

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: P639212

Luminaire Tested: GWS-SA5B-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639212
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14947 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

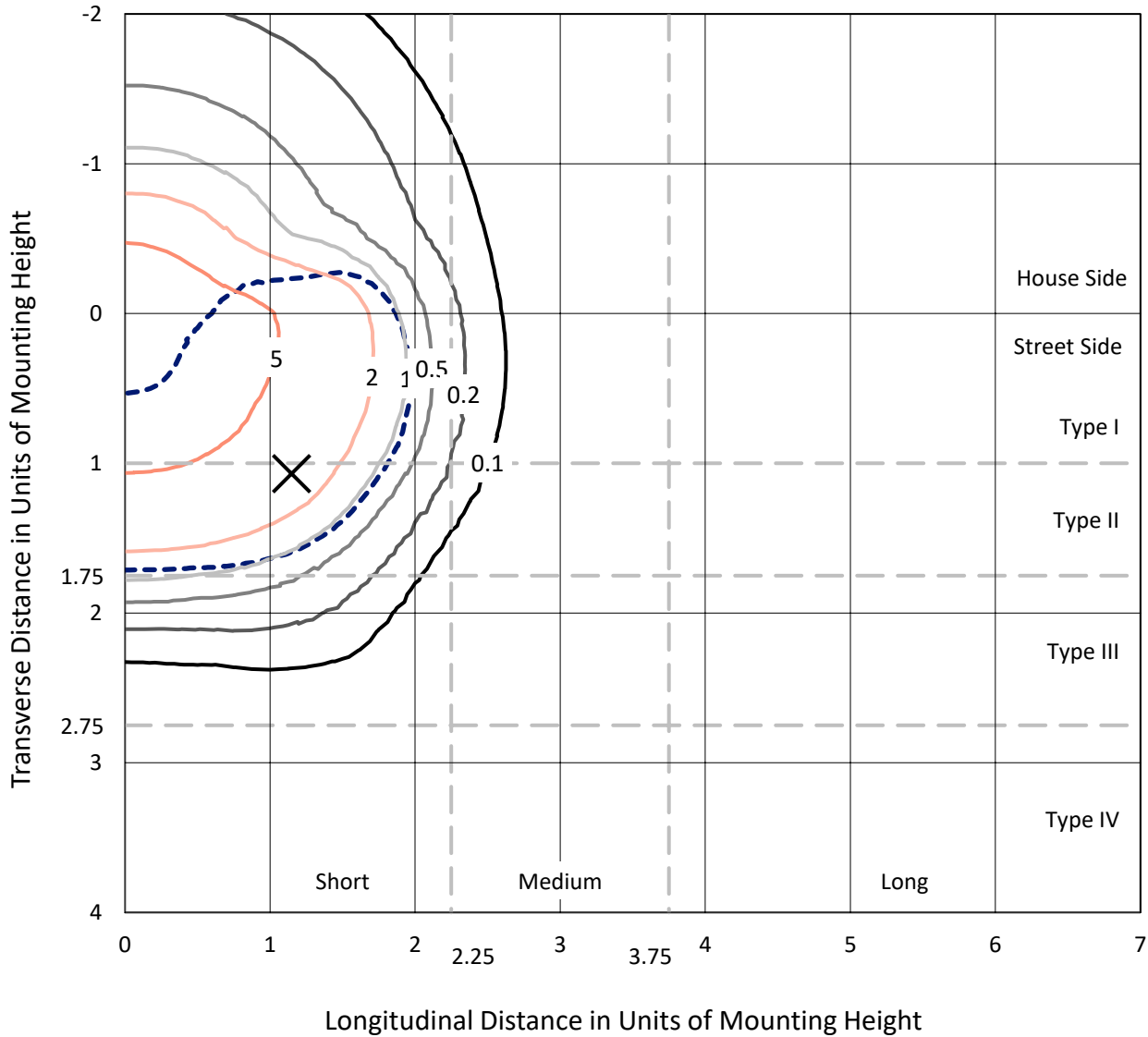
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

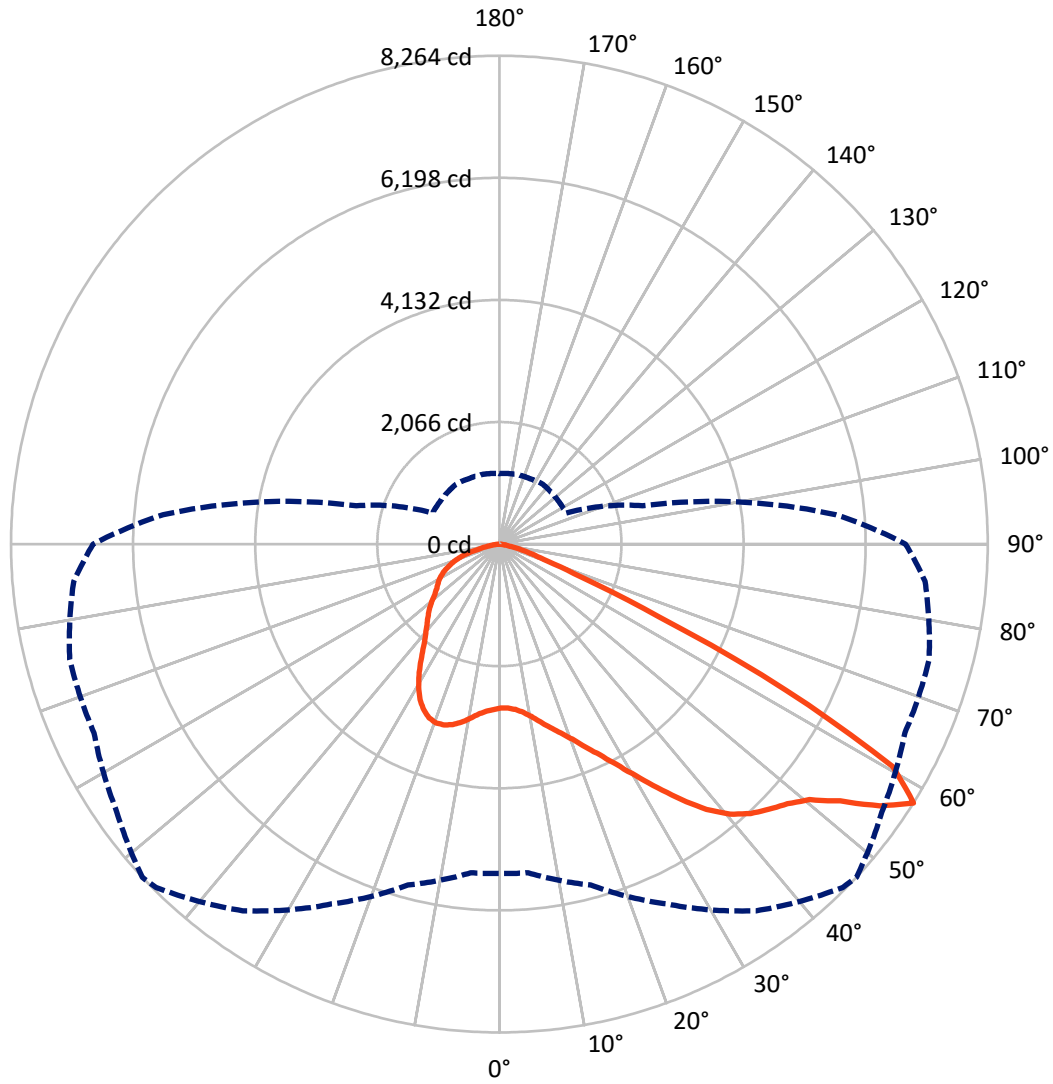
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 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	4730.7	0.0	4730.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10216.3	0.0	10216.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	14947.0	0.0	14947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	1.8
10°-20°	899.2	6.0
20°-30°	1619.2	10.8
30°-40°	2445.6	16.4
40°-50°	3293.2	22.0
50°-60°	3957.3	26.5
60°-70°	1927.3	12.9
70°-80°	474.8	3.2
80°-90°	57.1	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°	14947.0	100.0
0°-180°	14947.0	100.0

Coefficient of Utilization



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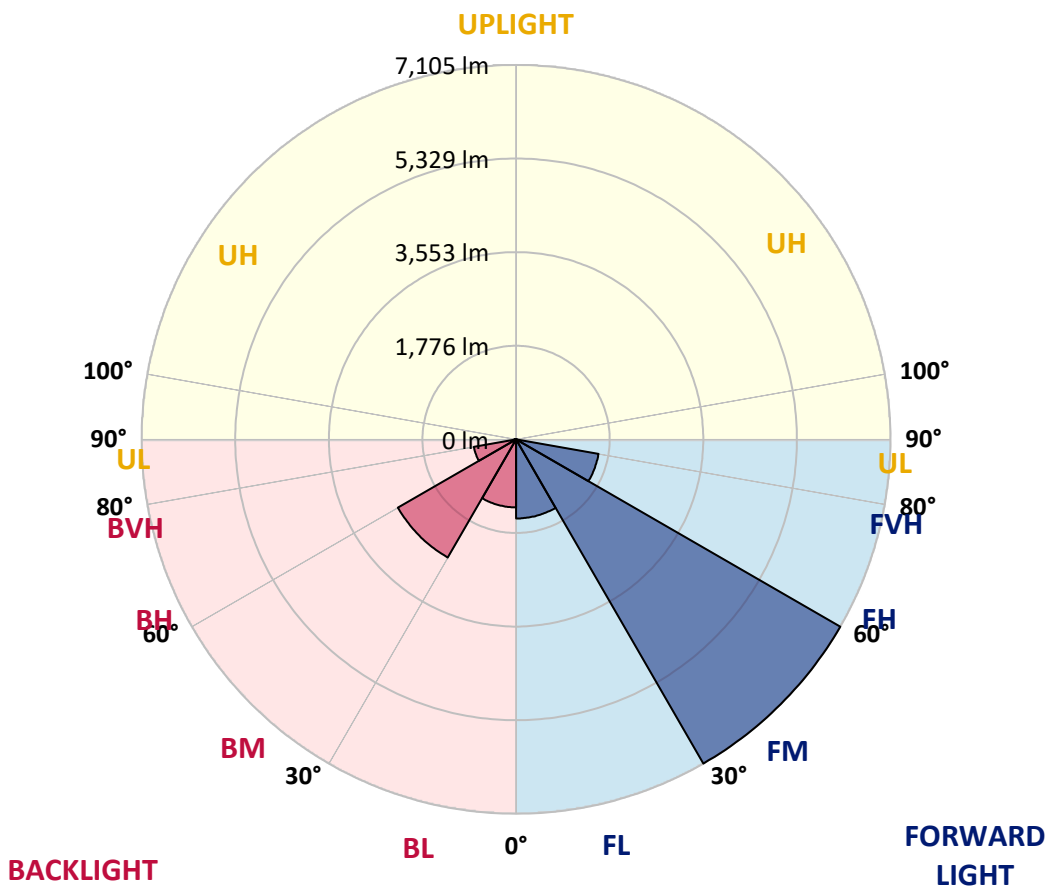
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.3	10.0			
FM (30°-60°)	7105.1	47.5			
FH (60°-80°)	1588.4	10.6			G1/1800
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	1290.4	8.6	B3/2500		
BM (30°-60°)	2591.0	17.3	B3/5000		
BH (60°-80°)	813.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	35.6	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°	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9
2.5°	2766.9	2765.7	2765.7	2773.2	2773.2	2775.7	2779.5	2783.2	2784.5	2778.2	2764.4
5°	2797.1	2797.1	2797.1	2803.3	2803.3	2805.8	2810.9	2812.1	2810.9	2800.8	2787.0
7.5°	2844.8	2844.8	2846.0	2853.5	2859.8	2863.6	2872.4	2871.1	2867.4	2851.0	2833.5
10°	2922.6	2926.4	2930.1	2938.9	2951.5	2960.3	2966.5	2966.5	2961.5	2936.4	2913.8
12.5°	3033.1	3038.1	3041.9	3049.4	3059.4	3074.5	3088.3	3088.3	3082.0	3050.6	3016.7
15°	3162.4	3167.4	3166.1	3168.7	3187.5	3208.8	3220.1	3227.7	3230.2	3186.2	3133.5
17.5°	3310.5	3315.5	3310.5	3303.0	3305.5	3339.4	3359.5	3387.1	3403.4	3344.4	3260.3
20°	3444.8	3439.8	3439.8	3444.8	3452.4	3493.8	3523.9	3569.1	3589.2	3517.7	3387.1
22.5°	3586.7	3598.0	3593.0	3593.0	3623.1	3692.2	3728.6	3787.6	3808.9	3716.0	3540.3
25°	3770.0	3780.0	3777.5	3780.0	3815.2	3913.1	3949.5	4058.7	4080.1	3947.0	3709.7
27.5°	3970.9	3987.2	3994.7	3992.2	4048.7	4176.7	4221.9	4373.8	4412.8	4205.6	3890.5
30°	4232.0	4249.6	4255.8	4253.3	4319.9	4494.4	4545.8	4719.1	4774.3	4511.9	4120.3
32.5°	4534.5	4552.1	4570.9	4578.5	4663.8	4842.1	4916.2	5095.7	5174.8	4866.0	4397.7
35°	4834.6	4849.6	4886.1	4945.1	5061.8	5243.8	5309.1	5486.1	5562.7	5233.8	4732.9
37.5°	5166.0	5176.1	5207.4	5289.0	5457.3	5630.5	5695.8	5865.3	5874.1	5589.1	5112.0
40°	5528.8	5528.8	5522.5	5602.9	5778.6	5953.1	6009.6	6107.6	6056.1	5862.8	5481.1
42.5°	5836.4	5831.4	5836.4	5911.7	6042.3	6184.1	6233.1	6214.3	6149.0	6072.4	5815.1
45°	6113.8	6117.6	6162.8	6220.6	6288.3	6372.5	6401.3	6294.6	6235.6	6240.6	6082.5
47.5°	6302.2	6305.9	6411.4	6508.0	6549.5	6575.8	6563.3	6415.1	6385.0	6441.5	6288.3
50°	6327.3	6347.3	6529.4	6727.7	6830.7	6834.4	6799.3	6618.5	6609.7	6673.8	6398.8
52.5°	6332.3	6352.4	6579.6	6937.4	7204.8	7261.3	7221.1	7032.8	6941.2	6877.1	6534.4
55°	6313.5	6336.0	6587.1	7078.0	7590.2	7816.2	7819.9	7553.8	7261.3	7218.6	6921.1
57.5°	5574.0	5582.8	5972.0	6720.2	7575.1	8215.4	8264.4	7902.8	7568.9	7528.7	7231.2
60°	3883.0	3918.1	4341.2	5329.2	6363.7	7492.3	7650.5	7545.0	7321.5	7029.0	6204.2
62.5°	1944.6	1974.8	2399.1	3333.1	4388.9	5280.2	5449.7	5561.5	5614.2	5300.3	4224.5
65°	837.4	860.0	1123.6	1741.3	2484.5	2915.1	2974.1	3108.4	3437.3	3067.0	2276.1
67.5°	559.9	575.0	709.3	1062.1	1463.8	1491.4	1482.6	1511.5	1583.1	1306.9	1028.2
70°	429.3	441.9	532.3	778.4	1052.0	900.1	852.4	773.3	839.9	856.2	833.6
72.5°	311.3	321.4	389.2	531.0	659.1	575.0	567.4	607.6	698.0	723.1	709.3
75°	200.9	205.9	247.3	291.3	340.2	369.1	384.2	457.0	548.6	567.4	551.1
77.5°	134.3	138.1	161.9	187.1	193.3	194.6	199.6	232.3	295.0	330.2	326.4
80°	70.3	70.3	79.1	79.1	90.4	108.0	113.0	134.3	163.2	180.8	182.0
82.5°	27.6	28.9	33.9	37.7	45.2	55.2	59.0	70.3	85.4	97.9	109.2
85°	11.3	12.6	13.8	16.3	20.1	25.1	26.4	30.1	40.2	50.2	56.5
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	3.8	5.0	6.3	11.3	15.1
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°	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9	2771.9
2.5°	2780.7	2764.4	2780.7	2785.8	2799.6	2804.6	2795.8	2794.5	2794.5	2782.0	2778.2
5°	2799.6	2784.5	2800.8	2808.3	2828.4	2841.0	2843.5	2853.5	2859.8	2854.8	2853.5
7.5°	2846.0	2827.2	2844.8	2856.1	2882.4	2902.5	2911.3	2933.9	2950.2	2947.7	2946.4
10°	2927.6	2902.5	2922.6	2941.4	2970.3	2994.2	2995.4	3008.0	3024.3	3019.3	3016.7
12.5°	3021.8	2997.9	3020.5	3039.3	3073.2	3083.3	3067.0	3061.9	3064.5	3058.2	3053.2
15°	3137.3	3103.4	3123.5	3144.8	3163.6	3152.3	3117.2	3103.4	3102.1	3093.3	3088.3
17.5°	3252.8	3210.1	3225.1	3236.4	3227.7	3192.5	3148.6	3124.7	3113.4	3095.8	3090.8
20°	3367.0	3313.0	3310.5	3301.7	3261.6	3197.5	3138.5	3090.8	3061.9	3038.1	3029.3
22.5°	3497.6	3422.2	3384.6	3344.4	3256.5	3152.3	3063.2	2995.4	2949.0	2918.8	2908.8
25°	3638.2	3531.5	3453.6	3373.3	3206.3	3055.7	2931.4	2838.5	2783.2	2750.6	2739.3
27.5°	3777.5	3630.6	3513.9	3377.0	3105.9	2916.3	2749.3	2623.8	2568.6	2542.2	2533.4
30°	3965.8	3762.5	3585.4	3328.1	2974.1	2723.0	2514.6	2387.8	2351.4	2332.5	2325.0
32.5°	4183.0	3929.4	3680.9	3225.1	2805.8	2497.0	2277.3	2189.4	2164.3	2127.9	2126.7
35°	4469.3	4168.0	3771.2	3073.2	2593.7	2254.7	2095.3	2032.5	1987.3	1929.6	1924.5
37.5°	4803.2	4465.5	3820.2	2879.9	2346.4	2055.1	1959.7	1889.4	1816.6	1740.0	1730.0
40°	5148.4	4813.2	3824.0	2651.4	2104.1	1923.3	1842.9	1751.3	1660.9	1575.5	1564.2
42.5°	5511.2	5137.1	3757.4	2387.8	1905.7	1809.0	1727.4	1611.9	1510.3	1452.5	1446.2
45°	5835.1	5398.3	3606.8	2110.3	1758.8	1713.6	1609.4	1485.1	1431.2	1389.7	1380.9
47.5°	6090.0	5571.5	3403.4	1861.8	1639.6	1615.7	1480.1	1416.1	1374.7	1337.0	1328.2
50°	6215.5	5610.4	3138.5	1659.7	1529.1	1500.2	1407.3	1358.4	1330.7	1300.6	1293.1
52.5°	6371.2	5654.4	2910.0	1490.2	1421.1	1382.2	1347.1	1308.1	1288.0	1269.2	1262.9
55°	6729.0	5820.1	2789.5	1354.6	1318.2	1300.6	1295.6	1262.9	1256.7	1244.1	1232.8
57.5°	6874.6	5713.4	2504.5	1244.1	1236.6	1239.1	1251.6	1221.5	1215.2	1200.2	1192.6
60°	5528.8	4318.6	1696.1	1148.7	1168.8	1185.1	1197.7	1167.5	1158.7	1156.2	1146.2
62.5°	3542.8	2656.4	1183.9	1059.6	1089.7	1109.8	1117.3	1088.4	1082.2	1102.2	1103.5
65°	1844.2	1447.5	960.4	964.2	989.3	1019.4	1034.5	1024.4	1021.9	1043.2	1044.5
67.5°	941.6	885.1	837.4	851.2	871.3	910.2	945.3	989.3	1004.3	1006.8	1008.1
70°	802.2	777.1	753.2	762.0	783.4	804.7	838.6	860.0	834.8	828.6	826.1
72.5°	682.9	664.1	652.8	662.9	674.2	670.4	660.3	670.4	674.2	675.4	676.7
75°	531.0	517.2	508.4	509.7	509.7	495.9	477.1	465.8	453.2	443.2	443.2
77.5°	325.2	327.7	336.4	335.2	333.9	328.9	310.1	300.0	269.9	261.1	261.1
80°	185.8	189.6	198.4	200.9	200.9	194.6	175.8	164.5	150.6	144.4	143.1
82.5°	113.0	118.0	123.0	125.5	126.8	119.3	102.9	94.2	86.6	80.3	80.3
85°	59.0	61.5	66.5	67.8	64.0	56.5	47.7	43.9	36.4	35.2	35.2
87.5°	16.3	17.6	20.1	16.3	15.1	11.3	6.3	5.0	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)