

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: P634723

Luminaire Tested: GWS-SA3C-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634723  
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-SA3C-735-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12481.6 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 93  
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

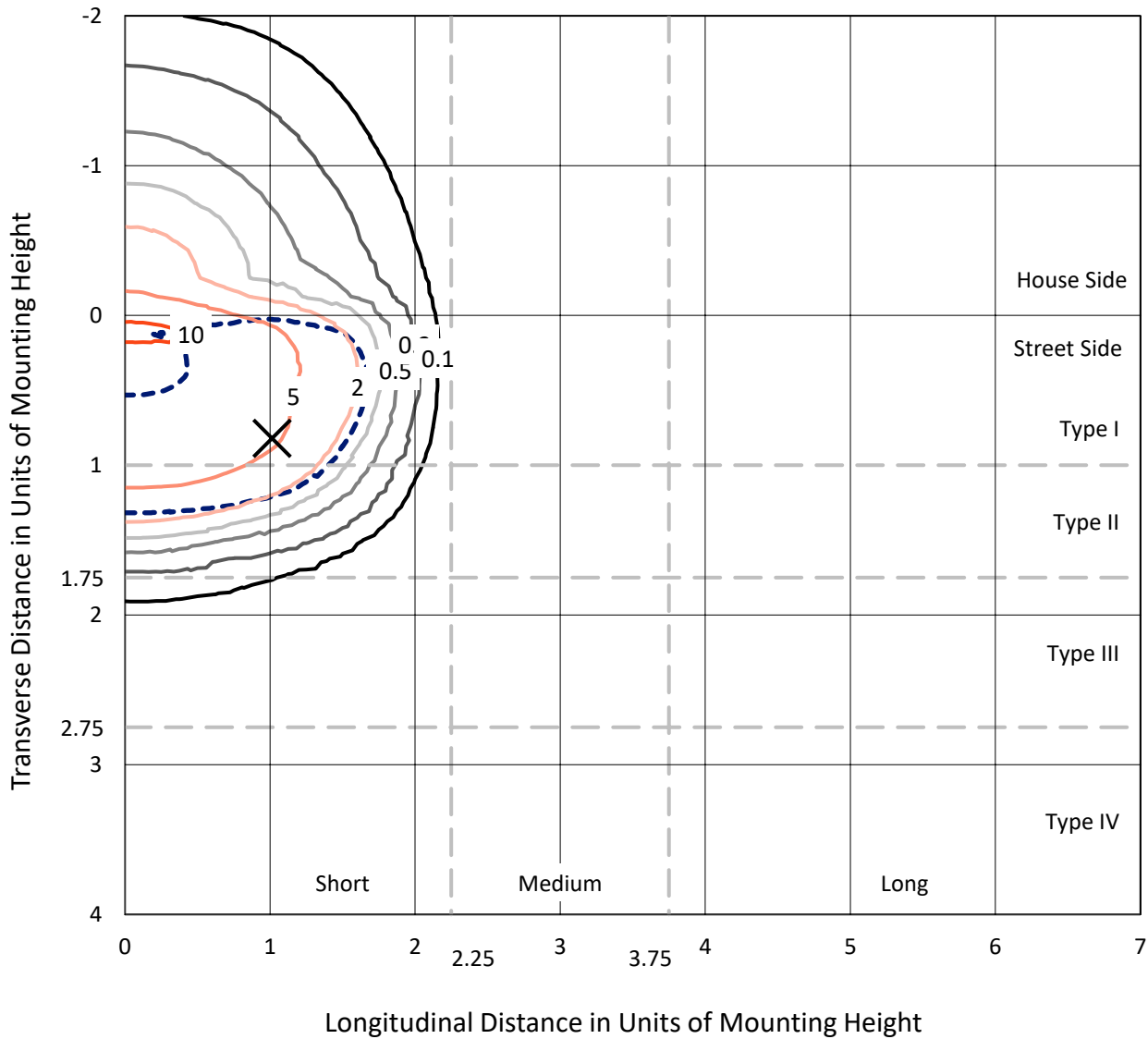


REPORT NUMBER: P634723

CATALOG NUMBER: GWS-SA3C-735-U-AFL-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

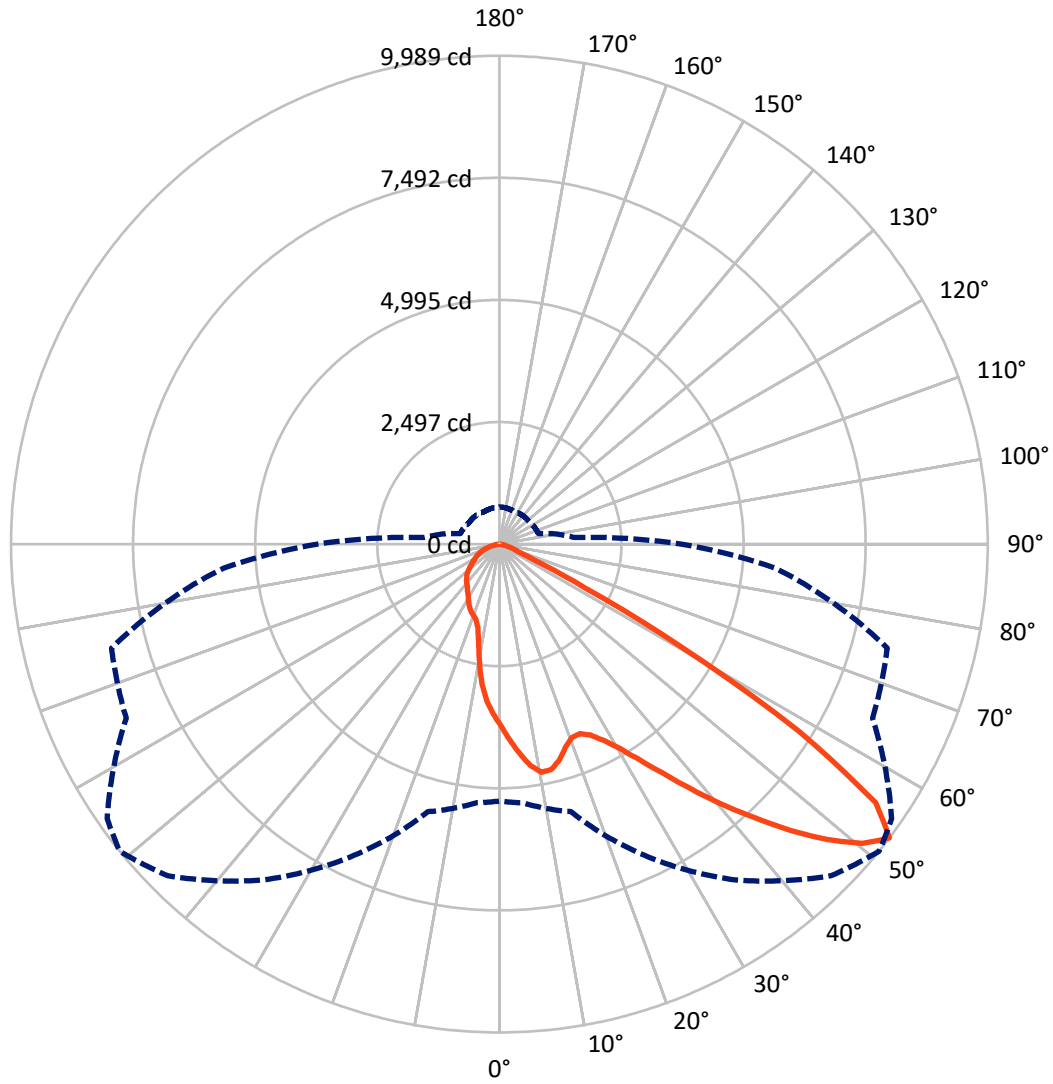
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P634723  
CATALOG NUMBER: GWS-SA3C-735-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P634723

CATALOG NUMBER: GWS-SA3C-735-U-AFL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2431.9	0.0	2431.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	10049.7	0.0	10049.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	12481.6	0.0	12481.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.8	2.8
10°-20°	901.1	7.2
20°-30°	1465.1	11.7
30°-40°	2321.9	18.6
40°-50°	3501.9	28.1
50°-60°	3029.4	24.3
60°-70°	686.8	5.5
70°-80°	202.5	1.6
80°-90°	26.1	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°	12481.6	100.0
0°-180°	12481.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P634723

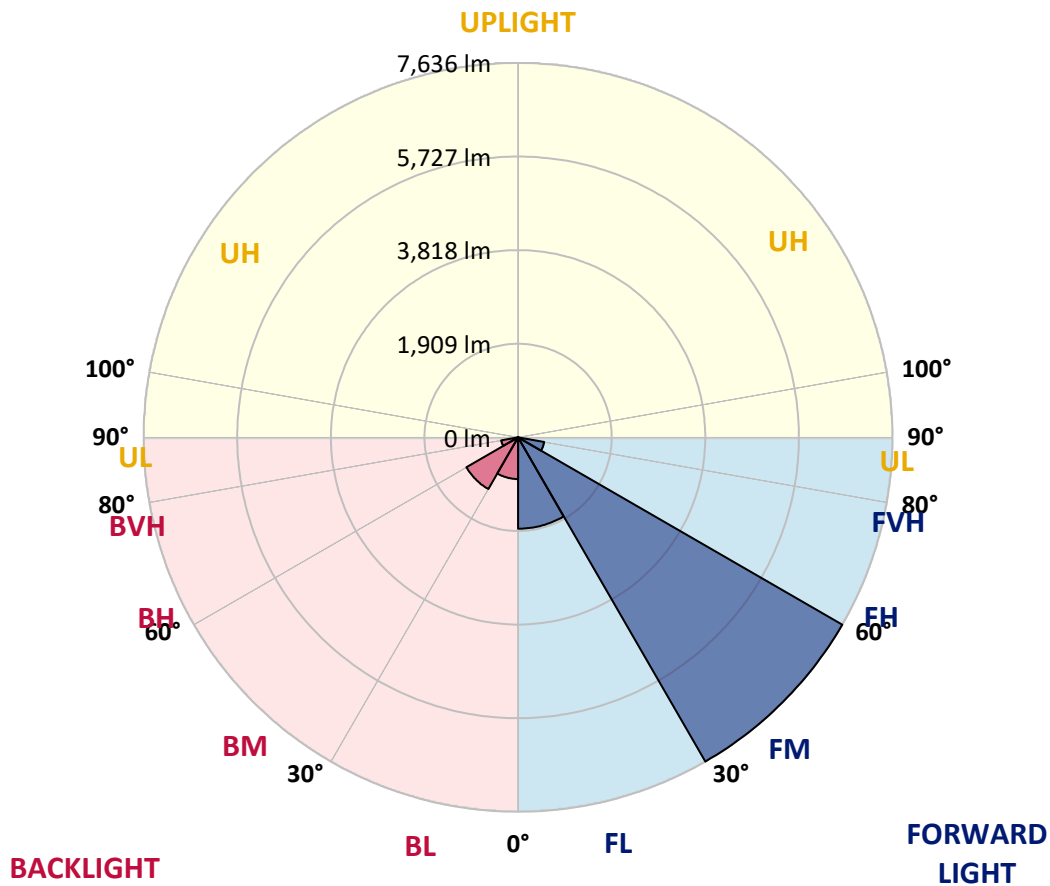
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.9	14.9			
FM (30°-60°)	7636.4	61.2			
FH (60°-80°)	540.5	4.3			G0/660
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	850.1	6.8	B2/1000		
BM (30°-60°)	1216.8	9.7	B2/2500		
BH (60°-80°)	348.8	2.8	B1/500		G1/500
BVH (80°-90°)	16.3	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





REPORT NUMBER: P634723

CATALOG NUMBER: GWS-SA3C-735-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4
2.5°	4141.5	4165.2	4128.7	4114.9	4092.2	4052.7	4007.4	3994.5	3896.9	3832.8	3760.8
5°	4557.7	4570.5	4540.9	4511.4	4455.1	4385.1	4297.3	4278.6	4101.1	3954.1	3801.2
7.5°	4650.4	4645.5	4671.1	4687.9	4681.0	4653.4	4575.5	4539.0	4326.9	4094.1	3868.3
10°	4283.5	4255.9	4350.6	4463.0	4598.2	4754.0	4745.1	4742.2	4557.7	4282.5	3954.1
12.5°	3797.3	3783.5	3860.4	4001.4	4256.9	4602.1	4731.3	4831.9	4765.8	4462.0	4049.8
15°	3519.1	3514.2	3566.5	3668.1	3871.2	4307.2	4583.4	4782.6	4944.3	4654.4	4151.4
17.5°	3468.8	3471.8	3489.5	3547.7	3693.7	4052.7	4372.3	4650.4	5083.4	4865.4	4278.6
20°	3615.8	3635.5	3604.9	3613.8	3692.7	3961.0	4228.3	4517.3	5172.2	5077.5	4415.7
22.5°	3942.3	3935.4	3868.3	3828.8	3829.8	4017.2	4212.5	4455.1	5230.4	5283.6	4540.0
25°	4312.1	4304.2	4224.3	4136.6	4081.3	4170.1	4325.9	4521.2	5282.6	5472.0	4639.6
27.5°	4749.1	4724.4	4635.6	4523.2	4400.9	4439.4	4544.9	4699.7	5363.5	5657.4	4705.7
30°	5172.2	5200.8	5073.5	4940.4	4811.2	4787.5	4848.7	4988.7	5528.2	5874.4	4784.6
32.5°	5733.4	5723.5	5582.5	5408.9	5224.5	5206.7	5255.0	5383.2	5824.1	6174.3	4904.9
35°	6413.0	6414.9	6214.7	5980.0	5717.6	5670.3	5751.1	5875.4	6265.0	6580.6	5095.2
37.5°	7119.1	7116.2	6941.6	6675.3	6317.3	6250.2	6342.9	6435.6	6816.3	7133.9	5391.1
40°	7614.3	7634.0	7552.1	7412.1	7072.8	6909.1	6990.9	7055.0	7416.0	7784.9	5780.7
42.5°	7895.4	7925.0	7942.7	8026.5	7848.0	7673.4	7643.9	7677.4	7951.6	8389.5	6146.6
45°	7955.5	7995.0	8124.2	8434.9	8503.9	8454.6	8357.9	8277.1	8351.0	8818.5	6386.3
47.5°	7690.2	7759.3	8035.4	8578.9	8982.3	9137.1	9029.6	8906.3	8581.8	8929.0	6361.7
50°	6638.8	6719.7	7342.1	8285.0	9050.3	9614.5	9624.4	9441.9	8554.2	8610.4	6052.0
52.5°	5256.0	5311.2	5667.3	7023.5	8382.6	9594.8	9989.3	9794.0	8421.1	8212.0	5664.3
55°	3141.4	3230.1	3562.5	4633.7	6530.3	8503.9	9344.2	9438.9	8356.0	7877.6	5400.0
57.5°	1060.3	1103.7	1421.3	2046.6	3848.6	6226.5	7219.7	7604.4	7585.7	7366.7	4884.2
60°	505.0	514.9	579.0	776.2	1540.6	3253.8	4273.7	4717.5	5121.9	5162.3	3038.8
62.5°	384.7	390.6	423.1	465.5	619.4	1371.0	1958.8	2298.1	2454.9	2106.7	1106.6
65°	321.5	326.5	351.1	377.8	421.2	593.8	751.6	867.0	781.2	608.5	527.7
67.5°	268.3	272.2	291.0	319.6	349.2	397.5	417.2	429.0	449.8	505.0	485.3
70°	210.1	214.0	233.8	258.4	287.0	298.9	317.6	329.4	370.9	441.9	439.9
72.5°	161.8	166.7	177.5	193.3	217.0	228.8	249.5	263.3	287.0	344.2	367.9
75°	118.4	121.3	131.2	136.1	139.1	136.1	156.8	172.6	204.2	225.9	231.8
77.5°	48.3	54.2	52.3	52.3	62.1	75.0	85.8	95.7	117.4	130.2	131.2
80°	19.7	21.7	25.6	28.6	34.5	44.4	51.3	55.2	65.1	73.0	78.9
82.5°	11.8	12.8	14.8	15.8	19.7	25.6	29.6	32.5	40.4	48.3	51.3
85°	5.9	5.9	6.9	7.9	9.9	11.8	13.8	15.8	20.7	25.6	28.6
87.5°	1.0	1.0	1.0	2.0	3.0	3.9	4.9	5.9	6.9	7.9	9.9
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: P634723

CATALOG NUMBER: GWS-SA3C-735-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4	3716.4
2.5°	3718.4	3665.1	3603.0	3553.7	3496.4	3454.0	3393.9	3356.4	3320.9	3291.3	3269.6
5°	3722.3	3632.6	3503.4	3388.9	3270.6	3158.1	3042.7	2949.1	2865.2	2795.2	2789.3
7.5°	3745.0	3615.8	3413.6	3213.4	2982.6	2759.7	2536.8	2355.3	2217.2	2145.2	2130.4
10°	3783.5	3613.8	3321.9	3002.3	2608.8	2249.8	1985.4	1847.3	1767.5	1738.9	1729.0
12.5°	3823.9	3608.9	3204.5	2704.4	2158.0	1843.4	1698.4	1681.6	1696.4	1698.4	1697.4
15°	3873.2	3605.9	3056.6	2355.3	1828.6	1655.0	1664.9	1700.4	1734.9	1742.8	1742.8
17.5°	3933.4	3599.0	2855.4	2014.0	1622.5	1618.5	1670.8	1718.1	1750.7	1756.6	1756.6
20°	3996.5	3581.3	2607.8	1735.9	1538.6	1595.8	1652.1	1688.6	1711.2	1719.1	1720.1
22.5°	4039.9	3533.9	2322.7	1529.8	1486.4	1552.4	1592.9	1630.4	1630.4	1610.6	1604.7
25°	4048.8	3432.3	2014.0	1388.7	1424.2	1485.4	1526.8	1505.1	1464.7	1448.9	1447.9
27.5°	4016.2	3284.4	1709.3	1288.1	1349.3	1410.4	1403.5	1371.9	1354.2	1338.4	1344.3
30°	3976.8	3106.9	1444.9	1205.3	1262.5	1322.6	1299.0	1288.1	1275.3	1257.5	1261.5
32.5°	3950.1	2908.6	1241.8	1141.2	1204.3	1214.1	1230.9	1229.9	1218.1	1184.6	1182.6
35°	3958.0	2708.4	1105.6	1088.9	1155.9	1152.0	1183.6	1177.6	1095.8	1049.4	1046.5
37.5°	4021.2	2516.1	1025.8	1047.5	1079.0	1103.7	1131.3	1060.3	1031.7	1002.1	1004.1
40°	4141.5	2337.5	982.4	1024.8	1032.7	1069.2	1005.0	1004.1	991.2	964.6	963.6
42.5°	4277.6	2186.6	952.8	1013.9	1003.1	1010.0	941.9	949.8	948.8	932.1	927.1
45°	4360.5	2047.6	929.1	973.5	976.4	907.4	886.7	895.6	900.5	891.6	890.6
47.5°	4274.6	1887.8	904.4	911.3	937.0	861.0	835.4	836.4	845.3	846.2	842.3
50°	4034.0	1709.3	874.9	858.1	841.3	812.7	789.0	784.1	793.0	801.9	804.8
52.5°	3723.3	1538.6	825.5	799.9	760.4	760.4	749.6	733.8	745.6	757.5	761.4
55°	3495.5	1412.4	755.5	726.9	683.5	698.3	696.3	682.5	698.3	707.2	710.1
57.5°	3028.9	1135.2	664.8	655.9	619.4	637.2	641.1	623.3	615.5	617.4	620.4
60°	1798.0	732.8	599.7	598.7	566.1	586.9	598.7	580.9	557.3	560.2	564.2
62.5°	806.8	560.2	517.8	513.9	512.9	539.5	552.3	535.6	502.0	505.0	508.9
65°	507.9	484.3	449.8	449.8	465.5	488.2	498.1	484.3	445.8	440.9	444.8
67.5°	471.5	450.7	415.2	408.3	416.2	435.0	435.9	409.3	386.6	382.7	382.7
70°	423.1	407.3	372.8	359.0	356.1	355.1	352.1	345.2	330.4	326.5	328.4
72.5°	350.1	339.3	317.6	302.8	294.9	293.9	282.1	276.2	263.3	261.4	260.4
75°	231.8	234.7	234.7	232.8	225.9	222.9	210.1	204.2	189.4	183.5	182.5
77.5°	137.1	140.1	144.0	145.0	144.0	144.0	132.2	125.3	110.5	102.6	100.6
80°	83.8	85.8	87.8	90.7	86.8	83.8	73.0	66.1	59.2	54.2	53.3
82.5°	54.2	56.2	57.2	59.2	57.2	53.3	44.4	40.4	35.5	31.6	30.6
85°	30.6	31.6	33.5	33.5	30.6	27.6	22.7	19.7	16.8	14.8	14.8
87.5°	10.8	10.8	10.8	11.8	9.9	8.9	5.9	3.9	3.0	3.0	3.0
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)