

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: P642312

Luminaire Tested: GWS-SA6C-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642312  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

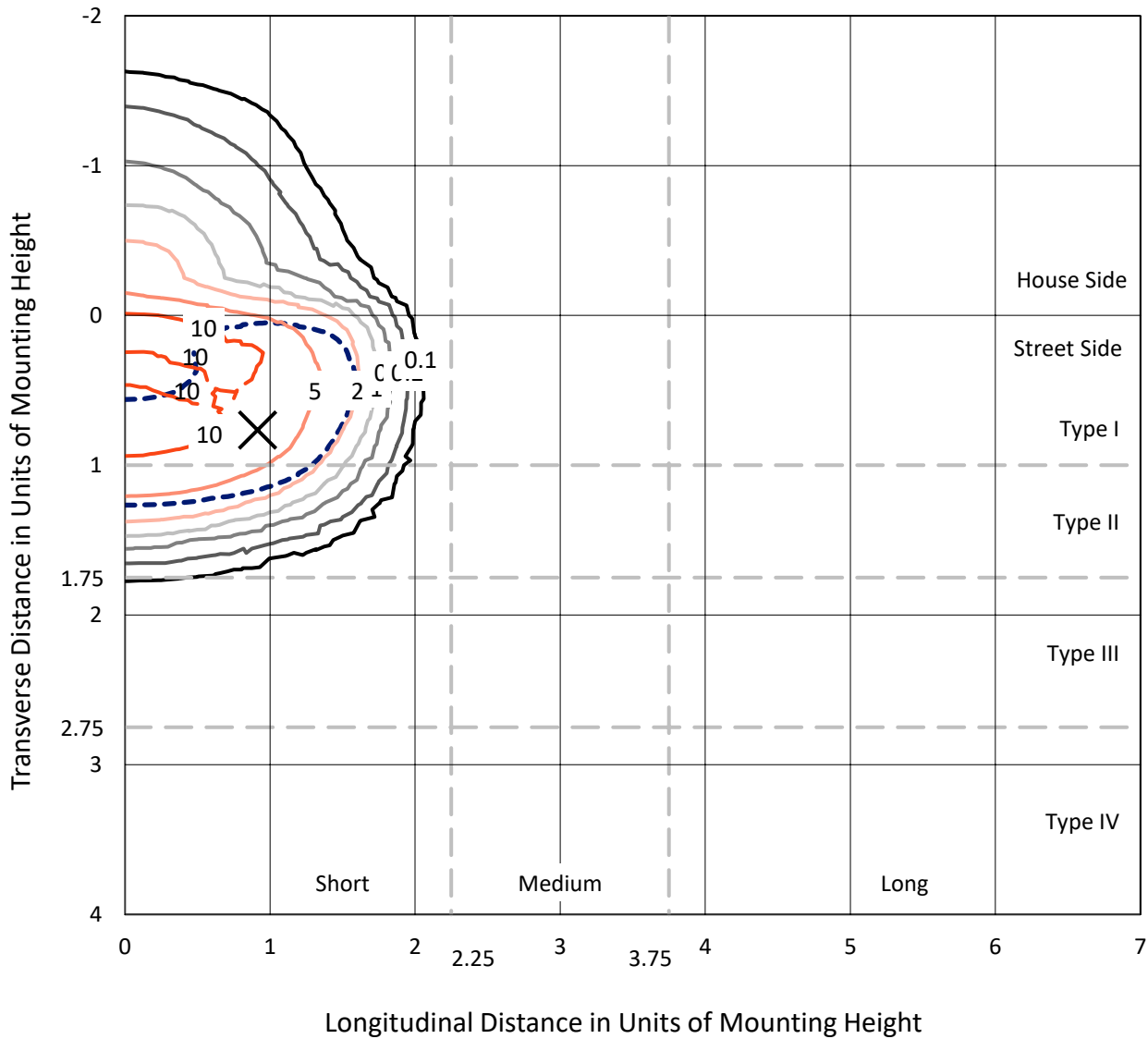
Lumens per Lamp: N/A  
Luminaire Lumens: 21575.6 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

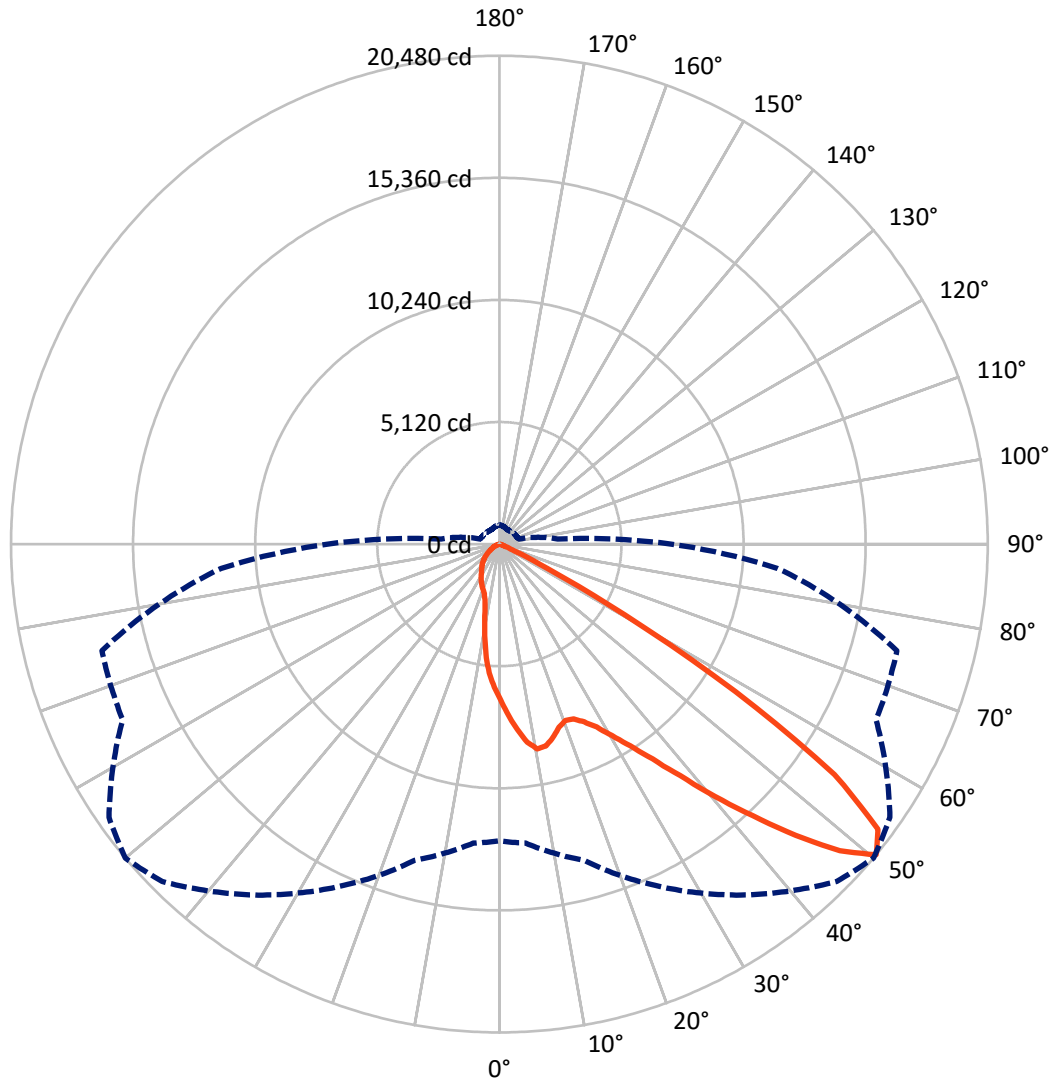
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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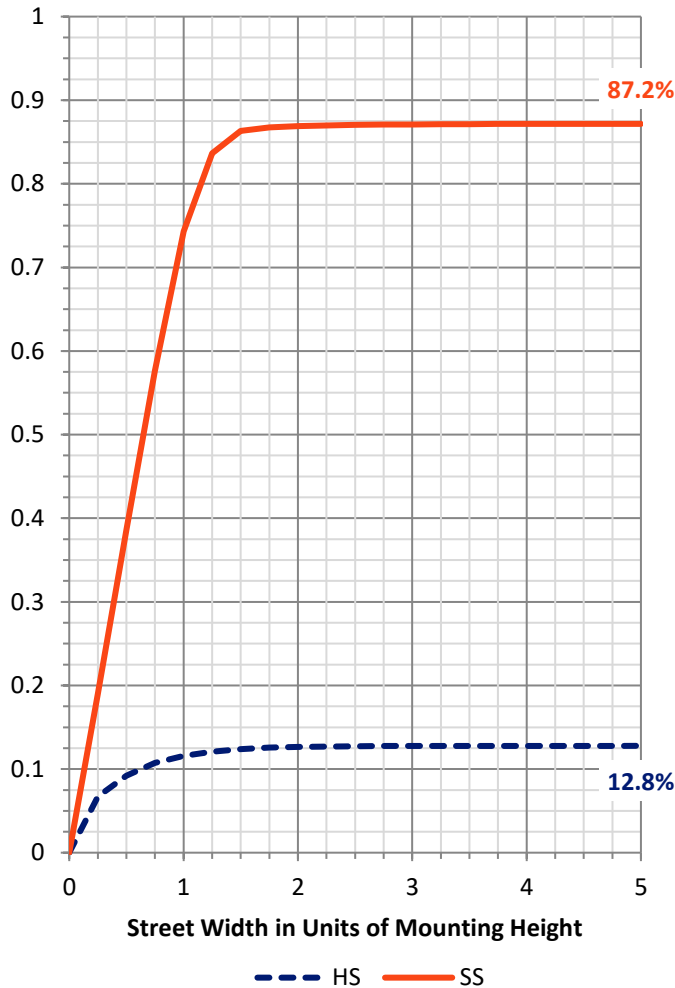
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2772.1	0.0	2772.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	18803.5	0.0	18803.5
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	21575.6	0.0	21575.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.4	2.8
10°-20°	1564.5	7.3
20°-30°	2581.9	12.0
30°-40°	4260.7	19.7
40°-50°	6741.5	31.2
50°-60°	5104.1	23.7
60°-70°	638.8	3.0
70°-80°	72.3	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°	21575.6	100.0
0°-180°	21575.6	100.0

**Coefficient of Utilization**



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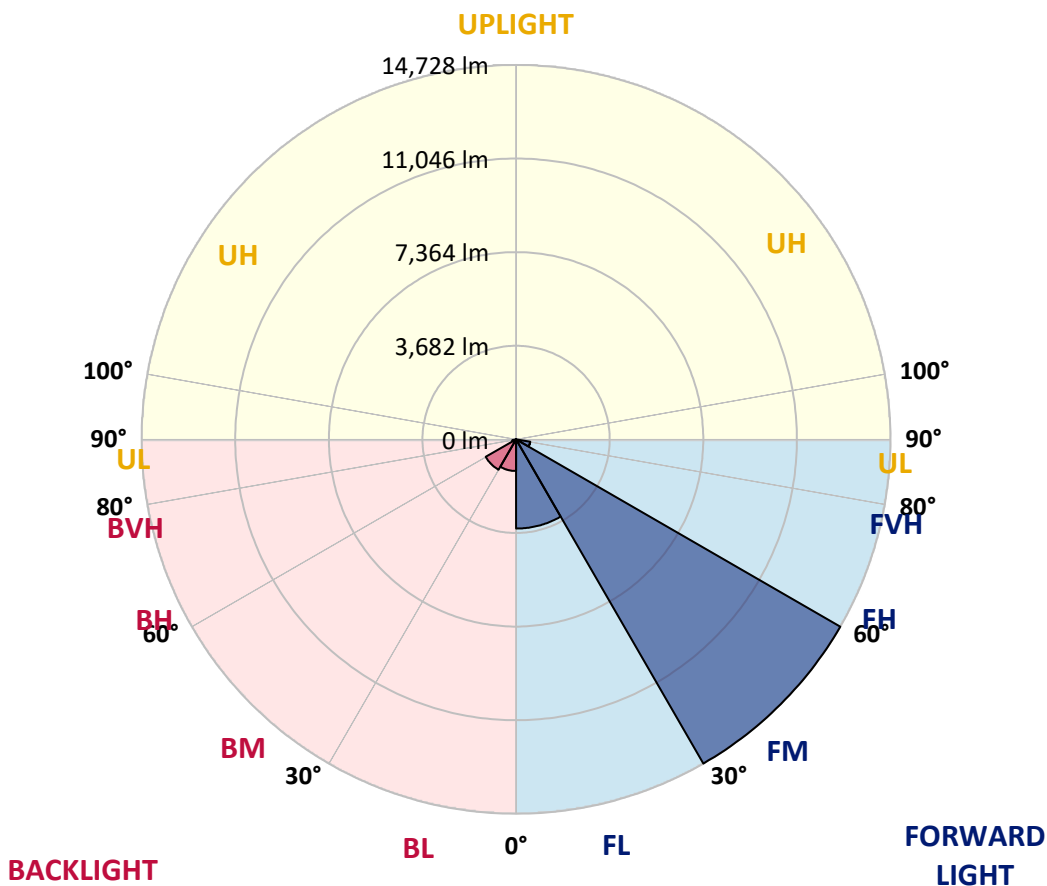
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3508.5	16.3			
FM (30°-60°)	14727.6	68.3			
FH (60°-80°)	564.8	2.6			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1244.2	5.8	B3/2500		
BM (30°-60°)	1378.6	6.4	B2/2500		
BH (60°-80°)	146.3	0.7	B1/500		G1/500
BVH (80°-90°)	3.0	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°	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5
2.5°	7448.3	7507.9	7491.5	7413.4	7329.2	7269.7	7177.3	7148.5	6939.1	6793.2	6639.2
5°	8347.8	8366.3	8345.8	8251.3	8103.4	7961.7	7809.8	7721.5	7370.3	7054.1	6731.6
7.5°	8563.4	8540.8	8579.9	8627.1	8606.6	8545.0	8384.8	8288.3	7869.3	7353.9	6865.1
10°	7889.9	7838.5	7984.3	8228.7	8485.4	8775.0	8733.9	8742.1	8356.0	7731.7	7039.7
12.5°	6996.6	6976.0	7084.9	7368.2	7871.4	8528.5	8686.6	8951.6	8801.6	8140.4	7238.9
15°	6604.3	6614.6	6680.3	6859.0	7220.4	8037.7	8417.6	8896.1	9200.0	8536.7	7458.6
17.5°	6663.9	6700.8	6698.8	6758.3	6978.1	7633.2	8076.7	8721.6	9508.1	8992.6	7711.2
20°	7068.4	7105.4	7049.9	7004.8	7078.7	7530.5	7898.1	8545.0	9715.5	9452.6	7978.2
22.5°	7674.2	7717.4	7585.9	7456.6	7409.3	7698.9	7965.8	8473.1	9873.6	9873.6	8216.4
25°	8407.4	8466.9	8263.6	8033.6	7902.2	8054.1	8255.4	8635.3	10035.9	10251.5	8378.6
27.5°	9226.7	9228.8	9054.2	8795.5	8549.1	8567.5	8688.7	9000.8	10214.5	10658.1	8505.9
30°	10148.8	10155.0	9922.9	9612.8	9302.7	9218.5	9321.2	9557.4	10586.2	11169.4	8682.5
32.5°	11339.9	11368.6	11035.9	10580.1	10177.5	10019.4	10079.0	10327.5	11177.6	11810.1	8947.5
35°	12949.9	12980.7	12489.9	11888.2	11247.5	11009.2	11068.8	11319.3	12034.0	12719.9	9370.5
37.5°	14539.4	14580.4	14083.5	13522.8	12643.9	12249.6	12311.2	12549.4	13319.5	13976.7	10048.2
40°	15638.0	15693.5	15539.4	15161.6	14346.3	13828.8	13902.7	13989.0	14734.4	15479.9	10927.1
42.5°	16217.1	16295.2	16360.9	16553.9	16124.7	15691.4	15566.1	15572.3	16174.0	17011.9	11840.9
45°	16252.0	16328.0	16664.8	17410.3	17736.8	17646.4	17418.5	17264.5	17272.7	18032.5	12411.8
47.5°	15122.6	15264.3	15894.7	17354.8	18582.9	19332.4	19217.4	18851.9	17734.7	18100.3	12350.2
50°	12446.8	12586.4	13732.3	15833.1	17966.8	20006.0	20480.4	19989.6	17432.9	17256.2	11715.7
52.5°	9039.9	9054.2	9797.6	12251.7	15469.6	18763.6	19880.7	19833.5	16972.8	16233.6	10849.1
55°	4294.0	4242.7	5078.5	6914.4	10699.2	15176.0	17059.1	17593.0	16319.8	15494.3	10177.5
57.5°	1250.6	1275.3	1647.0	2698.4	5351.6	9699.1	11682.8	12676.8	13395.5	12738.4	7894.0
60°	560.6	562.7	626.3	821.4	1782.5	4511.7	6039.6	7269.7	8009.0	7421.6	3916.2
62.5°	406.6	408.7	433.3	464.1	605.8	1527.9	2265.1	3018.8	3074.2	2012.5	991.9
65°	338.8	338.8	342.9	342.9	363.5	546.3	687.9	887.1	747.5	554.5	388.1
67.5°	273.1	275.2	279.3	279.3	273.1	273.1	295.7	324.5	347.1	429.2	357.3
70°	213.6	211.5	211.5	213.6	207.4	176.6	191.0	217.7	238.2	334.7	310.1
72.5°	166.3	168.4	166.3	158.1	143.8	104.7	112.9	141.7	152.0	209.5	209.5
75°	125.3	127.3	119.1	90.4	59.6	32.9	43.1	69.8	88.3	102.7	76.0
77.5°	16.4	16.4	12.3	12.3	10.3	12.3	12.3	16.4	24.6	24.6	18.5
80°	2.1	2.1	2.1	4.1	6.2	8.2	8.2	8.2	8.2	10.3	10.3
82.5°	2.1	2.1	2.1	2.1	6.2	6.2	8.2	8.2	8.2	8.2	8.2
85°	0.0	0.0	0.0	2.1	4.1	6.2	6.2	8.2	8.2	8.2	8.2
87.5°	0.0	0.0	0.0	2.1	4.1	6.2	6.2	6.2	8.2	8.2	8.2
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°	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5	6536.5
2.5°	6546.8	6427.7	6284.0	6185.4	6045.7	5953.3	5821.9	5733.6	5657.6	5598.1	5630.9
5°	6548.9	6359.9	6066.3	5815.7	5542.6	5292.1	5023.1	4811.5	4620.6	4534.3	4581.5
7.5°	6589.9	6318.9	5869.1	5423.5	4899.8	4382.3	3897.7	3503.4	3308.3	3215.9	3244.7
10°	6670.0	6300.4	5649.4	4910.1	4059.9	3353.5	2883.2	2616.3	2507.4	2449.9	2460.2
12.5°	6744.0	6288.1	5364.0	4234.5	3203.6	2601.9	2357.5	2320.5	2343.1	2345.2	2343.1
15°	6844.6	6265.5	5010.7	3540.4	2562.9	2248.7	2254.8	2308.2	2361.6	2378.0	2373.9
17.5°	6951.4	6230.6	4554.8	2875.0	2174.7	2146.0	2217.9	2289.7	2343.1	2351.4	2353.4
20°	7062.3	6158.7	4035.3	2347.2	1994.0	2068.0	2148.0	2201.4	2240.5	2252.8	2256.9
22.5°	7113.6	6006.7	3435.6	1969.4	1872.9	1971.4	2031.0	2100.8	2113.1	2068.0	2076.2
25°	7086.9	5750.0	2850.4	1714.7	1751.7	1850.3	1938.6	1903.7	1852.3	1819.5	1829.7
27.5°	7002.7	5409.1	2277.4	1527.9	1622.3	1747.6	1757.9	1718.8	1710.6	1683.9	1692.2
30°	6912.4	5016.9	1831.8	1378.0	1490.9	1622.3	1591.5	1605.9	1608.0	1577.2	1587.4
32.5°	6856.9	4606.2	1458.0	1277.3	1406.7	1431.3	1493.0	1521.7	1523.8	1451.9	1464.2
35°	6875.4	4201.6	1234.2	1195.2	1328.7	1322.5	1408.8	1425.2	1306.1	1207.5	1217.8
37.5°	7025.3	3827.9	1106.9	1131.5	1193.1	1240.4	1306.1	1197.2	1170.5	1125.4	1131.5
40°	7304.6	3509.6	1030.9	1092.5	1100.7	1176.7	1076.1	1090.5	1092.5	1063.8	1069.9
42.5°	7631.1	3244.7	985.7	1069.9	1049.4	1061.7	961.1	989.8	1020.6	1008.3	1010.4
45°	7795.4	2985.9	946.7	991.9	998.0	881.0	858.4	889.2	928.2	934.4	936.4
47.5°	7649.6	2739.5	905.6	878.9	920.0	803.0	776.3	786.5	831.7	856.3	860.5
50°	7204.0	2456.1	844.0	778.3	755.7	720.8	696.2	698.2	749.6	792.7	800.9
52.5°	6577.6	2160.4	743.4	659.2	607.9	634.6	640.7	628.4	675.6	718.8	727.0
55°	5969.8	1790.7	589.4	536.0	488.8	546.3	562.7	546.3	560.6	589.4	591.4
57.5°	4203.7	1012.4	451.8	443.6	404.6	468.2	494.9	470.3	445.6	464.1	468.2
60°	1948.8	529.8	347.1	347.1	336.8	402.5	447.7	412.8	365.5	373.8	379.9
62.5°	609.9	334.7	254.6	240.3	275.2	342.9	379.9	345.0	289.6	289.6	297.8
65°	345.0	287.5	201.3	184.8	223.8	275.2	297.8	260.8	211.5	207.4	207.4
67.5°	320.4	273.1	178.7	149.9	158.1	176.6	184.8	160.2	145.8	143.8	145.8
70°	264.9	227.9	143.8	102.7	96.5	94.5	98.6	92.4	88.3	90.4	96.5
72.5°	164.3	137.6	90.4	61.6	53.4	51.3	51.3	51.3	49.3	49.3	49.3
75°	59.6	51.3	41.1	30.8	26.7	24.6	24.6	26.7	24.6	22.6	20.5
77.5°	18.5	16.4	16.4	16.4	14.4	12.3	10.3	10.3	8.2	6.2	6.2
80°	10.3	10.3	10.3	10.3	8.2	8.2	6.2	4.1	2.1	2.1	0.0
82.5°	10.3	10.3	10.3	8.2	8.2	8.2	6.2	4.1	2.1	0.0	0.0
85°	8.2	8.2	8.2	8.2	8.2	8.2	6.2	4.1	2.1	0.0	0.0
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	6.2	4.1	2.1	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)