

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: P639508

Luminaire Tested: GWS-SA5C-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-722-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

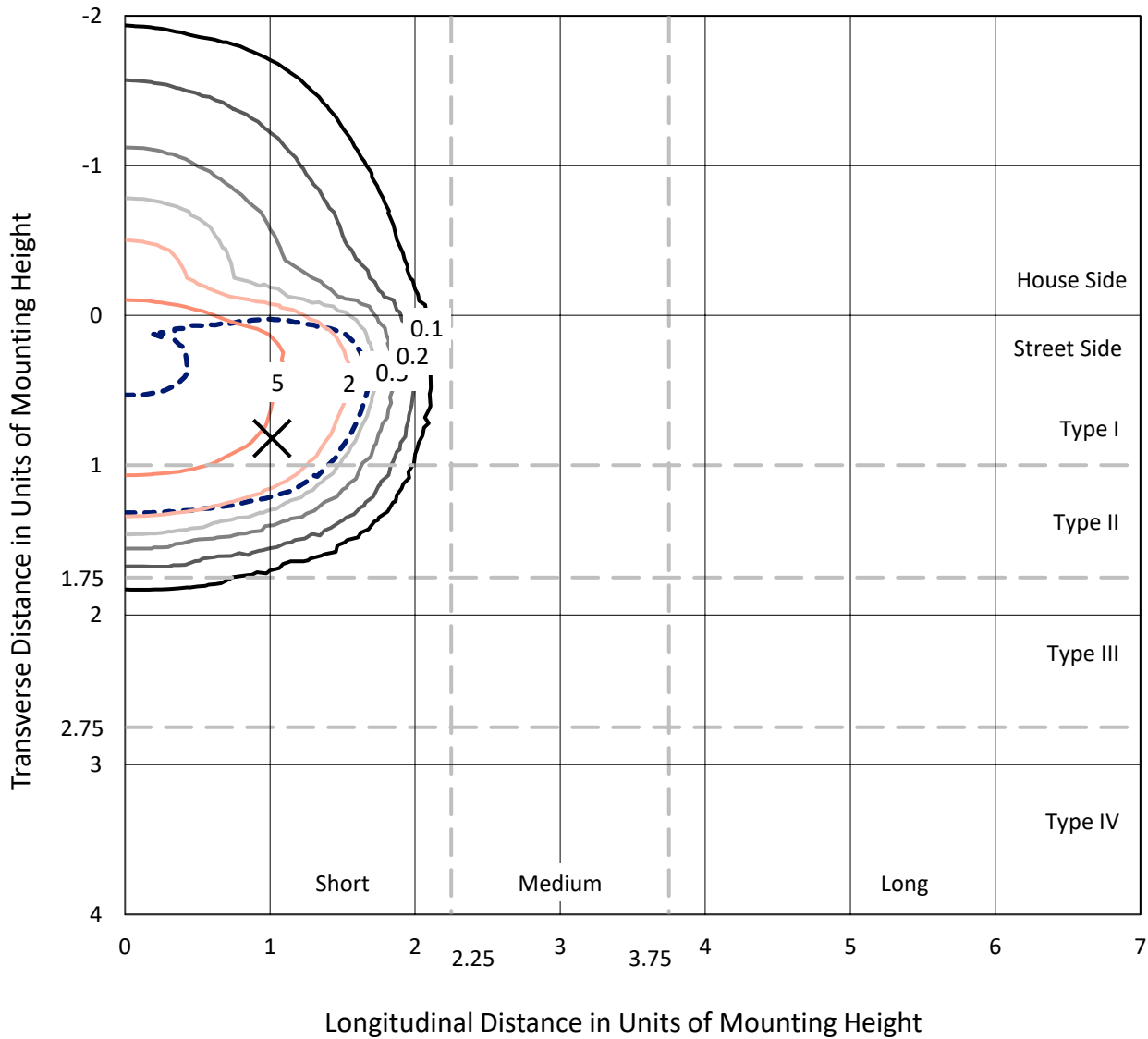
Lumens per Lamp: N/A  
Luminaire Lumens: 15912.5 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P639508  
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### Iso-Footcandle Lines of Horizontal Illumination

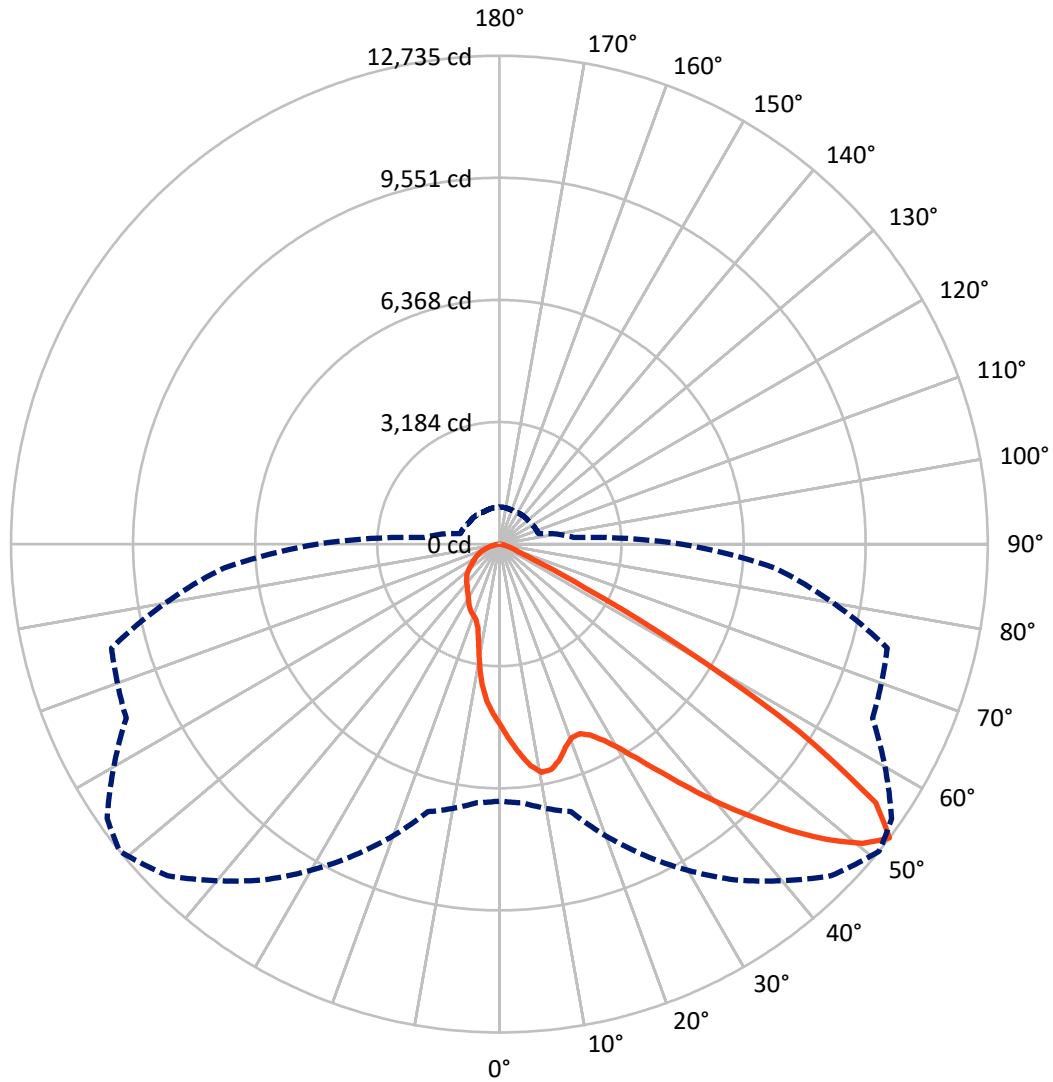
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P639508  
CATALOG NUMBER: GWS-SA5C-722-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P639508

CATALOG NUMBER: GWS-SA5C-722-U-AFL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3100.4	0.0	3100.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	12812.1	0.0	12812.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	15912.5	0.0	15912.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.1	2.8
10°-20°	1148.8	7.2
20°-30°	1867.8	11.7
30°-40°	2960.1	18.6
40°-50°	4464.5	28.1
50°-60°	3862.1	24.3
60°-70°	875.6	5.5
70°-80°	258.2	1.6
80°-90°	33.3	0.2
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°	15912.5	100.0
0°-180°	15912.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639508

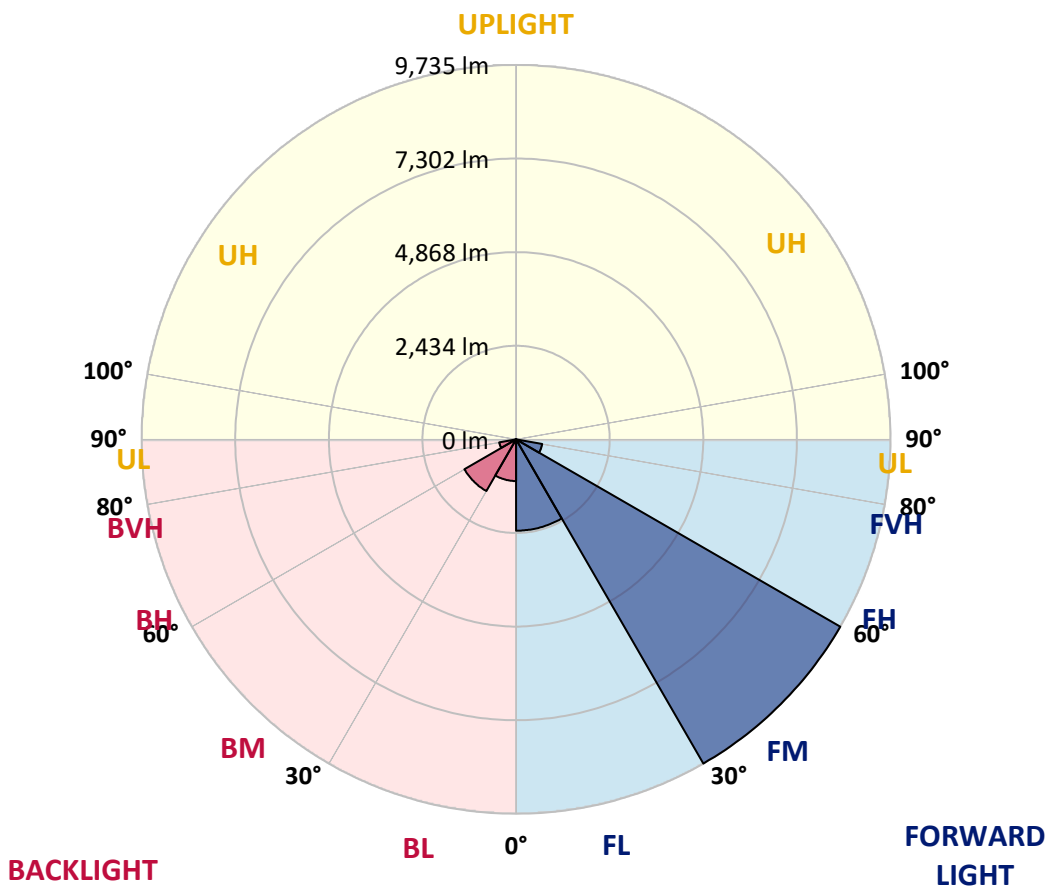
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2375.0	14.9			
FM (30°-60°)	9735.5	61.2			
FH (60°-80°)	689.1	4.3			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	1083.8	6.8	B3/2500		
BM (30°-60°)	1551.2	9.7	B2/2500		
BH (60°-80°)	444.7	2.8	B1/500		G1/500
BVH (80°-90°)	20.7	0.1			G1/100
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





REPORT NUMBER: P639508

CATALOG NUMBER: GWS-SA5C-722-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9
2.5°	5279.9	5310.1	5263.5	5245.9	5217.0	5166.7	5108.9	5092.5	4968.1	4886.3	4794.5
5°	5810.5	5826.9	5789.1	5751.4	5679.8	5590.5	5478.6	5454.7	5228.3	5041.0	4846.1
7.5°	5928.7	5922.4	5955.1	5976.5	5967.7	5932.5	5833.2	5786.6	5516.3	5219.5	4931.6
10°	5461.0	5425.8	5546.5	5689.8	5862.1	6060.7	6049.4	6045.7	5810.5	5459.7	5041.0
12.5°	4841.1	4823.4	4921.5	5101.3	5427.0	5867.1	6031.8	6160.1	6075.8	5688.6	5163.0
15°	4486.5	4480.2	4546.8	4676.3	4935.4	5491.1	5843.2	6097.2	6303.4	5933.7	5292.5
17.5°	4422.3	4426.1	4448.7	4522.9	4709.0	5166.7	5574.1	5928.7	6480.7	6202.8	5454.7
20°	4609.7	4634.8	4595.9	4607.2	4707.8	5049.8	5390.5	5759.0	6593.9	6473.2	5629.5
22.5°	5025.9	5017.1	4931.6	4881.3	4882.5	5121.5	5370.4	5679.8	6668.1	6736.0	5787.9
25°	5497.4	5487.4	5385.5	5273.6	5203.2	5316.4	5515.0	5764.0	6734.7	6976.1	5914.9
27.5°	6054.5	6023.0	5909.9	5766.5	5610.6	5659.6	5794.2	5991.6	6837.8	7212.5	5999.1
30°	6593.9	6630.4	6468.2	6298.4	6133.7	6103.5	6181.5	6360.0	7047.8	7489.2	6099.7
32.5°	7309.4	7296.8	7117.0	6895.7	6660.5	6637.9	6699.5	6863.0	7425.0	7871.4	6253.1
35°	8175.7	8178.2	7923.0	7623.7	7289.2	7228.9	7332.0	7490.4	7987.1	8389.5	6495.8
37.5°	9076.0	9072.3	8849.7	8510.2	8053.8	7968.2	8086.4	8204.6	8690.0	9094.9	6873.0
40°	9707.3	9732.4	9628.0	9449.5	9016.9	8808.2	8912.6	8994.3	9454.5	9924.8	7369.7
42.5°	10065.6	10103.3	10126.0	10232.9	10005.3	9782.7	9745.0	9787.7	10137.3	10695.6	7836.2
45°	10142.3	10192.6	10357.3	10753.4	10841.4	10778.6	10655.3	10552.2	10646.5	11242.6	8141.8
47.5°	9804.1	9892.1	10244.2	10937.0	11451.3	11648.7	11511.6	11354.5	10940.8	11383.4	8110.3
50°	8463.7	8566.8	9360.2	10562.3	11538.1	12257.3	12269.9	12037.2	10905.6	10977.2	7715.5
52.5°	6700.8	6771.2	7225.1	8954.1	10686.8	12232.1	12735.1	12486.1	10735.8	10469.2	7221.3
55°	4004.9	4118.0	4541.8	5907.3	8325.4	10841.4	11912.8	12033.5	10652.8	10043.0	6884.4
57.5°	1351.7	1407.0	1811.9	2609.1	4906.4	7938.1	9204.3	9694.7	9670.8	9391.6	6226.7
60°	643.8	656.4	738.1	989.6	1964.1	4148.2	5448.4	6014.2	6529.8	6581.3	3874.1
62.5°	490.4	497.9	539.4	593.5	789.7	1747.8	2497.2	2929.8	3129.7	2685.8	1410.8
65°	409.9	416.2	447.6	481.6	536.9	757.0	958.2	1105.3	995.9	775.8	672.7
67.5°	342.0	347.0	370.9	407.4	445.1	506.7	531.9	547.0	573.4	643.8	618.6
70°	267.8	272.9	298.0	329.4	365.9	381.0	404.9	420.0	472.8	563.3	560.8
72.5°	206.2	212.5	226.3	246.5	276.6	291.7	318.1	335.7	365.9	438.8	469.0
75°	150.9	154.7	167.2	173.5	177.3	173.5	199.9	220.0	260.3	287.9	295.5
77.5°	61.6	69.2	66.6	66.6	79.2	95.6	109.4	122.0	149.6	166.0	167.2
80°	25.1	27.7	32.7	36.5	44.0	56.6	65.4	70.4	83.0	93.0	100.6
82.5°	15.1	16.3	18.9	20.1	25.1	32.7	37.7	41.5	51.6	61.6	65.4
85°	7.5	7.5	8.8	10.1	12.6	15.1	17.6	20.1	26.4	32.7	36.5
87.5°	1.3	1.3	1.3	2.5	3.8	5.0	6.3	7.5	8.8	10.1	12.6
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: P639508  
 CATALOG NUMBER: GWS-SA5C-722-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9	4737.9
2.5°	4740.5	4672.6	4593.3	4530.5	4457.5	4403.5	4326.8	4279.0	4233.7	4196.0	4168.3
5°	4745.5	4631.1	4466.3	4320.5	4169.6	4026.2	3879.1	3759.7	3652.8	3563.5	3556.0
7.5°	4774.4	4609.7	4351.9	4096.7	3802.4	3518.3	3234.1	3002.7	2826.7	2734.9	2716.0
10°	4823.4	4607.2	4235.0	3827.6	3325.9	2868.2	2531.2	2355.1	2253.3	2216.8	2204.3
12.5°	4875.0	4600.9	4085.3	3447.8	2751.2	2350.1	2165.3	2143.9	2162.8	2165.3	2164.0
15°	4937.9	4597.1	3896.7	3002.7	2331.3	2109.9	2122.5	2167.8	2211.8	2221.9	2221.9
17.5°	5014.6	4588.3	3640.2	2567.6	2068.5	2063.4	2130.1	2190.4	2231.9	2239.5	2239.5
20°	5095.1	4565.7	3324.6	2213.1	1961.6	2034.5	2106.2	2152.7	2181.6	2191.7	2192.9
22.5°	5150.4	4505.3	2961.2	1950.3	1894.9	1979.2	2030.7	2078.5	2078.5	2053.4	2045.8
25°	5161.7	4375.8	2567.6	1770.4	1815.7	1893.7	1946.5	1918.8	1867.3	1847.1	1845.9
27.5°	5120.2	4187.2	2179.1	1642.2	1720.1	1798.1	1789.3	1749.1	1726.4	1706.3	1713.9
30°	5069.9	3960.9	1842.1	1536.6	1609.5	1686.2	1656.0	1642.2	1625.8	1603.2	1608.2
32.5°	5036.0	3708.1	1583.1	1454.8	1535.3	1547.9	1569.3	1568.0	1552.9	1510.2	1507.6
35°	5046.0	3452.9	1409.6	1388.2	1473.7	1468.7	1508.9	1501.4	1397.0	1337.9	1334.1
37.5°	5126.5	3207.7	1307.7	1335.4	1375.6	1407.0	1442.3	1351.7	1315.3	1277.5	1280.0
40°	5279.9	2980.1	1252.4	1306.5	1316.5	1363.0	1281.3	1280.0	1263.7	1229.8	1228.5
42.5°	5453.4	2787.7	1214.7	1292.6	1278.8	1287.6	1200.8	1210.9	1209.6	1188.3	1182.0
45°	5559.0	2610.4	1184.5	1241.1	1244.8	1156.8	1130.4	1141.7	1148.0	1136.7	1135.4
47.5°	5449.6	2406.7	1153.1	1161.9	1194.5	1097.7	1065.0	1066.3	1077.6	1078.9	1073.8
50°	5142.8	2179.1	1115.3	1094.0	1072.6	1036.1	1005.9	999.6	1011.0	1022.3	1026.1
52.5°	4746.7	1961.6	1052.5	1019.8	969.5	969.5	955.6	935.5	950.6	965.7	970.7
55°	4456.3	1800.6	963.2	926.7	871.4	890.3	887.7	870.1	890.3	901.6	905.3
57.5°	3861.5	1447.3	847.5	836.2	789.7	812.3	817.3	794.7	784.6	787.1	790.9
60°	2292.3	934.3	764.5	763.3	721.8	748.2	763.3	740.6	710.4	714.2	719.2
62.5°	1028.6	714.2	660.1	655.1	653.9	687.8	704.2	682.8	640.0	643.8	648.8
65°	647.6	617.4	573.4	573.4	593.5	622.4	635.0	617.4	568.4	562.1	567.1
67.5°	601.0	574.6	529.4	520.6	530.6	554.5	555.8	521.8	492.9	487.9	487.9
70°	539.4	519.3	475.3	457.7	453.9	452.7	448.9	440.1	421.2	416.2	418.7
72.5°	446.4	432.6	404.9	386.0	376.0	374.7	359.6	352.1	335.7	333.2	332.0
75°	295.5	299.3	299.3	296.8	287.9	284.2	267.8	260.3	241.4	233.9	232.6
77.5°	174.8	178.6	183.6	184.8	183.6	183.6	168.5	159.7	140.8	130.8	128.3
80°	106.9	109.4	111.9	115.7	110.7	106.9	93.0	84.2	75.4	69.2	67.9
82.5°	69.2	71.7	72.9	75.4	72.9	67.9	56.6	51.6	45.3	40.2	39.0
85°	39.0	40.2	42.8	42.8	39.0	35.2	28.9	25.1	21.4	18.9	18.9
87.5°	13.8	13.8	13.8	15.1	12.6	11.3	7.5	5.0	3.8	3.8	3.8
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)