

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: P639267

Luminaire Tested: GWS-SA5B-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15154.7 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

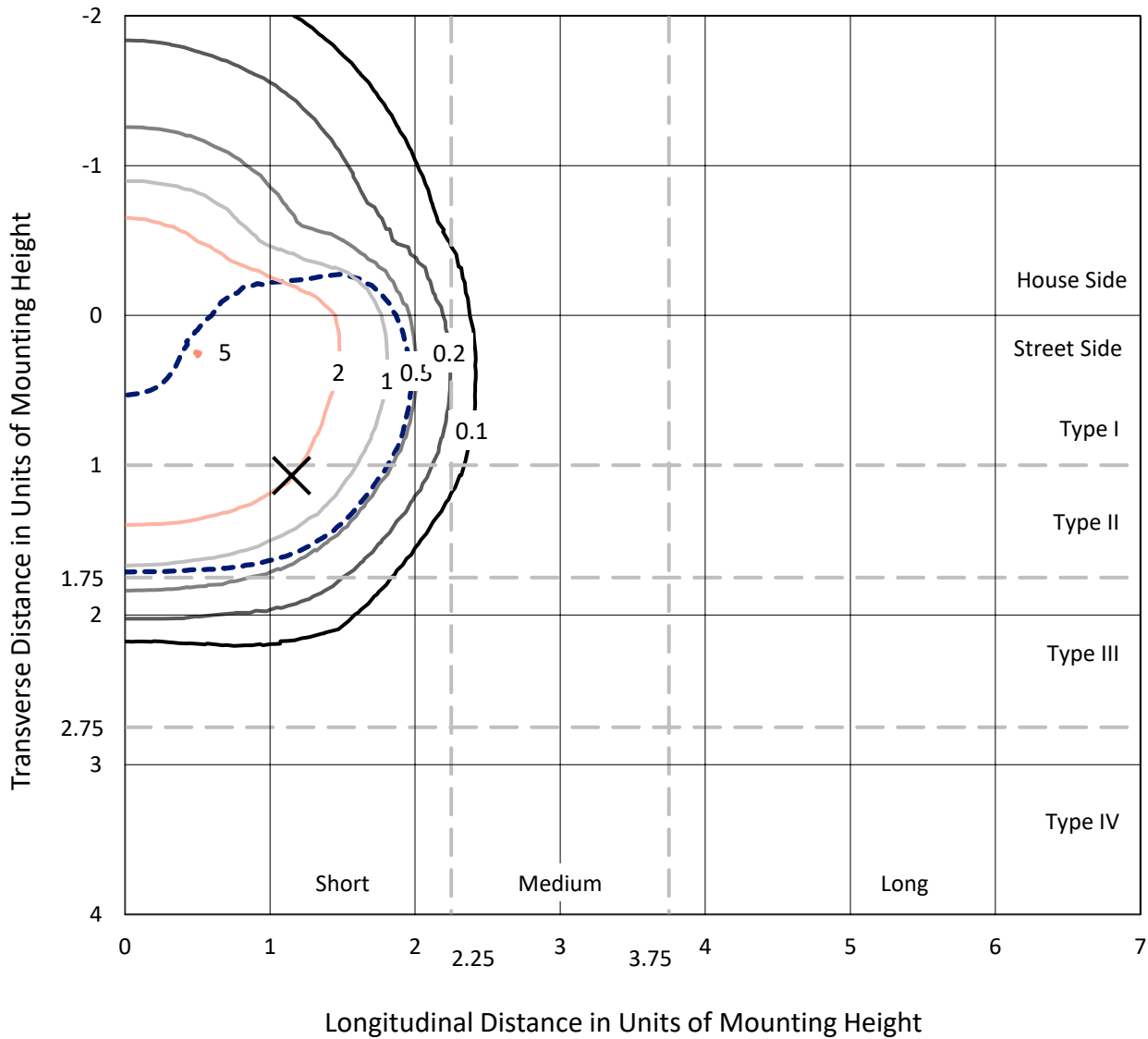
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

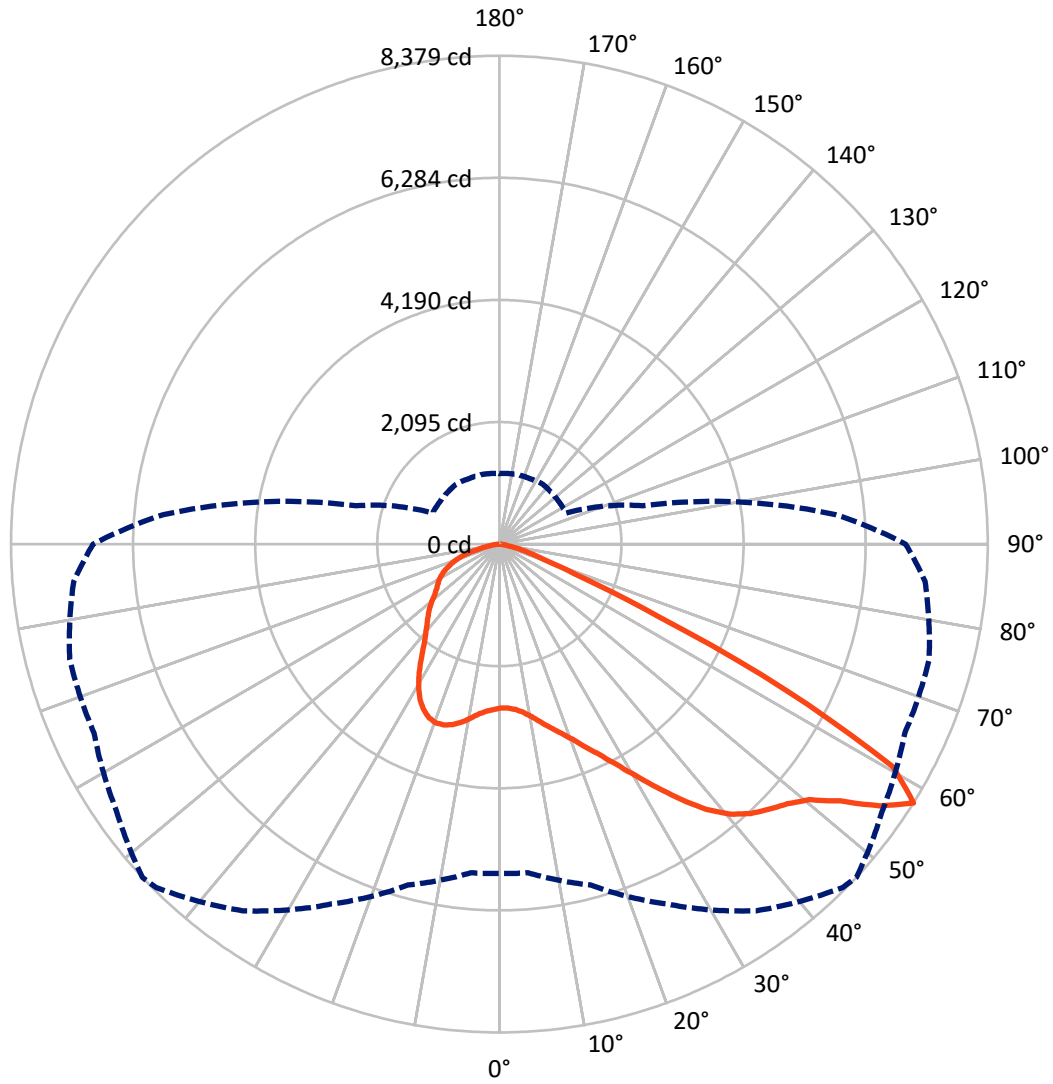
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4796.4	0.0	4796.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10358.3	0.0	10358.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	15154.7	0.0	15154.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	1.8
10°-20°	911.7	6.0
20°-30°	1641.7	10.8
30°-40°	2479.5	16.4
40°-50°	3339.0	22.0
50°-60°	4012.3	26.5
60°-70°	1954.0	12.9
70°-80°	481.4	3.2
80°-90°	57.9	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°	15154.7	100.0
0°-180°	15154.7	100.0

Coefficient of Utilization



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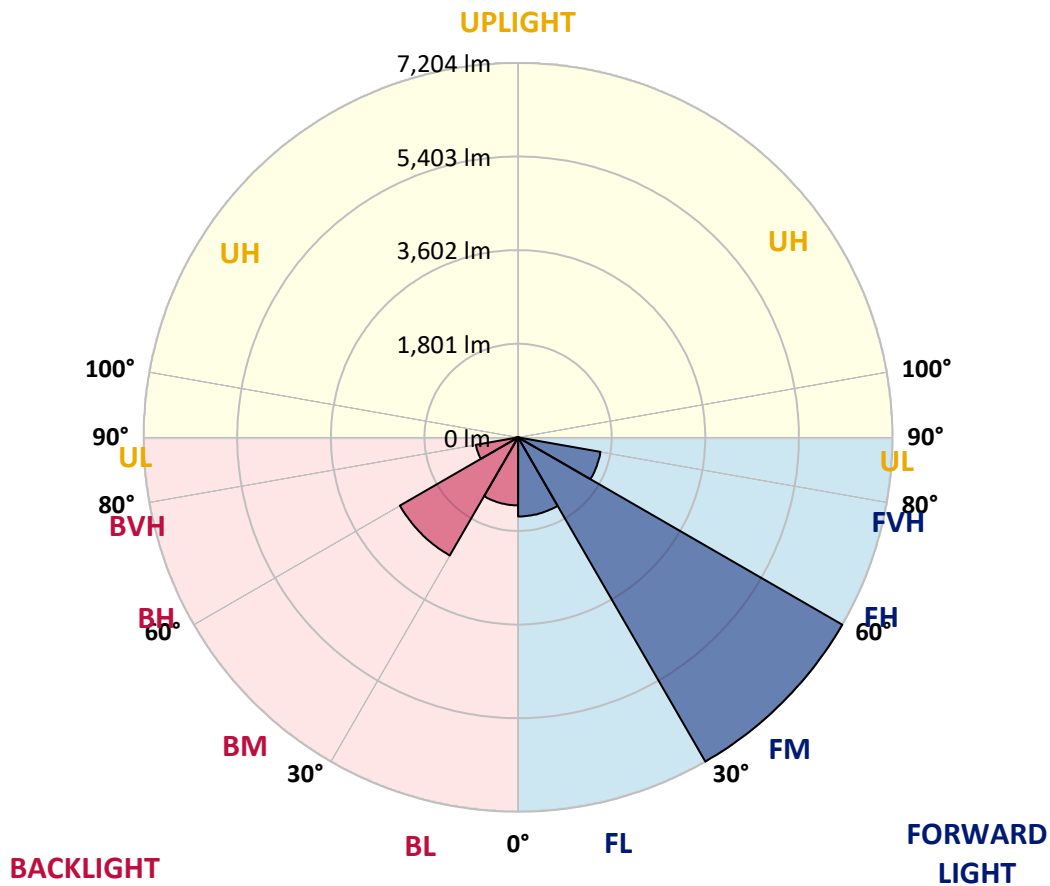
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.2	10.0			
FM (30°-60°)	7203.8	47.5			
FH (60°-80°)	1610.5	10.6			G1/1800
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	1308.4	8.6	B3/2500		
BM (30°-60°)	2627.0	17.3	B3/5000		
BH (60°-80°)	825.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.1	0.2			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°	47°	55°	65°	75°	85°
0°	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5
2.5°	2805.4	2804.1	2804.1	2811.7	2811.7	2814.3	2818.1	2821.9	2823.2	2816.8	2802.8
5°	2835.9	2835.9	2835.9	2842.3	2842.3	2844.8	2849.9	2851.2	2849.9	2839.7	2825.7
7.5°	2884.3	2884.3	2885.6	2893.2	2899.6	2903.4	2912.3	2911.0	2907.2	2890.7	2872.8
10°	2963.2	2967.0	2970.8	2979.8	2992.5	3001.4	3007.8	3007.8	3002.7	2977.2	2954.3
12.5°	3075.2	3080.3	3084.1	3091.8	3101.9	3117.2	3131.2	3131.2	3124.9	3093.0	3058.7
15°	3206.3	3211.4	3210.1	3212.7	3231.8	3253.4	3264.9	3272.5	3275.1	3230.5	3177.0
17.5°	3356.5	3361.6	3356.5	3348.9	3351.4	3385.8	3406.2	3434.2	3450.7	3390.9	3305.6
20°	3492.7	3487.6	3487.6	3492.7	3500.3	3542.4	3572.9	3618.7	3639.1	3566.5	3434.2
22.5°	3636.5	3648.0	3642.9	3642.9	3673.5	3743.5	3780.4	3840.2	3861.8	3767.6	3589.4
25°	3822.4	3832.6	3830.0	3832.6	3868.2	3967.5	4004.4	4115.1	4136.8	4001.9	3761.3
27.5°	4026.0	4042.6	4050.2	4047.7	4105.0	4234.8	4280.6	4434.6	4474.1	4264.1	3944.6
30°	4290.8	4308.6	4315.0	4312.4	4379.9	4556.8	4609.0	4784.7	4840.7	4574.6	4177.5
32.5°	4597.5	4615.4	4634.5	4642.1	4728.7	4909.4	4984.5	5166.5	5246.7	4933.6	4458.8
35°	4901.8	4917.0	4953.9	5013.8	5132.1	5316.7	5382.9	5562.4	5640.0	5306.5	4798.7
37.5°	5237.8	5248.0	5279.8	5362.5	5533.1	5708.7	5774.9	5946.8	5955.7	5666.7	5183.1
40°	5605.6	5605.6	5599.3	5680.7	5858.9	6035.9	6093.2	6192.4	6140.2	5944.2	5557.3
42.5°	5917.5	5912.4	5917.5	5993.9	6126.2	6270.1	6319.7	6300.6	6234.4	6156.8	5895.9
45°	6198.8	6202.6	6248.4	6307.0	6375.7	6461.0	6490.3	6382.1	6322.3	6327.4	6167.0
47.5°	6389.7	6393.5	6500.5	6598.5	6640.5	6667.2	6654.5	6504.3	6473.7	6531.0	6375.7
50°	6415.2	6435.5	6620.1	6821.2	6925.6	6929.4	6893.8	6710.5	6701.6	6766.5	6487.7
52.5°	6420.3	6440.6	6671.0	7033.8	7304.9	7362.2	7321.5	7130.5	7037.6	6972.7	6625.2
55°	6401.2	6424.1	6678.7	7176.3	7695.7	7924.8	7928.6	7658.8	7362.2	7318.9	7017.2
57.5°	5651.5	5660.4	6055.0	6813.6	7680.4	8329.6	8379.2	8012.6	7674.0	7633.3	7331.6
60°	3936.9	3972.6	4401.5	5403.3	6452.1	7596.4	7756.8	7649.9	7423.3	7126.7	6290.4
62.5°	1971.7	2002.2	2432.4	3379.4	4449.9	5353.6	5525.5	5638.7	5692.2	5374.0	4283.2
65°	849.0	871.9	1139.2	1765.4	2519.0	2955.6	3015.4	3151.6	3485.1	3109.6	2307.7
67.5°	567.7	583.0	719.2	1076.8	1484.1	1512.2	1503.2	1532.5	1605.1	1325.0	1042.5
70°	435.3	448.0	539.7	789.2	1066.7	912.6	864.3	784.1	851.5	868.1	845.2
72.5°	315.7	325.9	394.6	538.4	668.2	583.0	575.3	616.1	707.7	733.2	719.2
75°	203.7	208.7	250.8	295.3	344.9	374.2	389.5	463.3	556.2	575.3	558.8
77.5°	136.2	140.0	164.2	189.7	196.0	197.3	202.4	235.5	299.1	334.8	330.9
80°	71.3	71.3	80.2	80.2	91.6	109.5	114.6	136.2	165.5	183.3	184.6
82.5°	28.0	29.3	34.4	38.2	45.8	56.0	59.8	71.3	86.6	99.3	110.7
85°	11.5	12.7	14.0	16.5	20.4	25.5	26.7	30.5	40.7	50.9	57.3
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	3.8	5.1	6.4	11.5	15.3
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°	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5	2810.5
2.5°	2819.4	2802.8	2819.4	2824.5	2838.5	2843.6	2834.6	2833.4	2833.4	2820.6	2816.8
5°	2838.5	2823.2	2839.7	2847.4	2867.7	2880.5	2883.0	2893.2	2899.6	2894.5	2893.2
7.5°	2885.6	2866.5	2884.3	2895.7	2922.5	2942.8	2951.7	2974.7	2991.2	2988.7	2987.4
10°	2968.3	2942.8	2963.2	2982.3	3011.6	3035.8	3037.0	3049.8	3066.3	3061.2	3058.7
12.5°	3063.8	3039.6	3062.5	3081.6	3115.9	3126.1	3109.6	3104.5	3107.0	3100.7	3095.6
15°	3180.9	3146.5	3166.9	3188.5	3207.6	3196.1	3160.5	3146.5	3145.2	3136.3	3131.2
17.5°	3298.0	3254.7	3270.0	3281.4	3272.5	3236.9	3192.3	3168.1	3156.7	3138.9	3133.8
20°	3413.8	3359.1	3356.5	3347.6	3306.9	3242.0	3182.1	3133.8	3104.5	3080.3	3071.4
22.5°	3546.2	3469.8	3431.6	3390.9	3301.8	3196.1	3105.8	3037.0	2989.9	2959.4	2949.2
25°	3688.7	3580.5	3501.6	3420.2	3250.9	3098.1	2972.1	2877.9	2821.9	2788.8	2777.4
27.5°	3830.0	3681.1	3562.7	3424.0	3149.0	2956.8	2787.5	2660.3	2604.3	2577.5	2568.6
30°	4020.9	3814.7	3635.3	3374.3	3015.4	2760.8	2549.5	2421.0	2384.1	2365.0	2357.3
32.5°	4241.1	3984.0	3732.0	3270.0	2844.8	2531.7	2309.0	2219.9	2194.4	2157.5	2156.2
35°	4531.4	4225.9	3823.7	3115.9	2629.7	2286.0	2124.4	2060.8	2014.9	1956.4	1951.3
37.5°	4869.9	4527.5	3873.3	2919.9	2379.0	2083.7	1986.9	1915.6	1841.8	1764.2	1754.0
40°	5220.0	4880.1	3877.1	2688.3	2133.3	1950.0	1868.5	1775.6	1684.0	1597.4	1586.0
42.5°	5587.8	5208.5	3809.7	2421.0	1932.2	1834.2	1751.4	1634.3	1531.2	1472.7	1466.3
45°	5916.2	5473.3	3656.9	2139.7	1783.3	1737.4	1631.8	1505.8	1451.1	1409.0	1400.1
47.5°	6174.6	5648.9	3450.7	1887.6	1662.3	1638.2	1500.7	1435.8	1393.8	1355.6	1346.7
50°	6301.9	5688.4	3182.1	1682.7	1550.3	1521.1	1426.9	1377.2	1349.2	1318.7	1311.0
52.5°	6459.7	5732.9	2950.5	1510.9	1440.9	1401.4	1365.8	1326.3	1305.9	1286.9	1280.5
55°	6822.5	5900.9	2828.3	1373.4	1336.5	1318.7	1313.6	1280.5	1274.1	1261.4	1249.9
57.5°	6970.1	5792.8	2539.3	1261.4	1253.8	1256.3	1269.0	1238.5	1232.1	1216.8	1209.2
60°	5605.6	4378.6	1719.6	1164.7	1185.0	1201.6	1214.3	1183.8	1174.8	1172.3	1162.1
62.5°	3592.0	2693.4	1200.3	1074.3	1104.8	1125.2	1132.8	1103.6	1097.2	1117.6	1118.8
65°	1869.8	1467.6	973.7	977.6	1003.0	1033.6	1048.8	1038.6	1036.1	1057.7	1059.0
67.5°	954.6	897.4	849.0	863.0	883.4	922.8	958.5	1003.0	1018.3	1020.8	1022.1
70°	813.4	787.9	763.7	772.6	794.3	815.9	850.3	871.9	846.4	840.1	837.5
72.5°	692.4	673.3	661.9	672.1	683.5	679.7	669.5	679.7	683.5	684.8	686.1
75°	538.4	524.4	515.5	516.8	516.8	502.8	483.7	472.2	459.5	449.3	449.3
77.5°	329.7	332.2	341.1	339.9	338.6	333.5	314.4	304.2	273.7	264.8	264.8
80°	188.4	192.2	201.1	203.7	203.7	197.3	178.2	166.7	152.7	146.4	145.1
82.5°	114.6	119.6	124.7	127.3	128.6	120.9	104.4	95.5	87.8	81.5	81.5
85°	59.8	62.4	67.5	68.7	64.9	57.3	48.4	44.5	36.9	35.6	35.6
87.5°	16.5	17.8	20.4	16.5	15.3	11.5	6.4	5.1	2.5	1.3	1.3
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)