

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: P633733

Luminaire Tested: GWS-SA2F-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633733  
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-SA2F-735-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

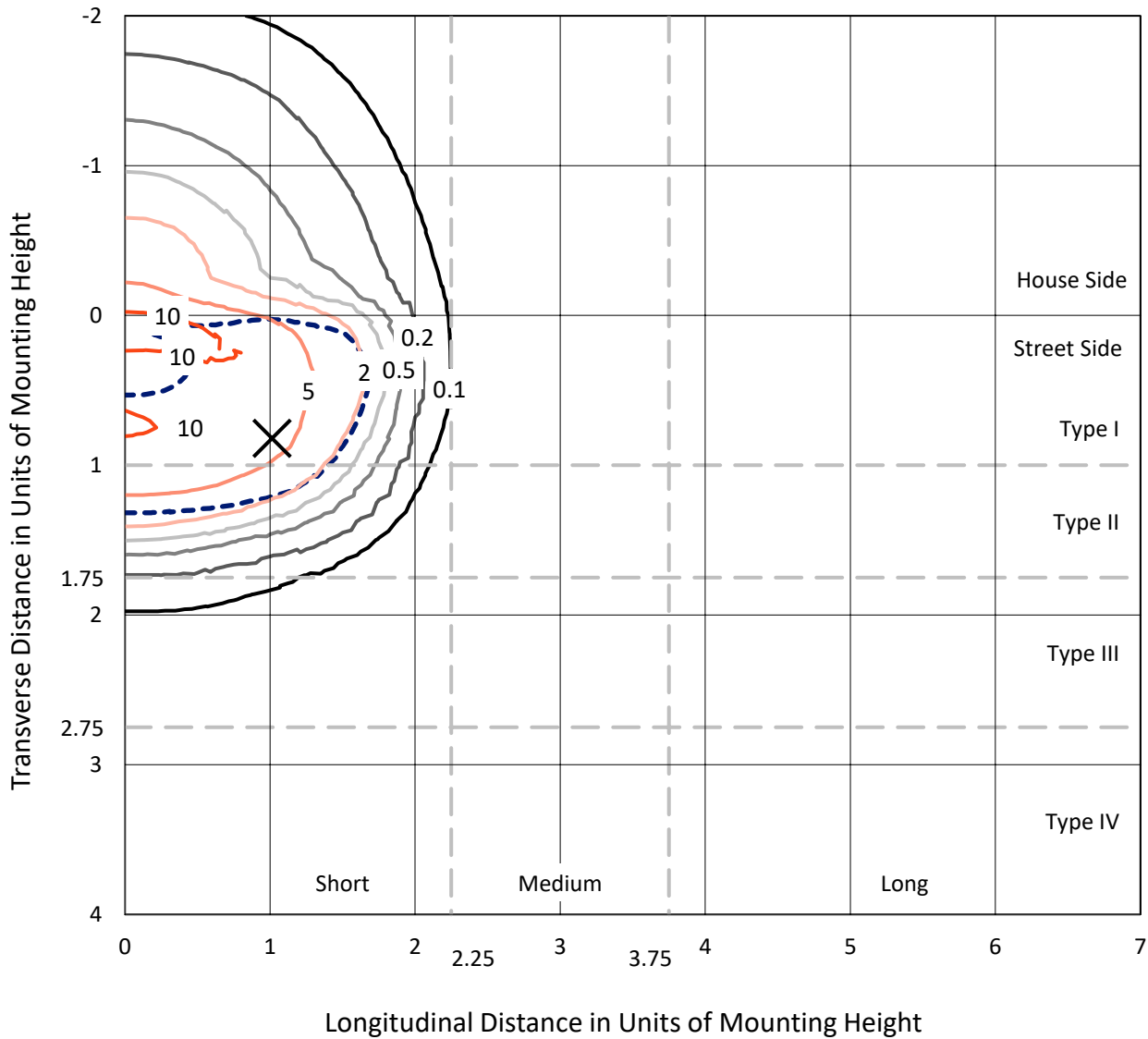
Lumens per Lamp: N/A  
Luminaire Lumens: 14515.4 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

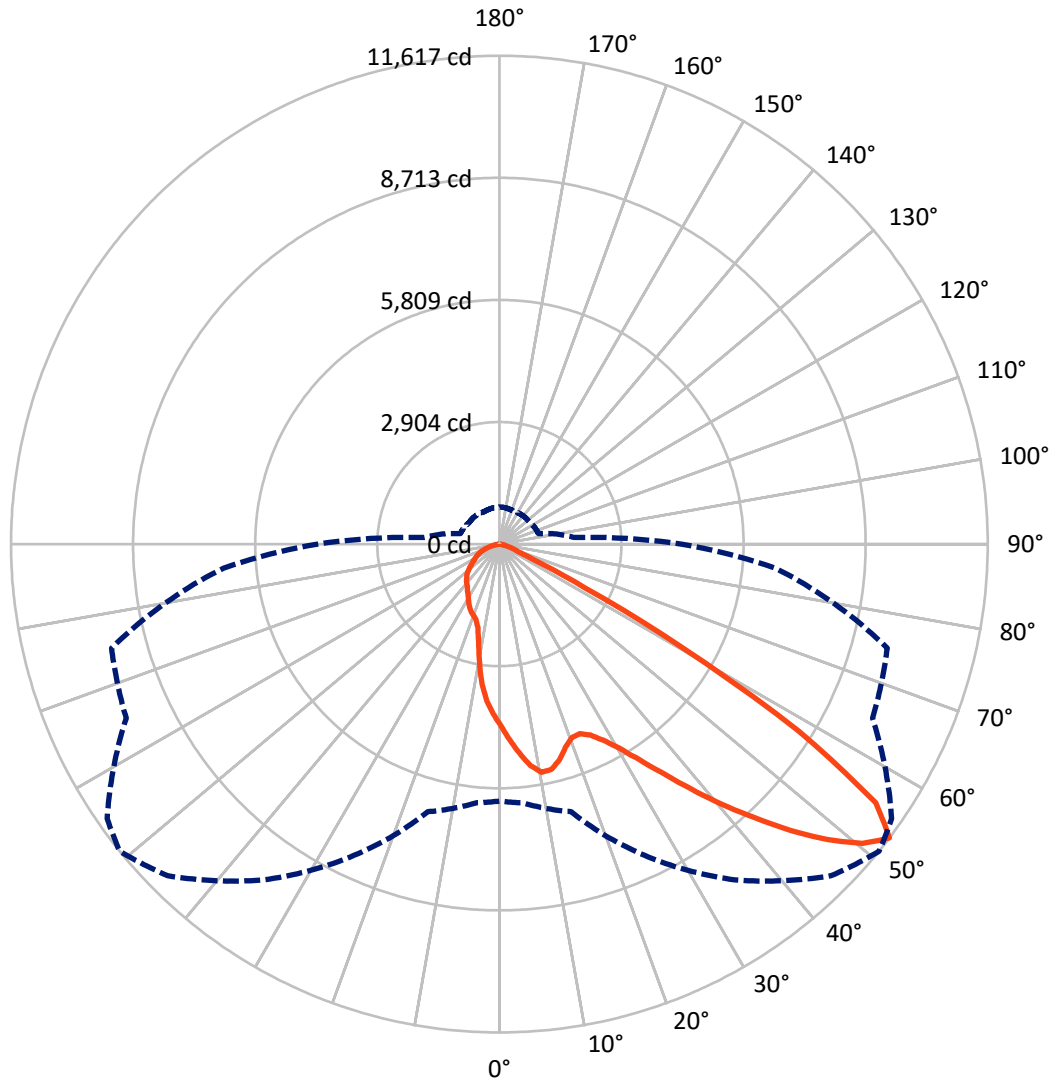
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.2 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	2828.2	0.0	2828.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11687.2	0.0	11687.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	14515.4	0.0	14515.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.3	2.8
10°-20°	1047.9	7.2
20°-30°	1703.8	11.7
30°-40°	2700.2	18.6
40°-50°	4072.5	28.1
50°-60°	3523.0	24.3
60°-70°	798.7	5.5
70°-80°	235.5	1.6
80°-90°	30.3	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°	14515.4	100.0
0°-180°	14515.4	100.0

**Coefficient of Utilization**



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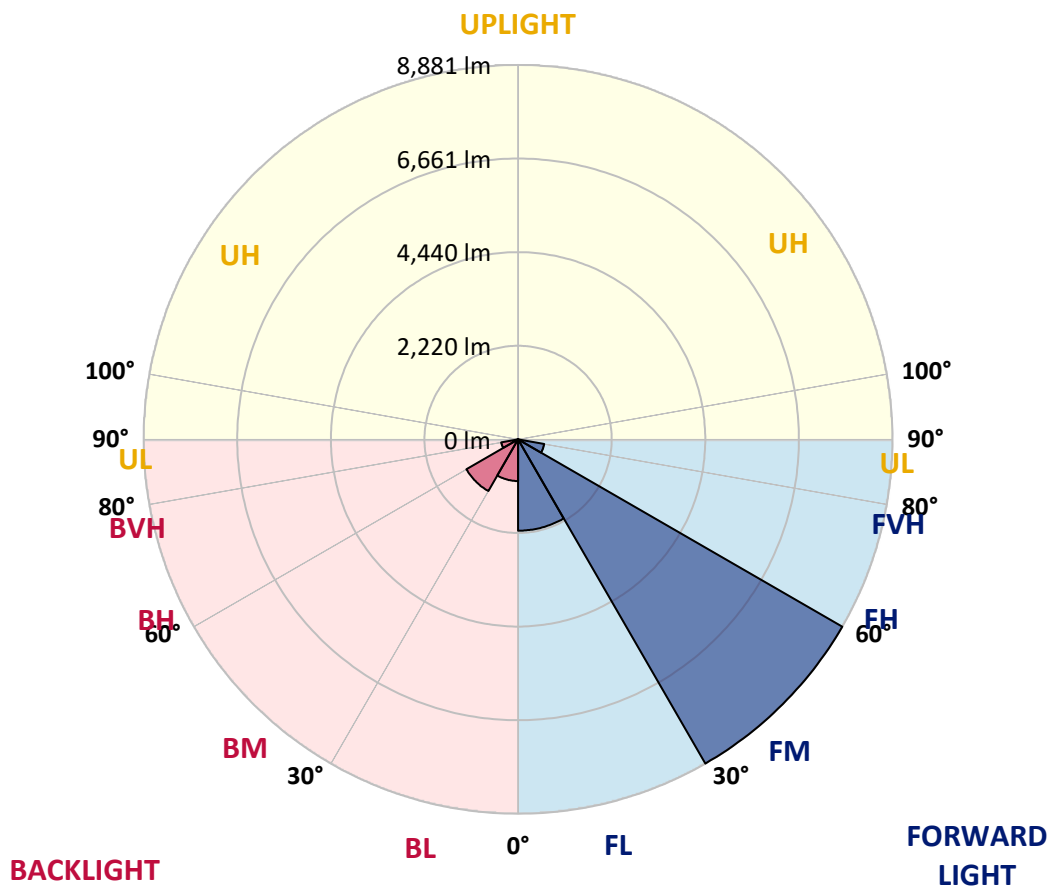
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2166.5	14.9			
FM (30°-60°)	8880.7	61.2			
FH (60°-80°)	628.6	4.3			G0/660
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	988.6	6.8	B2/1000		
BM (30°-60°)	1415.0	9.7	B2/2500		
BH (60°-80°)	405.6	2.8	B1/500		G1/500
BVH (80°-90°)	18.9	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°	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0
2.5°	4816.3	4843.9	4801.4	4785.4	4759.0	4713.1	4660.3	4645.4	4531.9	4457.3	4373.6
5°	5300.4	5315.3	5280.9	5246.5	5181.1	5099.6	4997.6	4975.8	4769.3	4598.4	4420.6
7.5°	5408.2	5402.4	5432.3	5451.8	5443.7	5411.6	5321.0	5278.6	5032.0	4761.3	4498.6
10°	4981.5	4949.4	5059.5	5190.3	5347.4	5528.6	5518.3	5514.9	5300.4	4980.3	4598.4
12.5°	4416.0	4400.0	4489.4	4653.4	4950.5	5352.0	5502.2	5619.2	5542.4	5189.1	4709.7
15°	4092.6	4086.8	4147.6	4265.8	4502.0	5009.0	5330.2	5561.9	5750.0	5412.8	4827.8
17.5°	4034.1	4037.5	4058.1	4125.8	4295.6	4713.1	5084.7	5408.2	5911.7	5658.2	4975.8
20°	4205.0	4227.9	4192.3	4202.7	4294.4	4606.4	4917.3	5253.3	6015.0	5904.8	5135.2
22.5°	4584.6	4576.6	4498.6	4452.7	4453.9	4671.8	4898.9	5181.1	6082.6	6144.6	5279.7
25°	5014.8	5005.6	4912.7	4810.6	4746.4	4849.6	5030.8	5257.9	6143.4	6363.6	5395.6
27.5°	5522.9	5494.2	5391.0	5260.2	5118.0	5162.7	5285.5	5465.5	6237.5	6579.3	5472.4
30°	6015.0	6048.2	5900.3	5745.4	5595.1	5567.6	5638.7	5801.6	6429.0	6831.6	5564.2
32.5°	6667.6	6656.1	6492.1	6290.2	6075.7	6055.1	6111.3	6260.4	6773.1	7180.3	5704.1
35°	7457.9	7460.2	7227.4	6954.4	6649.3	6594.2	6688.3	6832.8	7285.8	7652.9	5925.5
37.5°	8279.2	8275.7	8072.7	7763.0	7346.6	7268.6	7376.5	7484.3	7927.0	8296.4	6269.6
40°	8855.0	8877.9	8782.7	8619.8	8225.3	8034.9	8130.1	8204.6	8624.4	9053.4	6722.7
42.5°	9181.9	9216.3	9236.9	9334.4	9126.8	8923.8	8889.4	8928.4	9247.2	9756.5	7148.2
45°	9251.8	9297.7	9448.0	9809.3	9889.6	9832.2	9719.8	9625.8	9711.8	10255.5	7426.9
47.5°	8943.3	9023.6	9344.7	9976.8	10445.9	10626.0	10500.9	10357.6	9980.2	10383.9	7398.3
50°	7720.6	7814.6	8538.4	9634.9	10525.0	11181.1	11192.6	10980.4	9948.1	10013.5	7038.1
52.5°	6112.5	6176.7	6590.8	8167.9	9748.5	11158.2	11617.0	11389.9	9793.2	9550.1	6587.3
55°	3653.2	3756.5	4143.0	5388.7	7594.4	9889.6	10866.8	10976.9	9717.5	9161.2	6279.9
57.5°	1233.0	1283.5	1652.9	2380.1	4475.7	7241.1	8396.2	8843.5	8821.7	8567.1	5680.0
60°	587.3	598.7	673.3	902.7	1791.6	3784.0	4970.0	5486.2	5956.5	6003.5	3534.0
62.5°	447.3	454.2	492.1	541.4	720.3	1594.4	2278.0	2672.5	2854.9	2450.0	1287.0
65°	373.9	379.7	408.3	439.3	489.8	690.5	874.0	1008.2	908.4	707.7	613.7
67.5°	312.0	316.6	338.4	371.6	406.0	462.2	485.2	499.0	523.0	587.3	564.3
70°	244.3	248.9	271.8	300.5	333.8	347.5	369.3	383.1	431.3	513.9	511.6
72.5°	188.1	193.8	206.5	224.8	252.3	266.1	290.2	306.3	333.8	400.3	427.8
75°	137.6	141.1	152.6	158.3	161.7	158.3	182.4	200.7	237.4	262.7	269.5
77.5°	56.2	63.1	60.8	60.8	72.3	87.2	99.8	111.3	136.5	151.4	152.6
80°	22.9	25.2	29.8	33.3	40.1	51.6	59.6	64.2	75.7	84.9	91.8
82.5°	13.8	14.9	17.2	18.4	22.9	29.8	34.4	37.9	47.0	56.2	59.6
85°	6.9	6.9	8.0	9.2	11.5	13.8	16.1	18.4	24.1	29.8	33.3
87.5°	1.1	1.1	1.1	2.3	3.4	4.6	5.7	6.9	8.0	9.2	11.5
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°	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0	4322.0
2.5°	4324.3	4262.3	4190.1	4132.7	4066.2	4016.9	3946.9	3903.3	3862.0	3827.6	3802.4
5°	4328.8	4224.5	4074.2	3941.1	3803.5	3672.7	3538.5	3429.6	3332.1	3250.6	3243.8
7.5°	4355.2	4205.0	3969.8	3737.0	3468.6	3209.4	2950.1	2739.1	2578.5	2494.8	2477.6
10°	4400.0	4202.7	3863.2	3491.5	3033.9	2616.3	2308.9	2148.4	2055.5	2022.2	2010.7
12.5°	4447.0	4196.9	3726.7	3145.1	2509.7	2143.8	1975.2	1955.7	1972.9	1975.2	1974.0
15°	4504.3	4193.5	3554.6	2739.1	2126.6	1924.7	1936.2	1977.5	2017.6	2026.8	2026.8
17.5°	4574.3	4185.5	3320.6	2342.2	1886.8	1882.3	1943.0	1998.1	2036.0	2042.8	2042.8
20°	4647.7	4164.8	3032.7	2018.7	1789.3	1855.9	1921.3	1963.7	1990.1	1999.3	2000.4
22.5°	4698.2	4109.8	2701.2	1779.0	1728.6	1805.4	1852.4	1896.0	1896.0	1873.1	1866.2
25°	4708.5	3991.6	2342.2	1615.0	1656.3	1727.4	1775.6	1750.3	1703.3	1685.0	1683.8
27.5°	4670.7	3819.6	1987.8	1498.0	1569.1	1640.2	1632.2	1595.5	1574.9	1556.5	1563.4
30°	4624.8	3613.1	1680.4	1401.7	1468.2	1538.1	1510.6	1498.0	1483.1	1462.4	1467.0
32.5°	4593.8	3382.6	1444.1	1327.1	1400.5	1412.0	1431.5	1430.3	1416.6	1377.6	1375.3
35°	4603.0	3149.7	1285.8	1266.3	1344.3	1339.7	1376.4	1369.5	1274.3	1220.4	1217.0
37.5°	4676.4	2926.0	1192.9	1218.1	1254.8	1283.5	1315.6	1233.0	1199.8	1165.4	1167.7
40°	4816.3	2718.4	1142.4	1191.8	1200.9	1243.4	1168.8	1167.7	1152.8	1121.8	1120.6
42.5°	4974.6	2542.9	1108.0	1179.1	1166.5	1174.5	1095.4	1104.6	1103.4	1083.9	1078.2
45°	5071.0	2381.2	1080.5	1132.1	1135.5	1055.3	1031.2	1041.5	1047.2	1036.9	1035.8
47.5°	4971.2	2195.4	1051.8	1059.8	1089.7	1001.3	971.5	972.7	983.0	984.1	979.6
50°	4691.3	1987.8	1017.4	997.9	978.4	945.1	917.6	911.9	922.2	932.5	936.0
52.5°	4330.0	1789.3	960.1	930.2	884.3	884.3	871.7	853.4	867.1	880.9	885.5
55°	4065.0	1642.5	878.6	845.4	794.9	812.1	809.8	793.7	812.1	822.4	825.9
57.5°	3522.5	1320.2	773.1	762.8	720.3	741.0	745.6	724.9	715.7	718.0	721.5
60°	2091.0	852.2	697.4	696.2	658.4	682.5	696.2	675.6	648.1	651.5	656.1
62.5°	938.3	651.5	602.2	597.6	596.4	627.4	642.3	622.8	583.8	587.3	591.9
65°	590.7	563.2	523.0	523.0	541.4	567.8	579.2	563.2	518.5	512.7	517.3
67.5°	548.3	524.2	482.9	474.9	484.0	505.8	507.0	476.0	449.6	445.0	445.0
70°	492.1	473.7	433.6	417.5	414.1	412.9	409.5	401.5	384.3	379.7	382.0
72.5°	407.2	394.6	369.3	352.1	343.0	341.8	328.0	321.2	306.3	304.0	302.8
75°	269.5	273.0	273.0	270.7	262.7	259.2	244.3	237.4	220.2	213.3	212.2
77.5°	159.4	162.9	167.5	168.6	167.5	167.5	153.7	145.7	128.5	119.3	117.0
80°	97.5	99.8	102.1	105.5	100.9	97.5	84.9	76.9	68.8	63.1	61.9
82.5°	63.1	65.4	66.5	68.8	66.5	61.9	51.6	47.0	41.3	36.7	35.6
85°	35.6	36.7	39.0	39.0	35.6	32.1	26.4	22.9	19.5	17.2	17.2
87.5°	12.6	12.6	12.6	13.8	11.5	10.3	6.9	4.6	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)