

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: P642477

Luminaire Tested: GWS-SA6D-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642477  
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-SA6D-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

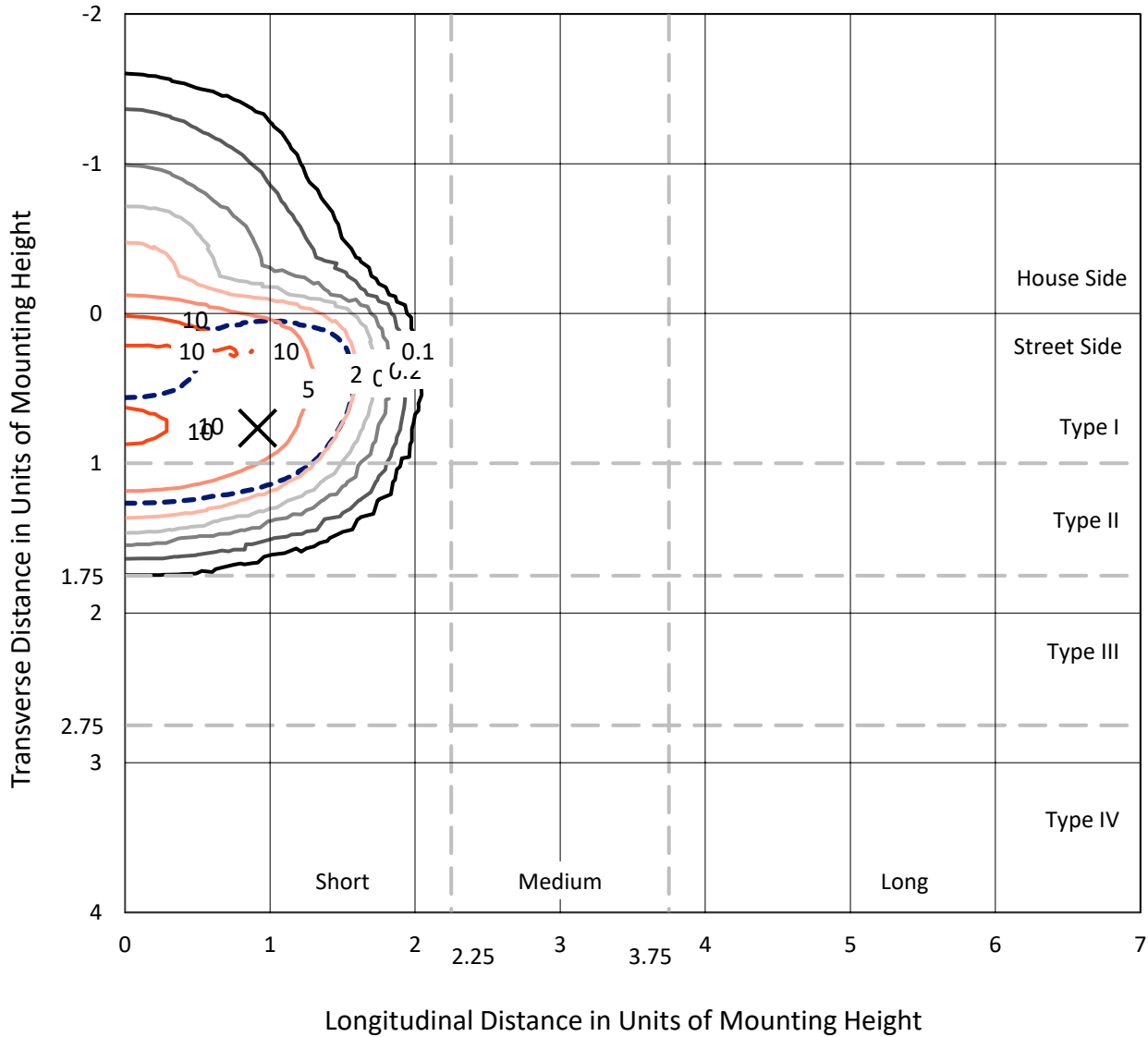
Lumens per Lamp: N/A  
Luminaire Lumens: 19872.5 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

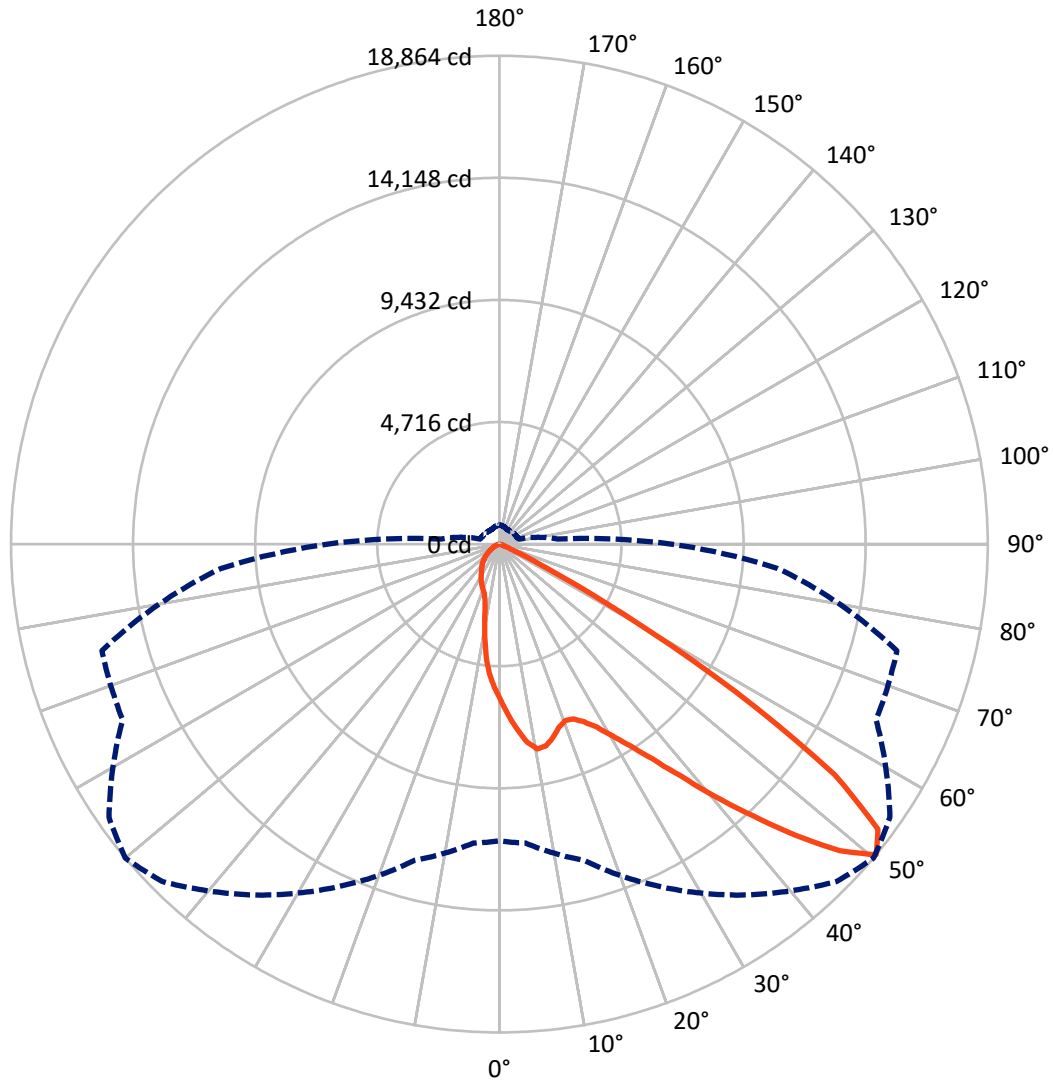
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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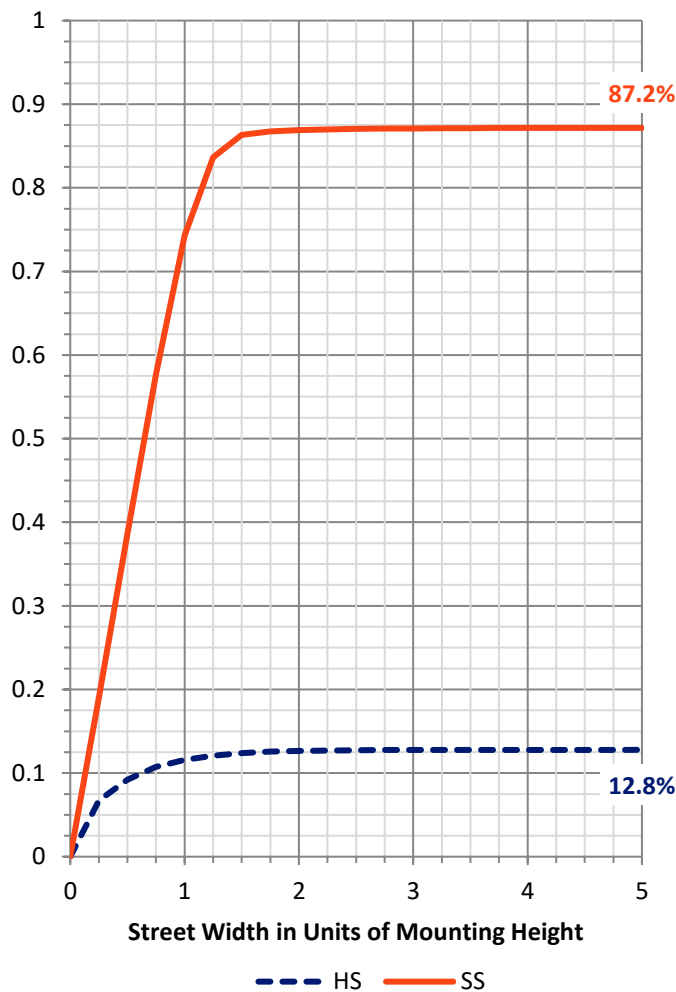
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2553.3	0.0	2553.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	17319.2	0.0	17319.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	19872.5	0.0	19872.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.5	2.8
10°-20°	1441.0	7.3
20°-30°	2378.1	12.0
30°-40°	3924.4	19.7
40°-50°	6209.3	31.2
50°-60°	4701.2	23.7
60°-70°	588.4	3.0
70°-80°	66.6	0.3
80°-90°	5.1	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°	19872.5	100.0
0°-180°	19872.5	100.0

**Coefficient of Utilization**



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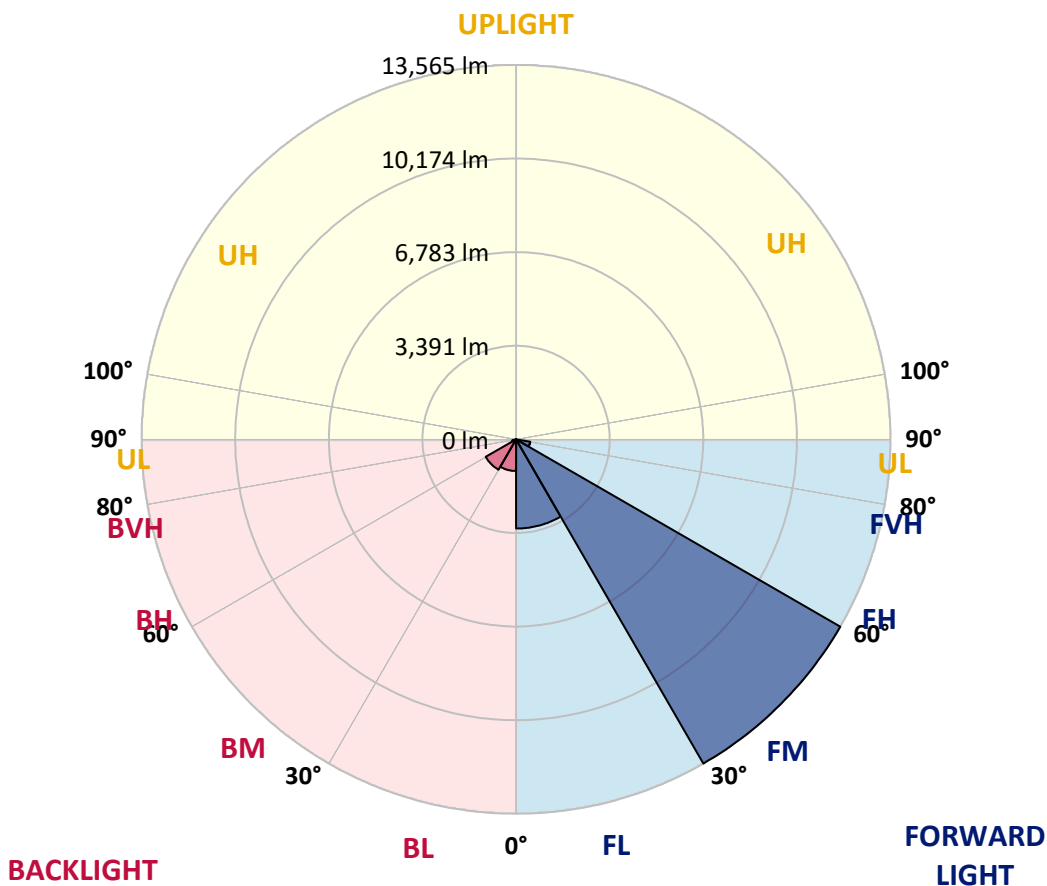
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3231.6	16.3			
FM (30°-60°)	13565.1	68.3			
FH (60°-80°)	520.2	2.6			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	1146.0	5.8	B3/2500		
BM (30°-60°)	1269.8	6.4	B2/2500		
BH (60°-80°)	134.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.7	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°	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6
2.5°	6860.4	6915.2	6900.1	6828.2	6750.7	6695.8	6610.7	6584.2	6391.3	6257.0	6115.2
5°	7688.9	7705.9	7687.0	7600.0	7463.8	7333.3	7193.3	7112.0	6788.5	6497.2	6200.3
7.5°	7887.5	7866.7	7902.6	7946.1	7927.2	7870.4	7722.9	7634.0	7248.1	6773.4	6323.2
10°	7267.1	7219.8	7354.1	7579.2	7815.6	8082.3	8044.5	8052.0	7696.4	7121.4	6484.0
12.5°	6444.3	6425.4	6525.6	6786.6	7250.0	7855.3	8001.0	8245.0	8106.9	7497.8	6667.5
15°	6083.0	6092.5	6153.0	6317.5	6650.4	7403.2	7753.2	8193.9	8473.8	7862.9	6869.9
17.5°	6137.8	6171.9	6170.0	6224.9	6427.2	7030.6	7439.2	8033.1	8757.5	8282.8	7102.5
20°	6510.5	6544.5	6493.4	6451.8	6519.9	6936.1	7274.6	7870.4	8948.6	8706.5	7348.4
22.5°	7068.5	7108.2	6987.1	6868.0	6824.5	7091.2	7337.0	7804.2	9094.2	9094.2	7567.8
25°	7743.7	7798.6	7611.3	7399.5	7278.4	7418.4	7603.7	7953.7	9243.7	9442.3	7717.2
27.5°	8498.4	8500.3	8339.5	8101.2	7874.2	7891.3	8002.8	8290.4	9408.2	9816.8	7834.5
30°	9347.7	9353.4	9139.6	8854.0	8568.4	8490.8	8585.4	8802.9	9750.6	10287.8	7997.2
32.5°	10444.7	10471.2	10164.8	9744.9	9374.2	9228.5	9283.4	9512.2	10295.3	10877.9	8241.2
35°	11927.7	11956.0	11504.0	10949.8	10359.6	10140.2	10195.1	10425.8	11084.1	11715.8	8630.8
37.5°	13391.7	13429.5	12971.8	12455.4	11645.8	11282.7	11339.4	11558.8	12268.1	12873.4	9255.0
40°	14403.6	14454.7	14312.8	13964.8	13213.9	12737.2	12805.3	12884.8	13571.4	14258.0	10064.6
42.5°	14937.0	15008.9	15069.4	15247.2	14851.9	14452.8	14337.4	14343.1	14897.3	15669.0	10906.3
45°	14969.2	15039.1	15349.4	16036.0	16336.7	16253.5	16043.5	15901.7	15909.2	16609.1	11432.1
47.5°	13928.9	14059.4	14640.0	15984.9	17116.0	17806.4	17700.5	17363.8	16334.8	16671.5	11375.4
50°	11464.3	11592.9	12648.3	14583.3	16548.5	18426.8	18863.7	18411.7	16056.8	15894.1	10790.9
52.5°	8326.3	8339.5	9024.2	11284.6	14248.5	17282.4	18311.4	18267.9	15633.1	14952.1	9992.7
55°	3955.1	3907.8	4677.6	6368.6	9854.6	13978.0	15712.5	16204.3	15031.6	14271.2	9374.2
57.5°	1151.9	1174.6	1517.0	2485.4	4929.2	8933.5	10760.6	11676.1	12338.1	11732.8	7270.8
60°	516.4	518.3	576.9	756.6	1641.8	4155.6	5562.8	6695.8	7376.8	6835.8	3607.1
62.5°	374.5	376.4	399.1	427.5	558.0	1407.3	2086.3	2780.5	2831.5	1853.6	913.6
65°	312.1	312.1	315.9	315.9	334.8	503.1	633.6	817.1	688.5	510.7	357.5
67.5°	251.6	253.5	257.2	257.2	251.6	251.6	272.4	298.9	319.7	395.3	329.1
70°	196.7	194.8	194.8	196.7	191.0	162.7	175.9	200.5	219.4	308.3	285.6
72.5°	153.2	155.1	153.2	145.6	132.4	96.5	104.0	130.5	140.0	192.9	192.9
75°	115.4	117.3	109.7	83.2	54.9	30.3	39.7	64.3	81.3	94.6	70.0
77.5°	15.1	15.1	11.3	11.3	9.5	11.3	11.3	15.1	22.7	22.7	17.0
80°	1.9	1.9	1.9	3.8	5.7	7.6	7.6	7.6	7.6	9.5	9.5
82.5°	1.9	1.9	1.9	1.9	5.7	5.7	7.6	7.6	7.6	7.6	7.6
85°	0.0	0.0	0.0	1.9	3.8	5.7	5.7	7.6	7.6	7.6	7.6
87.5°	0.0	0.0	0.0	1.9	3.8	5.7	5.7	5.7	7.6	7.6	7.6
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°	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6	6020.6
2.5°	6030.0	5920.3	5787.9	5697.1	5568.5	5483.4	5362.3	5281.0	5211.0	5156.2	5186.4
5°	6031.9	5857.9	5587.4	5356.7	5105.1	4874.3	4626.6	4431.7	4255.8	4176.4	4219.9
7.5°	6069.8	5820.1	5405.8	4995.4	4513.1	4036.4	3590.0	3226.9	3047.2	2962.1	2988.5
10°	6143.5	5803.1	5203.5	4522.5	3739.5	3088.8	2655.6	2409.7	2309.5	2256.5	2266.0
12.5°	6211.6	5791.7	4940.5	3900.2	2950.7	2396.5	2171.4	2137.4	2158.2	2160.1	2158.2
15°	6304.3	5770.9	4615.2	3260.9	2360.6	2071.2	2076.8	2126.0	2175.2	2190.3	2186.5
17.5°	6402.7	5738.7	4195.3	2648.1	2003.1	1976.6	2042.8	2109.0	2158.2	2165.7	2167.6
20°	6504.8	5672.5	3716.8	2162.0	1836.6	1904.7	1978.5	2027.7	2063.6	2075.0	2078.7
22.5°	6552.1	5532.6	3164.4	1813.9	1725.0	1815.8	1870.7	1935.0	1946.3	1904.7	1912.3
25°	6527.5	5296.1	2625.4	1579.4	1613.4	1704.2	1785.6	1753.4	1706.1	1675.9	1685.3
27.5°	6449.9	4982.2	2097.7	1407.3	1494.3	1609.6	1619.1	1583.2	1575.6	1551.0	1558.6
30°	6366.7	4620.9	1687.2	1269.2	1373.2	1494.3	1465.9	1479.1	1481.0	1452.7	1462.1
32.5°	6315.6	4242.6	1343.0	1176.5	1295.7	1318.4	1375.1	1401.6	1403.5	1337.3	1348.6
35°	6332.7	3870.0	1136.8	1100.8	1223.8	1218.1	1297.6	1312.7	1203.0	1112.2	1121.6
37.5°	6470.7	3525.7	1019.5	1042.2	1098.9	1142.5	1203.0	1102.7	1078.1	1036.5	1042.2
40°	6728.0	3232.5	949.5	1006.3	1013.8	1083.8	991.1	1004.4	1006.3	979.8	985.5
42.5°	7028.7	2988.5	907.9	985.5	966.5	977.9	885.2	911.7	940.1	928.7	930.6
45°	7180.1	2750.2	872.0	913.6	919.3	811.4	790.6	819.0	854.9	860.6	862.5
47.5°	7045.8	2523.2	834.1	809.6	847.4	739.6	715.0	724.4	766.0	788.7	792.5
50°	6635.3	2262.2	777.4	716.9	696.1	663.9	641.2	643.1	690.4	730.1	737.7
52.5°	6058.4	1989.8	684.7	607.2	559.9	584.5	590.1	578.8	622.3	662.0	669.6
55°	5498.5	1649.4	542.9	493.7	450.2	503.1	518.3	503.1	516.4	542.9	544.7
57.5°	3871.9	932.5	416.1	408.6	372.6	431.3	455.8	433.1	410.5	427.5	431.3
60°	1795.0	488.0	319.7	319.7	310.2	370.7	412.3	380.2	336.7	344.2	349.9
62.5°	561.8	308.3	234.5	221.3	253.5	315.9	349.9	317.8	266.7	266.7	274.3
65°	317.8	264.8	185.4	170.2	206.2	253.5	274.3	240.2	194.8	191.0	191.0
67.5°	295.1	251.6	164.6	138.1	145.6	162.7	170.2	147.5	134.3	132.4	134.3
70°	244.0	210.0	132.4	94.6	88.9	87.0	90.8	85.1	81.3	83.2	88.9
72.5°	151.3	126.7	83.2	56.7	49.2	47.3	47.3	47.3	45.4	45.4	45.4
75°	54.9	47.3	37.8	28.4	24.6	22.7	22.7	24.6	22.7	20.8	18.9
77.5°	17.0	15.1	15.1	15.1	13.2	11.3	9.5	9.5	7.6	5.7	5.7
80°	9.5	9.5	9.5	9.5	7.6	7.6	5.7	3.8	1.9	1.9	0.0
82.5°	9.5	9.5	9.5	7.6	7.6	7.6	5.7	3.8	1.9	0.0	0.0
85°	7.6	7.6	7.6	7.6	7.6	7.6	5.7	3.8	1.9	0.0	0.0
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	5.7	3.8	1.9	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)