

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: P641488

Luminaire Tested: GWS-SA6B-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641488  
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-SA6B-722-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

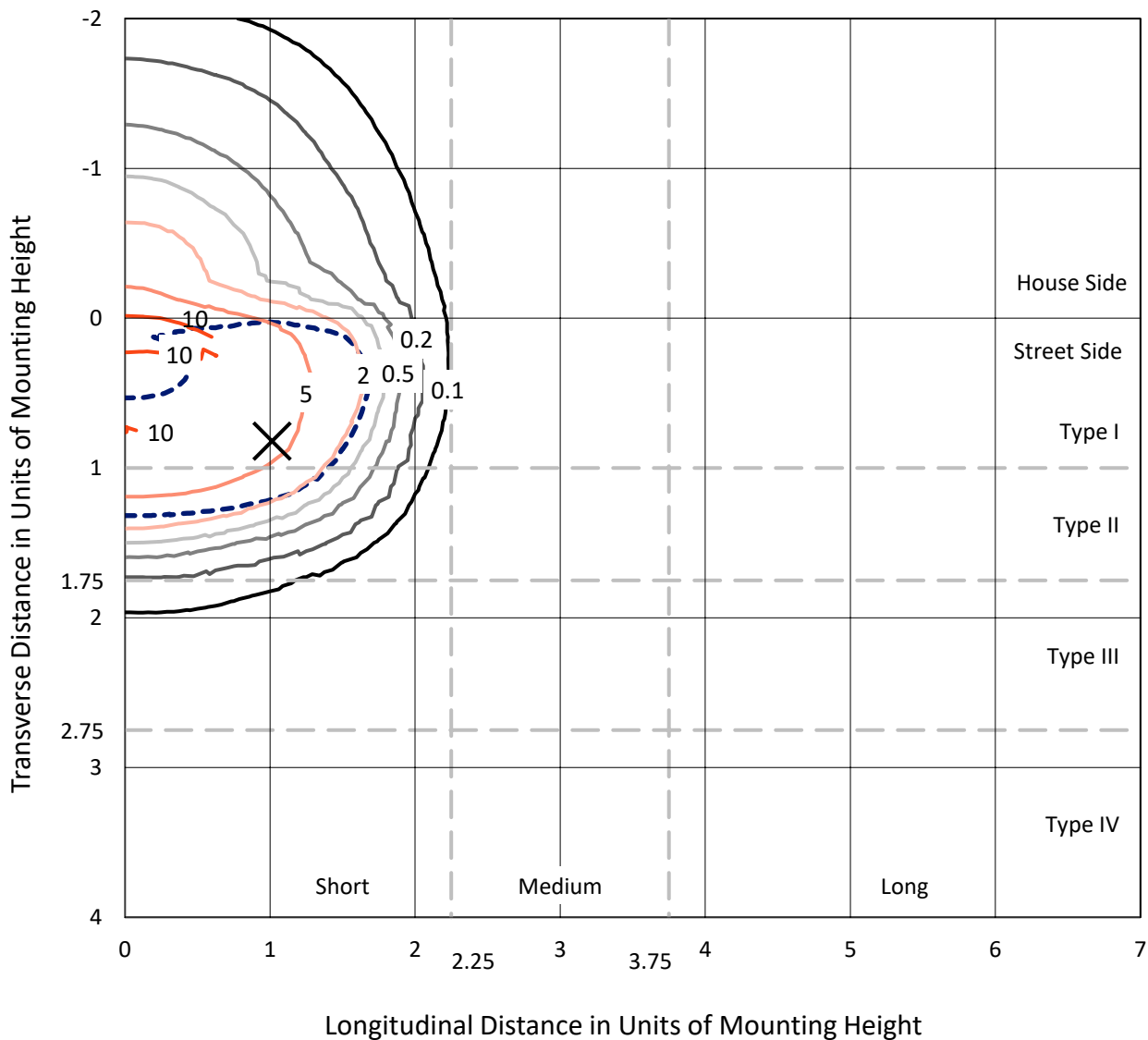
Lumens per Lamp: N/A  
Luminaire Lumens: 14148.3 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

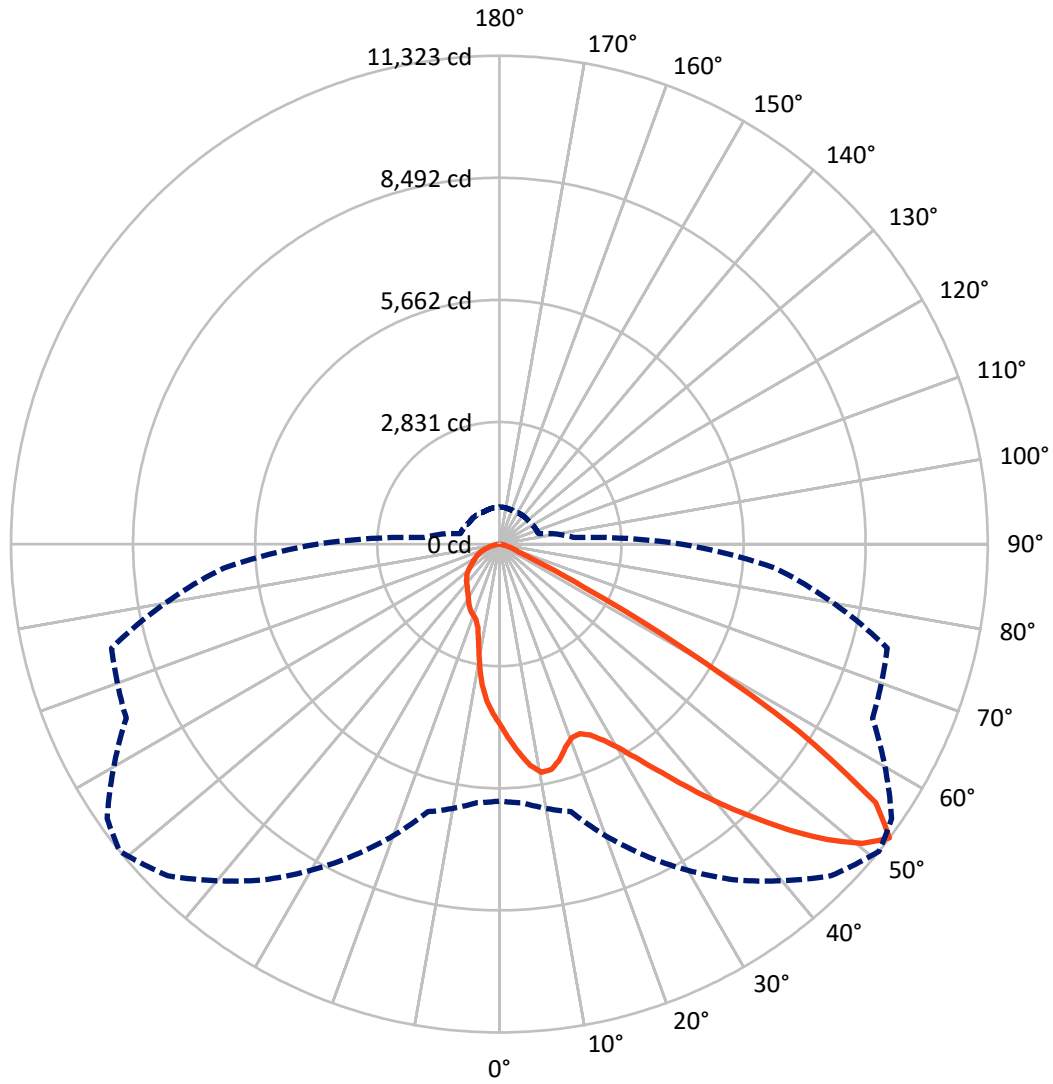
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2756.7	0.0	2756.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11391.6	0.0	11391.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	14148.3	0.0	14148.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.1	2.8
10°-20°	1021.4	7.2
20°-30°	1660.8	11.7
30°-40°	2631.9	18.6
40°-50°	3969.5	28.1
50°-60°	3433.9	24.3
60°-70°	778.5	5.5
70°-80°	229.5	1.6
80°-90°	29.6	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°	14148.3	100.0
0°-180°	14148.3	100.0

**Coefficient of Utilization**



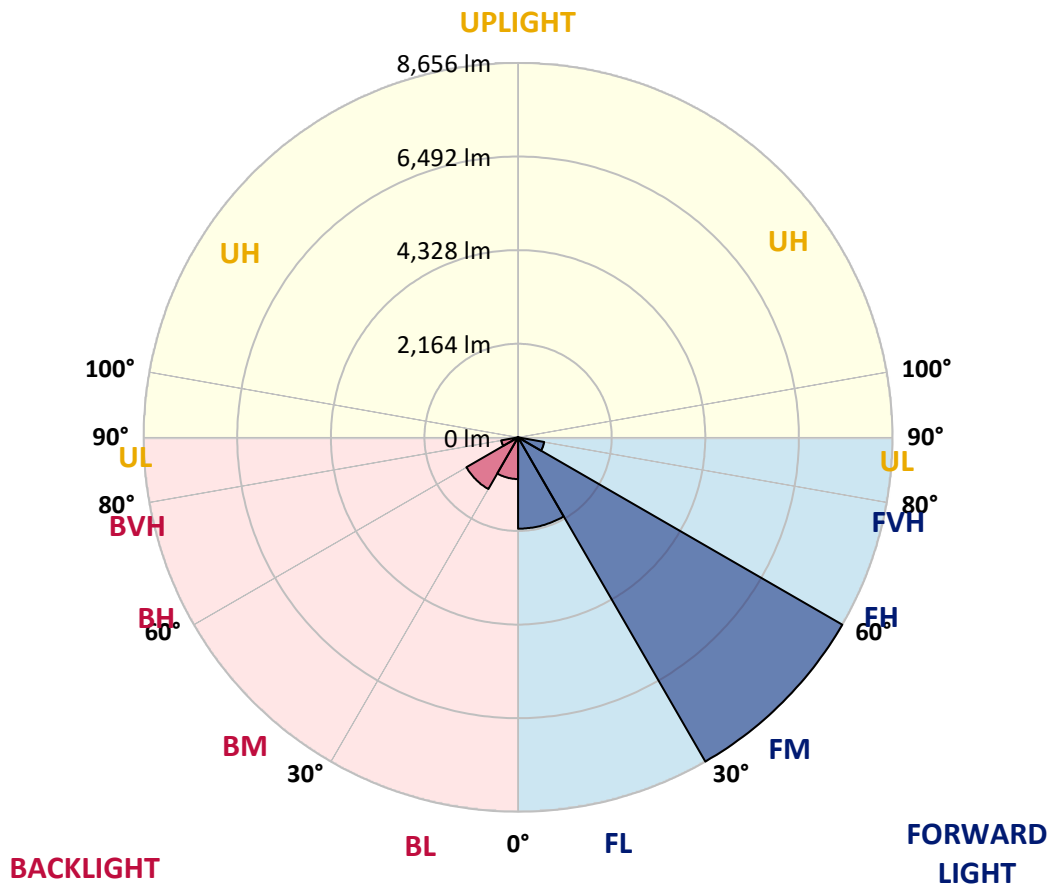
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.7	14.9			
FM (30°-60°)	8656.1	61.2			
FH (60°-80°)	612.7	4.3			G0/660
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	963.6	6.8	B2/1000		
BM (30°-60°)	1379.3	9.7	B2/2500		
BH (60°-80°)	395.4	2.8	B1/500		G1/500
BVH (80°-90°)	18.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7
2.5°	4694.5	4721.3	4680.0	4664.3	4638.6	4593.9	4542.5	4527.9	4417.3	4344.6	4263.0
5°	5166.3	5180.8	5147.3	5113.8	5050.0	4970.7	4871.2	4849.9	4648.7	4482.1	4308.8
7.5°	5271.4	5265.8	5294.9	5313.9	5306.1	5274.8	5186.4	5145.1	4904.7	4640.9	4384.8
10°	4855.5	4824.2	4931.5	5059.0	5212.2	5388.8	5378.7	5375.4	5166.3	4854.4	4482.1
12.5°	4304.3	4288.7	4375.9	4535.8	4825.3	5216.6	5363.1	5477.1	5402.2	5057.9	4590.5
15°	3989.1	3983.5	4042.7	4157.9	4388.2	4882.3	5195.4	5421.2	5604.6	5275.9	4705.7
17.5°	3932.0	3935.4	3955.5	4021.5	4186.9	4593.9	4956.1	5271.4	5762.2	5515.1	4849.9
20°	4098.6	4121.0	4086.3	4096.4	4185.8	4489.9	4792.9	5120.5	5862.8	5755.5	5005.3
22.5°	4468.7	4460.9	4384.8	4340.1	4341.2	4553.6	4775.0	5050.0	5928.8	5989.2	5146.2
25°	4887.9	4879.0	4788.4	4688.9	4626.3	4726.9	4903.6	5124.9	5988.1	6202.7	5259.1
27.5°	5383.2	5355.3	5254.6	5127.2	4988.6	5032.2	5151.8	5327.3	6079.7	6412.9	5334.0
30°	5862.8	5895.3	5751.0	5600.1	5453.6	5426.8	5496.1	5654.9	6266.4	6658.9	5423.5
32.5°	6499.0	6487.8	6327.9	6131.2	5922.1	5902.0	5956.7	6102.1	6601.8	6998.7	5559.9
35°	7269.3	7271.5	7044.6	6778.5	6481.1	6427.4	6519.1	6660.0	7101.6	7459.4	5775.6
37.5°	8069.8	8066.4	7868.5	7566.7	7160.8	7084.8	7189.9	7295.0	7726.6	8086.6	6111.0
40°	8631.0	8653.4	8560.6	8401.8	8017.2	7831.6	7924.4	7997.1	8406.3	8824.4	6552.6
42.5°	8949.7	8983.2	9003.3	9098.4	8896.0	8698.1	8664.6	8702.6	9013.4	9509.8	6967.4
45°	9017.9	9062.6	9209.0	9561.2	9639.5	9583.6	9474.0	9382.3	9466.2	9996.1	7239.1
47.5°	8717.1	8795.4	9108.4	9724.4	10181.7	10357.2	10235.4	10095.6	9727.8	10121.3	7211.2
50°	7525.3	7617.0	8322.5	9391.3	10258.8	10898.3	10909.5	10702.7	9696.5	9760.2	6860.1
52.5°	5957.9	6020.5	6424.1	7961.3	9502.0	10876.0	11323.2	11101.8	9545.6	9308.5	6420.7
55°	3560.9	3661.5	4038.2	5252.4	7402.3	9639.5	10592.0	10699.3	9471.8	8929.5	6121.1
57.5°	1201.9	1251.1	1611.0	2319.9	4362.5	7058.0	8183.8	8619.8	8598.6	8350.4	5536.4
60°	572.4	583.6	656.3	879.9	1746.3	3688.3	4844.3	5347.4	5805.8	5851.7	3444.6
62.5°	436.0	442.7	479.6	527.7	702.1	1554.0	2220.4	2605.0	2782.7	2388.1	1254.4
65°	364.5	370.1	398.0	428.2	477.4	673.0	851.9	982.7	885.5	689.8	598.1
67.5°	304.1	308.6	329.8	362.2	395.8	450.6	472.9	486.3	509.8	572.4	550.1
70°	238.1	242.6	265.0	292.9	325.3	338.8	360.0	373.4	420.4	500.9	498.6
72.5°	183.4	188.9	201.2	219.1	246.0	259.4	282.9	298.5	325.3	390.2	417.0
75°	134.2	137.5	148.7	154.3	157.6	154.3	177.8	195.7	231.4	256.0	262.7
77.5°	54.8	61.5	59.3	59.3	70.4	85.0	97.3	108.4	133.0	147.6	148.7
80°	22.4	24.6	29.1	32.4	39.1	50.3	58.1	62.6	73.8	82.7	89.4
82.5°	13.4	14.5	16.8	17.9	22.4	29.1	33.5	36.9	45.8	54.8	58.1
85°	6.7	6.7	7.8	8.9	11.2	13.4	15.7	17.9	23.5	29.1	32.4
87.5°	1.1	1.1	1.1	2.2	3.4	4.5	5.6	6.7	7.8	8.9	11.2
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°	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7
2.5°	4214.9	4154.5	4084.1	4028.2	3963.3	3915.3	3847.1	3804.6	3764.3	3730.8	3706.2
5°	4219.4	4117.6	3971.2	3841.5	3707.3	3579.9	3449.1	3342.8	3247.8	3168.4	3161.7
7.5°	4245.1	4098.6	3869.4	3642.5	3380.9	3128.2	2875.5	2669.8	2513.3	2431.7	2414.9
10°	4288.7	4096.4	3765.5	3403.2	2957.1	2550.2	2250.6	2094.0	2003.5	1971.0	1959.9
12.5°	4334.5	4090.8	3632.4	3065.6	2446.2	2089.6	1925.2	1906.2	1923.0	1925.2	1924.1
15°	4390.4	4087.4	3464.7	2669.8	2072.8	1876.0	1887.2	1927.4	1966.6	1975.5	1975.5
17.5°	4458.6	4079.6	3236.6	2283.0	1839.1	1834.7	1893.9	1947.6	1984.5	1991.2	1991.2
20°	4530.2	4059.5	2956.0	1967.7	1744.1	1808.9	1872.7	1914.0	1939.7	1948.7	1949.8
22.5°	4579.4	4005.8	2632.9	1734.0	1684.8	1759.7	1805.6	1848.1	1848.1	1825.7	1819.0
25°	4589.4	3890.7	2283.0	1574.2	1614.4	1683.7	1730.7	1706.1	1660.2	1642.4	1641.2
27.5°	4552.5	3723.0	1937.5	1460.1	1529.4	1598.8	1590.9	1555.1	1535.0	1517.1	1523.8
30°	4507.8	3521.7	1637.9	1366.2	1431.1	1499.2	1472.4	1460.1	1445.6	1425.5	1429.9
32.5°	4477.6	3297.0	1407.6	1293.5	1365.1	1376.3	1395.3	1394.2	1380.7	1342.7	1340.5
35°	4486.6	3070.1	1253.3	1234.3	1310.3	1305.8	1341.6	1334.9	1242.1	1189.6	1186.2
37.5°	4558.1	2852.0	1162.7	1187.3	1223.1	1251.1	1282.4	1201.9	1169.4	1135.9	1138.1
40°	4694.5	2649.7	1113.5	1161.6	1170.6	1211.9	1139.3	1138.1	1123.6	1093.4	1092.3
42.5°	4848.8	2478.6	1080.0	1149.3	1137.0	1144.8	1067.7	1076.6	1075.5	1056.5	1050.9
45°	4942.7	2321.0	1053.2	1103.5	1106.8	1028.6	1005.1	1015.2	1020.7	1010.7	1009.6
47.5°	4845.4	2139.9	1025.2	1033.0	1062.1	976.0	947.0	948.1	958.1	959.3	954.8
50°	4572.7	1937.5	991.7	972.7	953.7	921.2	894.4	888.8	898.9	908.9	912.3
52.5°	4220.5	1744.1	935.8	906.7	862.0	862.0	849.7	831.8	845.2	858.6	863.1
55°	3962.2	1601.0	856.4	824.0	774.8	791.5	789.3	773.7	791.5	801.6	805.0
57.5°	3433.4	1286.8	753.5	743.5	702.1	722.2	726.7	706.6	697.6	699.9	703.2
60°	2038.1	830.7	679.7	678.6	641.7	665.2	678.6	658.5	631.7	635.0	639.5
62.5°	914.5	635.0	587.0	582.5	581.4	611.6	626.1	607.1	569.1	572.4	576.9
65°	575.8	548.9	509.8	509.8	527.7	553.4	564.6	548.9	505.3	499.7	504.2
67.5°	534.4	510.9	470.7	462.9	471.8	493.0	494.2	464.0	438.3	433.8	433.8
70°	479.6	461.7	422.6	407.0	403.6	402.5	399.1	391.3	374.5	370.1	372.3
72.5°	396.9	384.6	360.0	343.2	334.3	333.2	319.8	313.0	298.5	296.3	295.2
75°	262.7	266.1	266.1	263.8	256.0	252.7	238.1	231.4	214.7	207.9	206.8
77.5°	155.4	158.8	163.2	164.3	163.2	163.2	149.8	142.0	125.2	116.3	114.0
80°	95.0	97.3	99.5	102.9	98.4	95.0	82.7	74.9	67.1	61.5	60.4
82.5°	61.5	63.7	64.8	67.1	64.8	60.4	50.3	45.8	40.2	35.8	34.7
85°	34.7	35.8	38.0	38.0	34.7	31.3	25.7	22.4	19.0	16.8	16.8
87.5°	12.3	12.3	12.3	13.4	11.2	10.1	6.7	4.5	3.4	3.4	3.4
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)