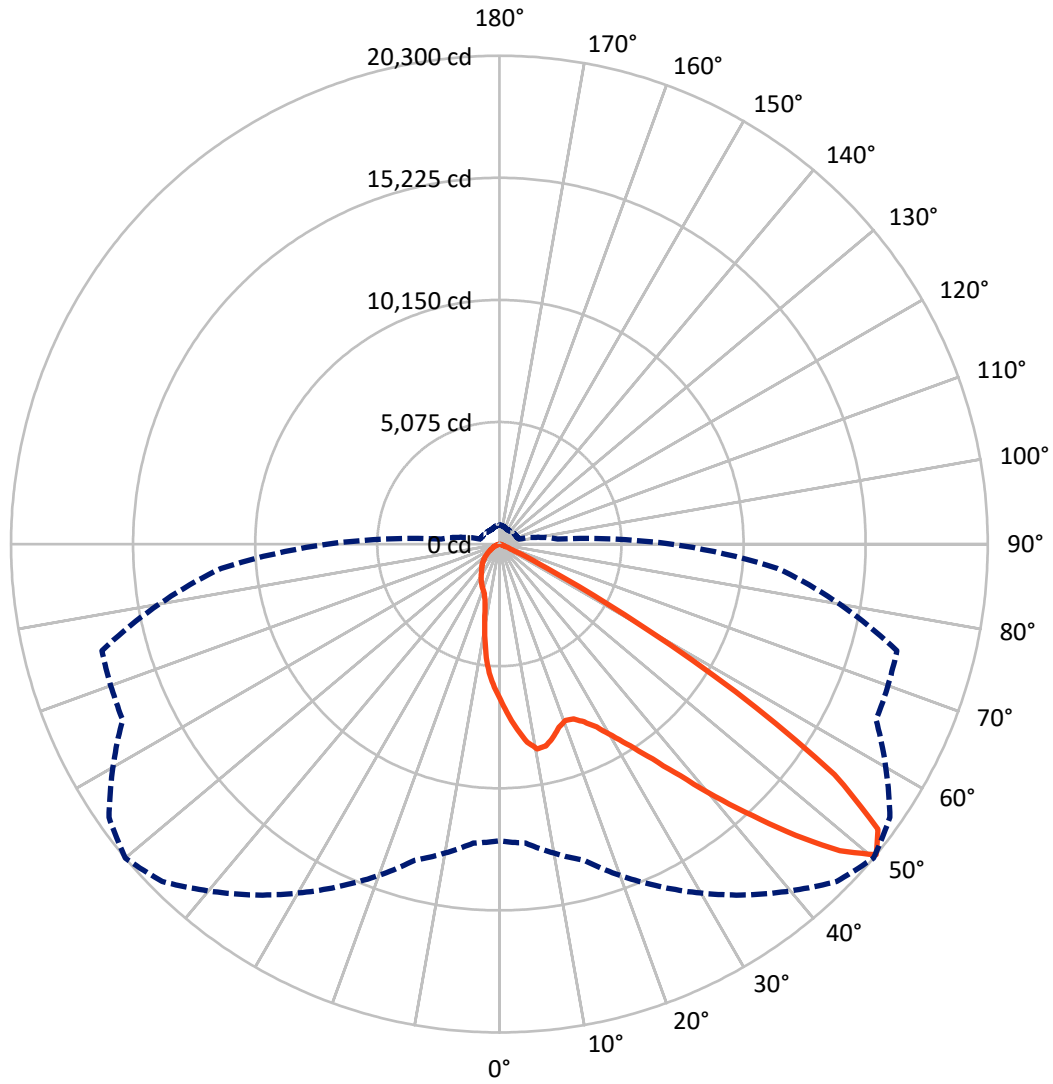
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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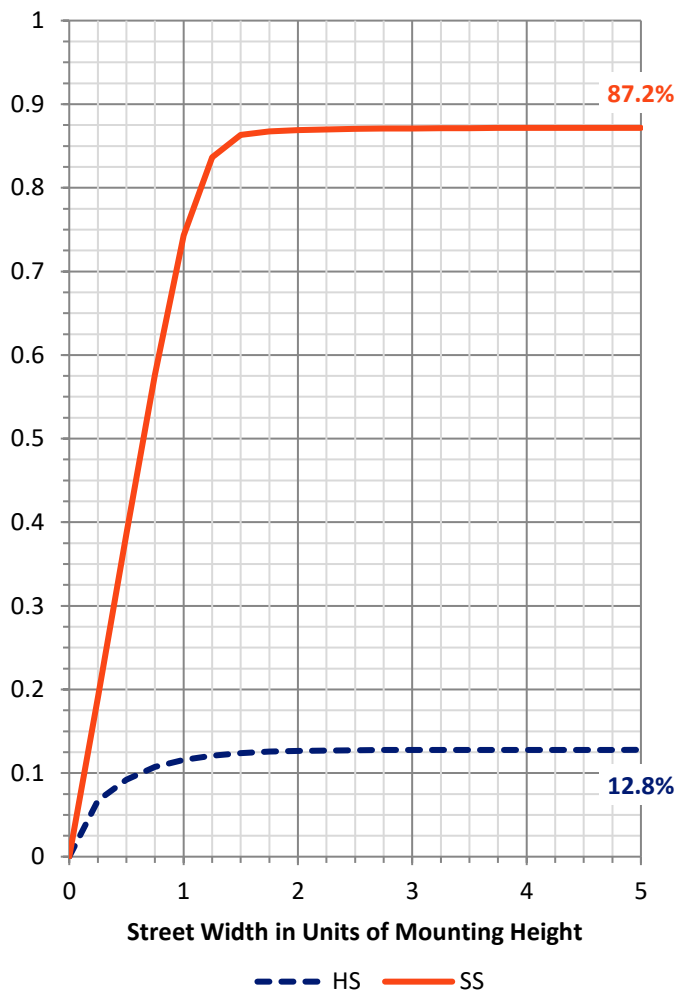
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2747.7	0.0	2747.7
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	18637.6	0.0	18637.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	21385.3	0.0	21385.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.0	2.8
10°-20°	1550.7	7.3
20°-30°	2559.2	12.0
30°-40°	4223.1	19.7
40°-50°	6682.0	31.2
50°-60°	5059.0	23.7
60°-70°	633.2	3.0
70°-80°	71.6	0.3
80°-90°	5.5	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°	21385.3	100.0
0°-180°	21385.3	100.0

**Coefficient of Utilization**



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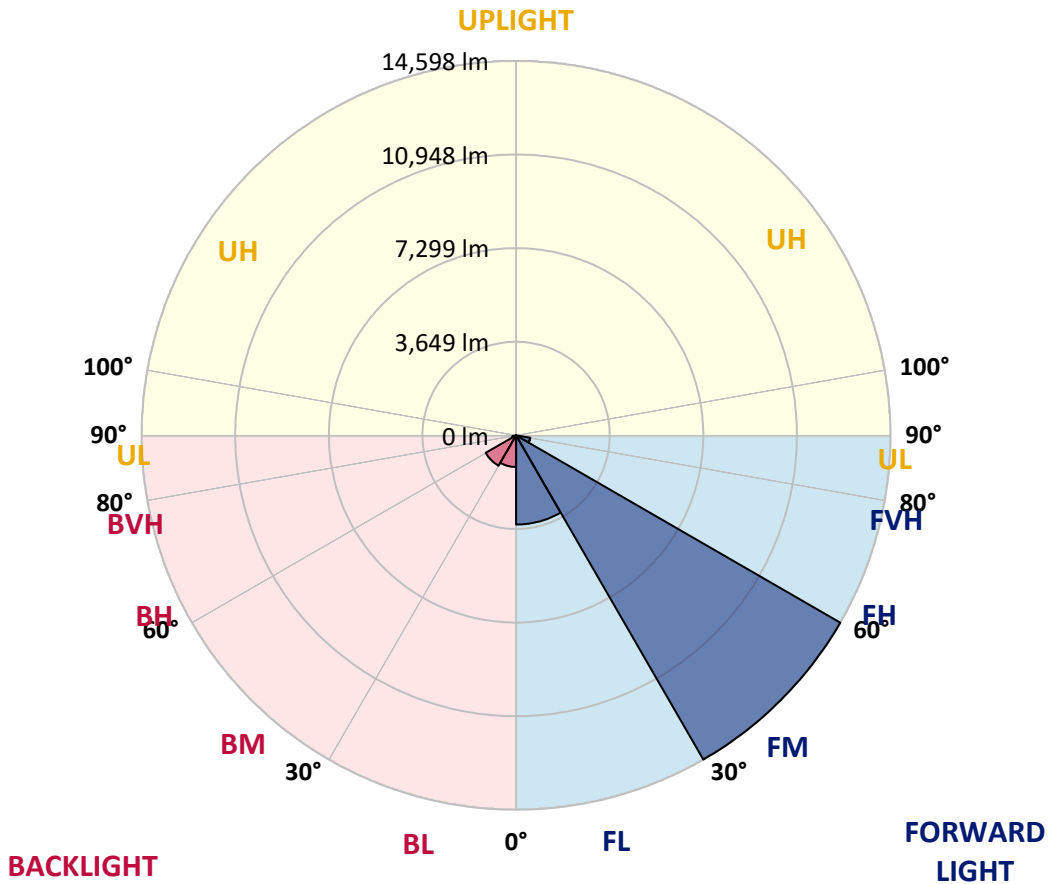
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3477.6	16.3			
FM (30°-60°)	14597.7	68.3			
FH (60°-80°)	559.8	2.6			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1233.3	5.8	B3/2500		
BM (30°-60°)	1366.5	6.4	B2/2500		
BH (60°-80°)	145.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.9	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°	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9
2.5°	7382.6	7441.7	7425.4	7348.0	7264.6	7205.6	7114.0	7085.5	6877.8	6733.3	6580.7
5°	8274.2	8292.5	8272.1	8178.5	8032.0	7891.5	7740.9	7653.4	7305.3	6991.8	6672.3
7.5°	8487.9	8465.5	8504.2	8551.0	8530.6	8469.6	8310.8	8215.2	7799.9	7289.0	6804.6
10°	7820.3	7769.4	7913.9	8156.1	8410.6	8697.6	8656.8	8665.0	8282.3	7663.5	6977.6
12.5°	6934.8	6914.5	7022.4	7303.3	7802.0	8453.3	8610.0	8872.6	8724.0	8068.6	7175.0
15°	6546.1	6556.2	6621.4	6798.5	7156.7	7966.8	8343.4	8817.6	9118.9	8461.4	7392.8
17.5°	6605.1	6641.7	6639.7	6698.7	6916.5	7565.8	8005.5	8644.6	9424.2	8913.3	7643.2
20°	7006.1	7042.7	6987.8	6943.0	7016.3	7464.1	7828.4	8469.6	9629.8	9369.3	7907.8
22.5°	7606.5	7649.3	7519.0	7390.8	7344.0	7631.0	7895.6	8398.3	9786.5	9786.5	8143.9
25°	8333.2	8392.2	8190.7	7962.8	7832.5	7983.1	8182.6	8559.1	9947.3	10161.1	8304.7
27.5°	9145.4	9147.4	8974.4	8717.9	8473.7	8492.0	8612.1	8921.5	10124.4	10564.1	8430.9
30°	10059.3	10065.4	9835.4	9528.0	9220.7	9137.2	9239.0	9473.1	10492.8	11070.9	8606.0
32.5°	11239.9	11268.4	10938.6	10486.7	10087.8	9931.1	9990.1	10236.4	11079.1	11706.0	8868.5
35°	12835.7	12866.2	12379.7	11783.3	11148.3	10912.1	10971.2	11219.5	11927.8	12607.7	9287.8
37.5°	14411.1	14451.8	13959.2	13403.6	12532.4	12141.6	12202.6	12438.7	13202.0	13853.4	9959.5
40°	15500.1	15555.0	15402.4	15027.9	14219.8	13706.8	13780.1	13865.6	14604.5	15343.4	10830.7
42.5°	16074.1	16151.4	16216.6	16407.9	15982.5	15553.0	15428.8	15435.0	16031.3	16861.8	11736.5
45°	16108.7	16184.0	16517.8	17256.7	17580.3	17490.8	17264.8	17112.2	17120.3	17873.4	12302.4
47.5°	14989.2	15129.6	15754.5	17201.7	18419.0	19161.9	19047.9	18685.6	17578.3	17940.6	12241.3
50°	12337.0	12475.4	13611.2	15693.5	17808.3	19829.5	20299.7	19813.2	17279.1	17104.0	11612.3
52.5°	8960.1	8974.4	9711.2	12143.6	15333.2	18598.1	19705.4	19658.6	16823.1	16090.4	10753.4
55°	4256.2	4205.3	5033.7	6853.4	10604.8	15042.1	16908.6	17437.9	16175.9	15357.6	10087.8
57.5°	1239.6	1264.0	1632.4	2674.6	5304.4	9613.5	11579.8	12564.9	13277.4	12626.0	7824.3
60°	555.7	557.7	620.8	814.2	1766.8	4471.9	5986.3	7205.6	7938.3	7356.2	3881.6
62.5°	403.0	405.1	429.5	460.0	600.5	1514.4	2245.1	2992.1	3047.1	1994.8	983.1
65°	335.9	335.9	339.9	339.9	360.3	541.4	681.9	879.3	740.9	549.6	384.7
67.5°	270.7	272.8	276.8	276.8	270.7	270.7	293.1	321.6	344.0	425.4	354.2
70°	211.7	209.7	209.7	211.7	205.6	175.1	189.3	215.8	236.1	331.8	307.4
72.5°	164.9	166.9	164.9	156.7	142.5	103.8	112.0	140.4	150.6	207.6	207.6
75°	124.2	126.2	118.1	89.6	59.0	32.6	42.7	69.2	87.5	101.8	75.3
77.5°	16.3	16.3	12.2	12.2	10.2	12.2	12.2	16.3	24.4	24.4	18.3
80°	2.0	2.0	2.0	4.1	6.1	8.1	8.1	8.1	8.1	10.2	10.2
82.5°	2.0	2.0	2.0	2.0	6.1	6.1	8.1	8.1	8.1	8.1	8.1
85°	0.0	0.0	0.0	2.0	4.1	6.1	6.1	8.1	8.1	8.1	8.1
87.5°	0.0	0.0	0.0	2.0	4.1	6.1	6.1	6.1	8.1	8.1	8.1
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°	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9	6478.9
2.5°	6489.1	6371.0	6228.5	6130.8	5992.4	5900.8	5770.6	5683.0	5607.7	5548.7	5581.3
5°	6491.1	6303.8	6012.8	5764.4	5493.7	5245.4	4978.8	4769.1	4579.8	4494.3	4541.1
7.5°	6531.8	6263.1	5817.4	5375.7	4856.6	4343.7	3863.3	3472.5	3279.1	3187.5	3216.0
10°	6611.2	6244.8	5599.6	4866.8	4024.1	3323.9	2857.8	2593.2	2485.3	2428.3	2438.5
12.5°	6684.5	6232.6	5316.6	4197.1	3175.3	2578.9	2336.7	2300.1	2322.5	2324.5	2322.5
15°	6784.2	6210.2	4966.5	3509.1	2540.3	2228.8	2234.9	2287.9	2340.8	2357.1	2353.0
17.5°	6890.1	6175.6	4514.7	2849.7	2155.6	2127.1	2198.3	2269.5	2322.5	2330.6	2332.6
20°	7000.0	6104.4	3999.7	2326.5	1976.4	2049.7	2129.1	2182.0	2220.7	2232.9	2237.0
22.5°	7050.9	5953.7	3405.3	1952.0	1856.3	1954.0	2013.1	2082.3	2094.5	2049.7	2057.9
25°	7024.4	5699.3	2825.2	1699.6	1736.3	1834.0	1921.5	1886.9	1836.0	1803.4	1813.6
27.5°	6940.9	5361.4	2257.3	1514.4	1608.0	1732.2	1742.4	1703.7	1695.5	1669.1	1677.2
30°	6851.4	4972.6	1815.6	1365.8	1477.8	1608.0	1577.5	1591.7	1593.8	1563.2	1573.4
32.5°	6796.4	4565.6	1445.2	1266.1	1394.3	1418.7	1479.8	1508.3	1510.3	1439.1	1451.3
35°	6814.7	4164.6	1223.3	1184.6	1316.9	1310.8	1396.3	1412.6	1294.6	1196.9	1207.0
37.5°	6963.3	3794.1	1097.1	1121.5	1182.6	1229.4	1294.6	1186.7	1160.2	1115.4	1121.5
40°	7240.2	3478.6	1021.8	1082.9	1091.0	1166.3	1066.6	1080.8	1082.9	1054.4	1060.5
42.5°	7563.8	3216.0	977.0	1060.5	1040.1	1052.3	952.6	981.1	1011.6	999.4	1001.5
45°	7726.6	2959.6	938.4	983.1	989.2	873.2	850.8	881.4	920.0	926.1	928.2
47.5°	7582.1	2715.3	897.6	871.2	911.9	795.9	769.4	779.6	824.4	848.8	852.9
50°	7140.4	2434.4	836.6	771.4	749.1	714.4	690.0	692.1	742.9	785.7	793.8
52.5°	6519.6	2141.3	736.8	653.4	602.5	629.0	635.1	622.9	669.7	712.4	720.6
55°	5917.1	1774.9	584.2	531.3	484.4	541.4	557.7	541.4	555.7	584.2	586.2
57.5°	4166.6	1003.5	447.8	439.7	401.0	464.1	490.5	466.1	441.7	460.0	464.1
60°	1931.7	525.2	344.0	344.0	333.8	399.0	443.7	409.1	362.3	370.5	376.6
62.5°	604.5	331.8	252.4	238.1	272.8	339.9	376.6	342.0	287.0	287.0	295.1
65°	342.0	285.0	199.5	183.2	221.9	272.8	295.1	258.5	209.7	205.6	205.6
67.5°	317.5	270.7	177.1	148.6	156.7	175.1	183.2	158.8	144.5	142.5	144.5
70°	262.6	225.9	142.5	101.8	95.7	93.6	97.7	91.6	87.5	89.6	95.7
72.5°	162.8	136.4	89.6	61.1	52.9	50.9	50.9	50.9	48.9	48.9	48.9
75°	59.0	50.9	40.7	30.5	26.5	24.4	24.4	26.5	24.4	22.4	20.4
77.5°	18.3	16.3	16.3	16.3	14.2	12.2	10.2	10.2	8.1	6.1	6.1
80°	10.2	10.2	10.2	10.2	8.1	8.1	6.1	4.1	2.0	2.0	0.0
82.5°	10.2	10.2	10.2	8.1	8.1	8.1	6.1	4.1	2.0	0.0	0.0
85°	8.1	8.1	8.1	8.1	8.1	8.1	6.1	4.1	2.0	0.0	0.0
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	6.1	4.1	2.0	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)