

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: P639959

Luminaire Tested: GWS-SA5C-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-830-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

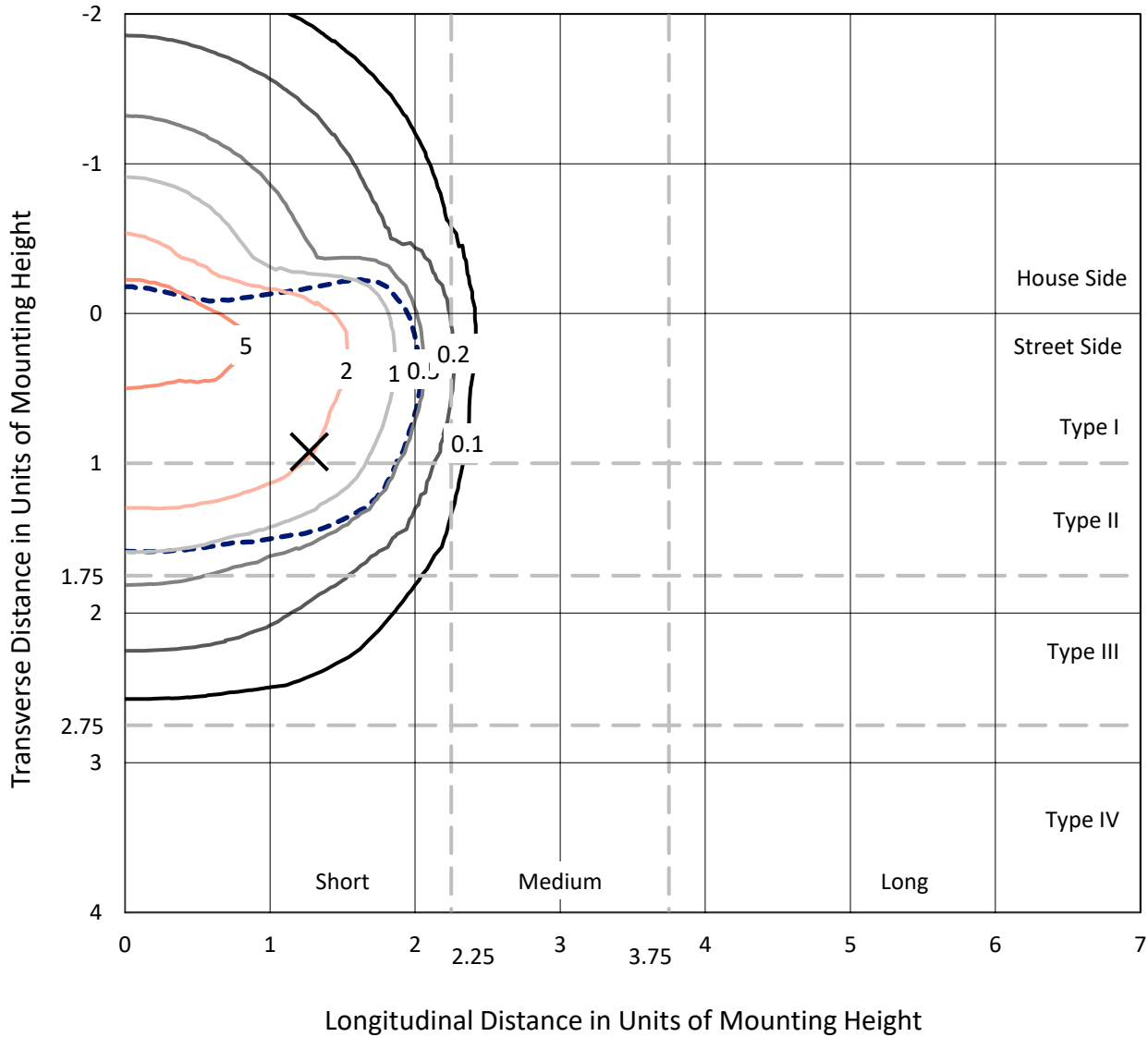
Lumens per Lamp: N/A  
Luminaire Lumens: 15841.5 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

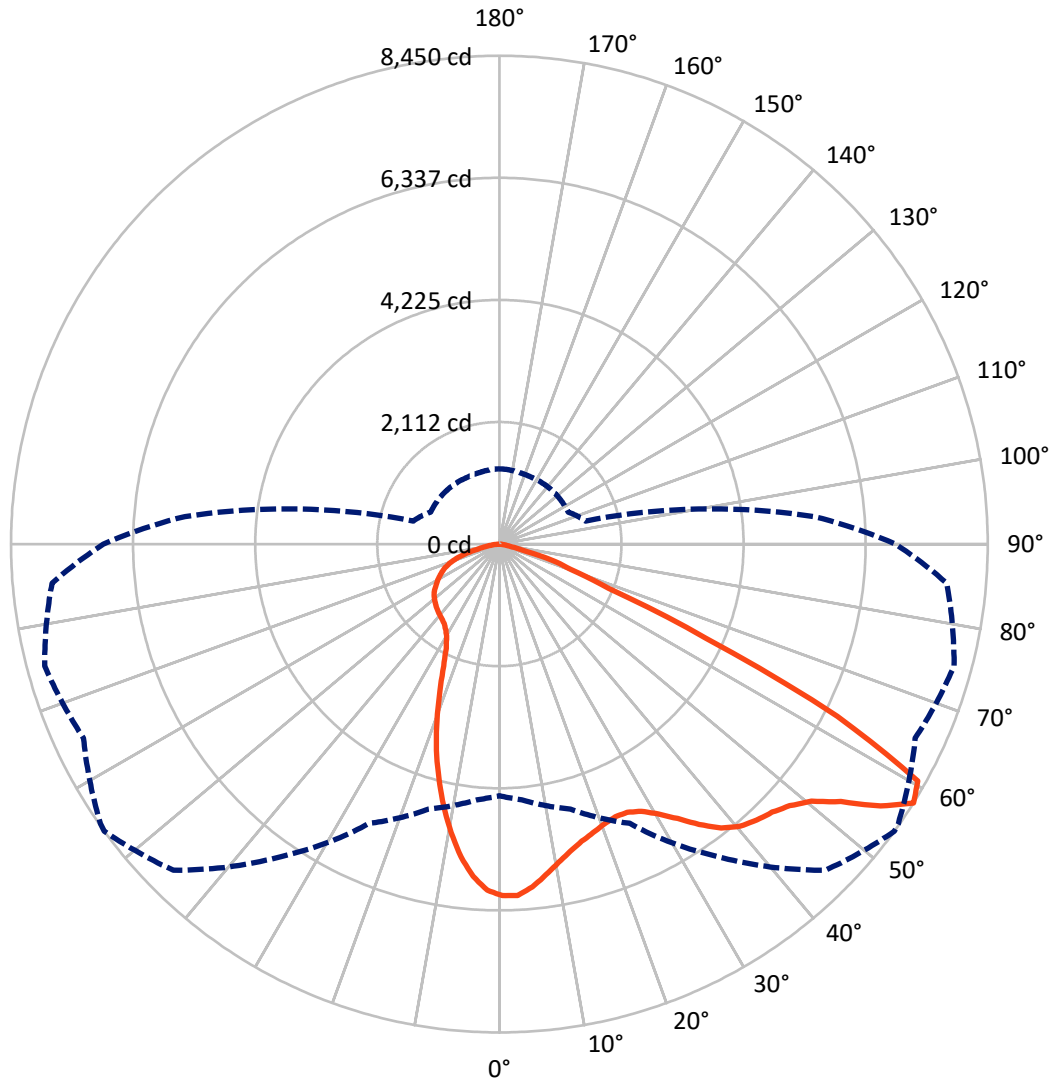
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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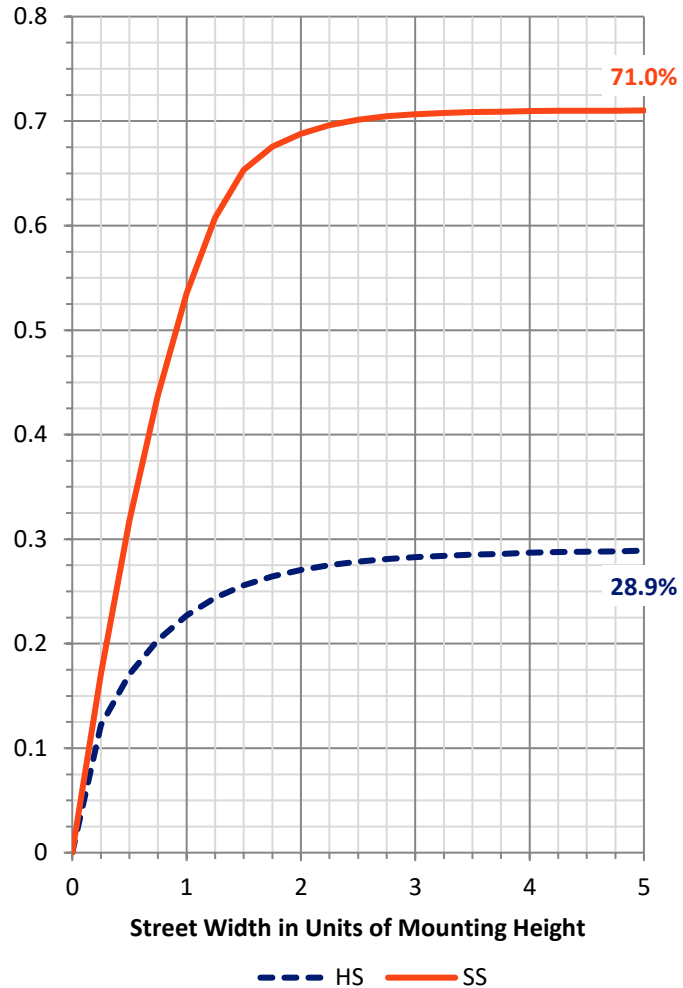
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4605.3	0.0	4605.3
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	11236.2	0.0	11236.2
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	15841.5	0.0	15841.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.6	3.4
10°-20°	1275.6	8.1
20°-30°	1765.2	11.1
30°-40°	2452.8	15.5
40°-50°	3239.4	20.4
50°-60°	3849.6	24.3
60°-70°	2132.7	13.5
70°-80°	531.1	3.4
80°-90°	60.4	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°	15841.5	100.0
0°-180°	15841.5	100.0

**Coefficient of Utilization**



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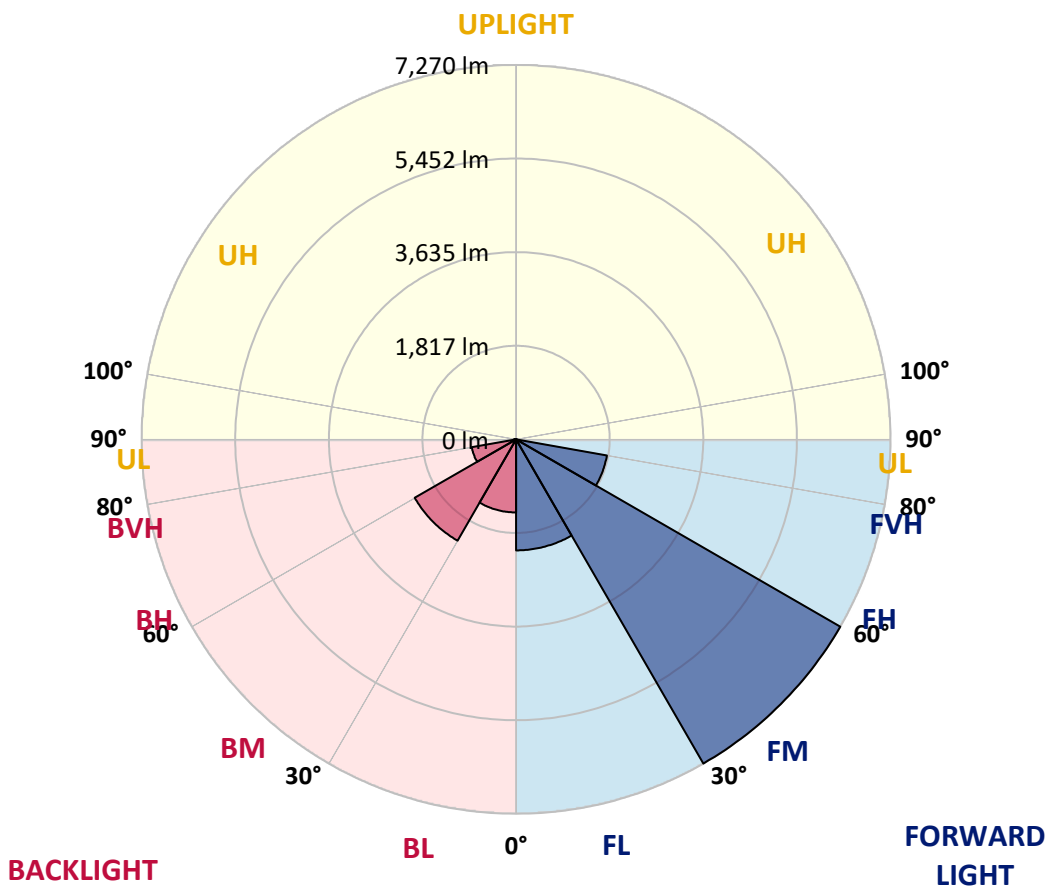
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2156.3	13.6			
FM (30°-60°)	7269.9	45.9			
FH (60°-80°)	1791.1	11.3			G1/1800
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	1419.2	9.0	B3/2500		
BM (30°-60°)	2271.9	14.3	B2/2500		
BH (60°-80°)	872.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	41.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9
2.5°	5968.0	5980.2	5988.3	6016.8	6041.2	6062.9	6086.0	6086.0	6084.6	6080.6	6072.4
5°	5732.0	5745.6	5764.6	5803.9	5856.8	5894.8	5957.2	5962.6	5989.7	6000.5	5995.1
7.5°	5458.1	5462.2	5486.6	5538.1	5622.2	5690.0	5779.5	5790.4	5855.5	5893.4	5886.6
10°	5158.4	5144.9	5188.3	5264.2	5374.1	5488.0	5603.2	5612.7	5717.1	5789.0	5783.6
12.5°	4884.5	4885.9	4929.3	5021.5	5158.4	5299.5	5454.1	5475.8	5604.6	5696.8	5687.3
15°	4655.3	4660.8	4713.7	4818.1	4974.0	5142.2	5334.7	5355.1	5517.8	5639.8	5612.7
17.5°	4472.3	4477.7	4523.8	4643.1	4809.9	5013.3	5247.9	5268.3	5470.3	5615.4	5559.8
20°	4346.2	4343.4	4388.2	4502.1	4674.3	4895.4	5172.0	5201.8	5455.4	5624.9	5524.6
22.5°	4294.6	4293.3	4325.8	4419.4	4580.8	4804.5	5125.9	5166.6	5471.7	5667.0	5502.9
25°	4320.4	4315.0	4343.4	4412.6	4541.4	4769.2	5139.5	5182.8	5540.8	5753.7	5506.9
27.5°	4400.4	4393.6	4418.0	4480.4	4578.0	4805.9	5234.4	5284.6	5687.3	5912.4	5561.2
30°	4522.4	4518.4	4542.8	4602.5	4687.9	4927.9	5416.1	5473.0	5913.8	6159.2	5679.2
32.5°	4664.8	4658.1	4701.4	4770.6	4869.6	5150.3	5660.2	5734.8	6182.3	6476.5	5877.1
35°	4824.8	4819.4	4879.1	4979.4	5121.8	5459.5	5955.8	6037.2	6456.2	6835.9	6140.2
37.5°	4980.8	4980.8	5096.1	5245.2	5424.2	5795.8	6233.8	6285.3	6646.0	7154.6	6422.3
40°	5119.1	5127.2	5300.8	5524.6	5752.4	6099.5	6416.9	6460.3	6730.1	7374.2	6667.7
42.5°	5272.3	5279.1	5481.2	5774.1	6045.3	6345.0	6528.1	6549.8	6746.4	7484.1	6841.3
45°	5394.4	5403.9	5654.8	5968.0	6300.2	6529.4	6616.2	6635.2	6769.4	7543.7	6967.4
47.5°	5458.1	5471.7	5759.2	6123.9	6472.5	6694.8	6761.3	6769.4	6864.4	7648.2	7119.3
50°	5447.3	5474.4	5798.5	6201.2	6599.9	6861.6	6994.5	7008.1	7058.3	7801.4	7296.9
52.5°	5543.6	5555.8	5882.6	6293.5	6781.6	7169.5	7400.0	7419.0	7395.9	7916.7	7402.7
55°	5383.5	5441.9	5778.2	6279.9	7058.3	7645.4	8000.7	7991.2	7702.4	8045.5	7579.0
57.5°	4354.3	4439.7	4747.6	5330.7	6602.6	7979.0	8449.6	8426.5	7939.7	8144.5	7770.2
60°	3014.5	3028.1	3306.1	3719.7	5096.1	7048.8	8318.0	8368.2	7983.1	8019.7	7416.3
62.5°	2411.1	2407.0	2432.8	2443.6	3241.0	4955.0	6566.0	6749.1	6632.5	6248.7	5256.1
65°	2058.5	2073.4	2149.3	2110.0	2115.4	2790.8	3923.1	3948.8	3867.5	3729.2	2779.9
67.5°	1611.0	1636.8	1771.0	1924.2	1875.4	1796.8	2035.4	2023.2	1594.7	1234.0	1019.8
70°	1008.9	1025.2	1168.9	1510.6	1632.7	1475.4	1308.6	1303.2	854.3	702.4	770.2
72.5°	588.5	591.2	631.9	842.1	1083.5	1008.9	962.8	927.5	549.2	560.1	614.3
75°	324.1	324.1	322.7	363.4	427.2	378.3	366.1	356.6	367.5	416.3	457.0
77.5°	67.8	69.2	73.2	96.3	124.8	151.9	191.2	192.6	240.0	278.0	310.5
80°	31.2	32.5	40.7	51.5	66.4	88.1	116.6	118.0	145.1	174.9	196.6
82.5°	16.3	17.6	21.7	27.1	35.3	46.1	65.1	65.1	86.8	103.1	116.6
85°	5.4	5.4	8.1	10.8	14.9	19.0	25.8	25.8	38.0	50.2	58.3
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.4	5.4	6.8	8.1	13.6
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°	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9
2.5°	6054.8	6012.8	6014.1	6022.2	5996.5	5957.2	5931.4	5898.8	5878.5	5874.4	5889.4
5°	5968.0	5919.2	5885.3	5850.0	5776.8	5690.0	5622.2	5566.6	5530.0	5516.4	5500.2
7.5°	5848.7	5784.9	5699.5	5600.5	5467.6	5313.0	5204.5	5102.8	5032.3	5012.0	5002.5
10°	5729.3	5637.1	5485.2	5300.8	5079.8	4871.0	4674.3	4523.8	4404.5	4336.7	4358.4
12.5°	5605.9	5492.0	5254.7	4971.3	4663.5	4348.9	4091.2	3841.7	3649.1	3552.9	3524.4
15°	5497.5	5342.9	5012.0	4628.2	4218.7	3822.7	3449.8	3075.5	2831.4	2698.6	2661.9
17.5°	5405.2	5204.5	4755.7	4278.4	3788.8	3224.7	2766.4	2419.2	2252.4	2179.2	2173.8
20°	5314.4	5068.9	4502.1	3901.4	3292.5	2660.6	2251.1	2088.3	2028.7	2002.9	2001.5
22.5°	5233.0	4926.6	4235.0	3524.4	2798.9	2236.1	2011.0	1940.5	1924.2	1924.2	1921.5
25°	5163.9	4784.2	3961.0	3124.4	2352.8	1990.7	1886.3	1856.4	1863.2	1875.4	1876.8
27.5°	5135.4	4673.0	3696.6	2713.5	2044.9	1848.3	1800.8	1796.8	1815.8	1834.7	1837.5
30°	5165.2	4597.0	3425.4	2320.2	1860.5	1761.5	1739.8	1748.0	1771.0	1790.0	1790.0
32.5°	5257.4	4559.1	3148.8	2032.7	1753.4	1700.5	1693.7	1701.9	1719.5	1730.3	1731.7
35°	5413.4	4574.0	2862.6	1838.8	1684.2	1655.7	1654.4	1659.8	1666.6	1673.4	1674.7
37.5°	5610.0	4640.4	2556.2	1726.3	1639.5	1623.2	1620.5	1619.1	1620.5	1620.5	1621.8
40°	5802.6	4740.8	2282.2	1659.8	1608.3	1594.7	1587.9	1578.4	1577.1	1574.4	1573.0
42.5°	5944.9	4818.1	2063.9	1612.4	1579.8	1563.5	1555.4	1540.5	1539.1	1537.8	1536.4
45°	6052.1	4883.2	1882.2	1566.2	1550.0	1535.1	1517.4	1503.9	1506.6	1509.3	1509.3
47.5°	6172.8	4940.1	1749.3	1522.9	1513.4	1498.4	1476.7	1467.3	1476.7	1486.2	1486.2
50°	6319.2	5020.1	1640.8	1479.5	1475.4	1457.8	1438.8	1434.7	1445.6	1459.1	1459.1
52.5°	6426.3	5089.3	1563.5	1436.1	1436.1	1413.0	1396.7	1395.4	1407.6	1421.1	1422.5
55°	6627.0	5250.6	1536.4	1385.9	1380.5	1362.8	1350.6	1341.1	1356.1	1368.3	1368.3
57.5°	6853.5	5464.9	1543.2	1314.0	1307.2	1301.8	1292.3	1281.5	1285.5	1299.1	1300.5
60°	6373.5	5050.0	1468.6	1242.1	1238.1	1235.4	1223.2	1204.2	1209.6	1220.5	1221.8
62.5°	4451.9	3356.2	1187.9	1152.6	1166.2	1164.9	1148.6	1126.9	1128.2	1143.2	1143.2
65°	2310.7	1815.8	1042.8	1071.3	1091.6	1083.5	1056.4	1037.4	1034.7	1053.7	1049.6
67.5°	996.7	991.3	949.2	985.9	1007.5	989.9	961.4	930.3	933.0	939.7	934.3
70°	802.8	827.2	844.8	884.1	901.8	869.2	838.0	820.4	805.5	804.1	794.6
72.5°	641.4	675.3	714.6	755.3	760.7	728.2	688.9	672.6	649.6	648.2	638.7
75°	482.8	511.2	542.4	575.0	575.0	543.8	518.0	509.9	482.8	474.6	466.5
77.5°	329.5	347.2	371.6	379.7	387.8	375.6	349.9	336.3	305.1	297.0	286.1
80°	207.5	219.7	234.6	240.0	248.2	233.2	212.9	198.0	176.3	169.5	164.1
82.5°	124.8	132.9	142.4	145.1	151.9	141.0	122.0	111.2	99.0	93.6	89.5
85°	63.7	67.8	73.2	74.6	73.2	62.4	55.6	50.2	42.0	40.7	38.0
87.5°	16.3	19.0	20.3	19.0	17.6	13.6	9.5	6.8	2.7	2.7	1.4
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)