

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: P636710

Luminaire Tested: GWS-SA4B-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12159 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

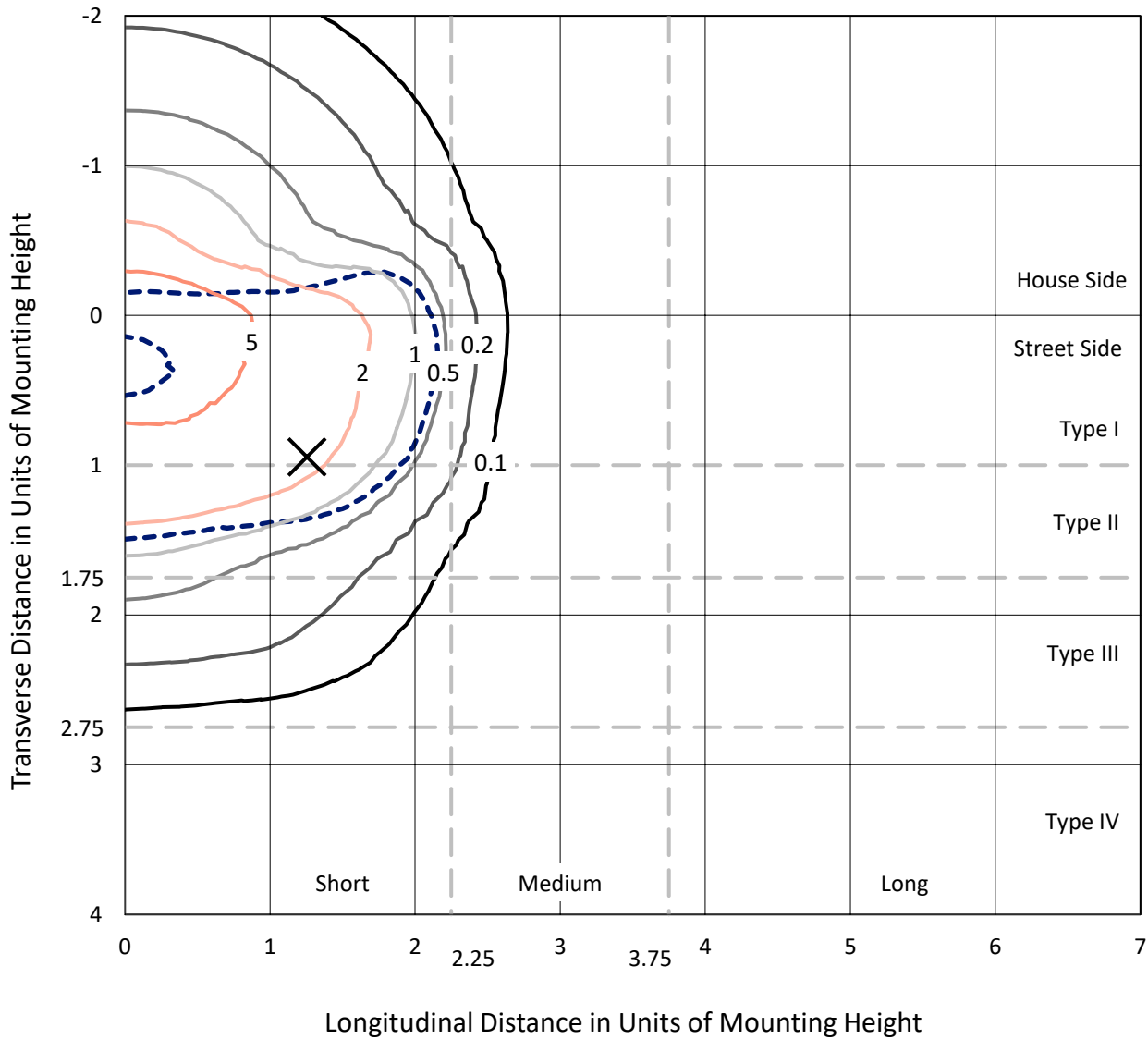
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

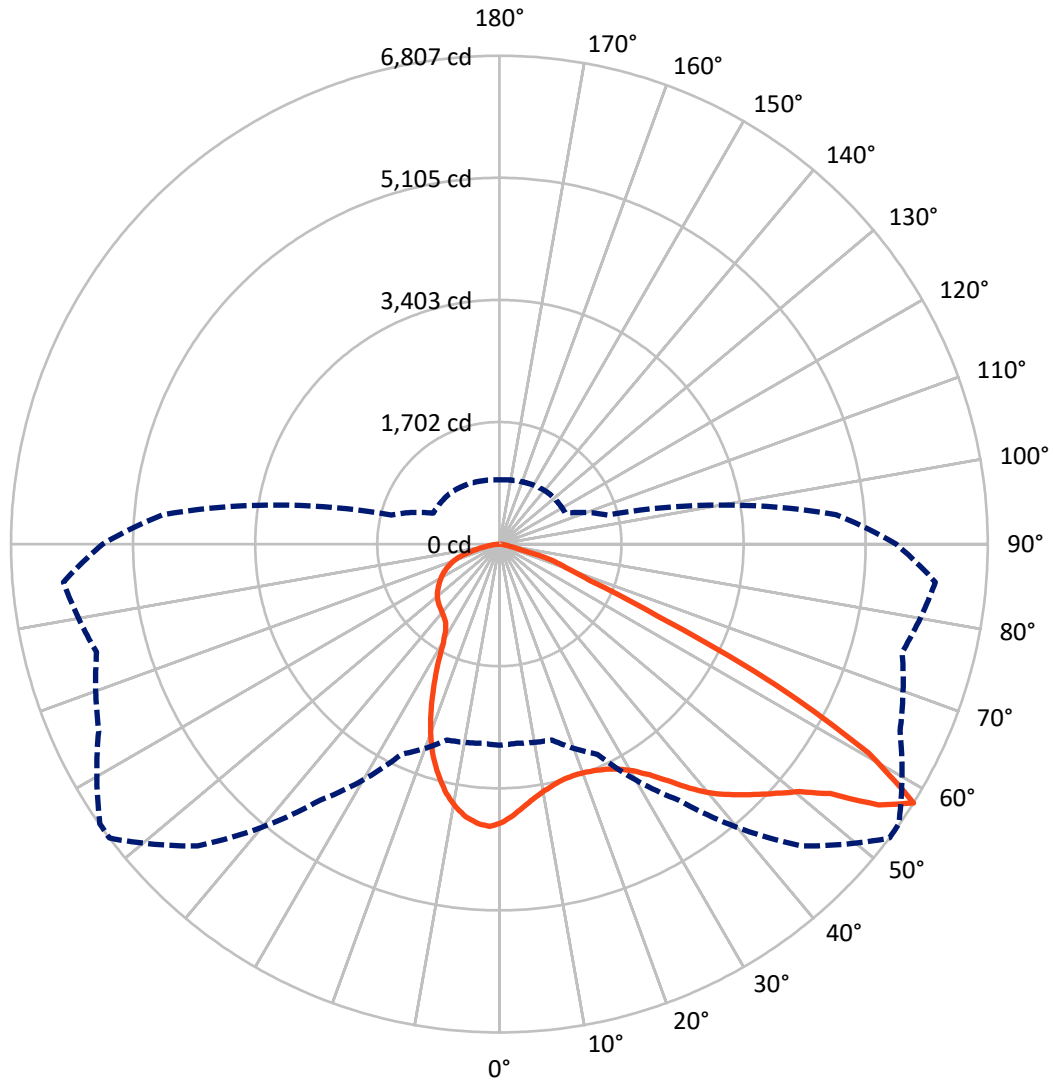
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3801.7	0.0	3801.7
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8357.3	0.0	8357.3
	% Fixture	68.7	0.0	68.7
Total	Lumens	12159.0	0.0	12159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	2.9
10°-20°	921.2	7.6
20°-30°	1357.2	11.2
30°-40°	1899.7	15.6
40°-50°	2497.3	20.5
50°-60°	2928.1	24.1
60°-70°	1725.0	14.2
70°-80°	429.1	3.5
80°-90°	50.3	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°	12159.0	100.0
0°-180°	12159.0	100.0

Coefficient of Utilization



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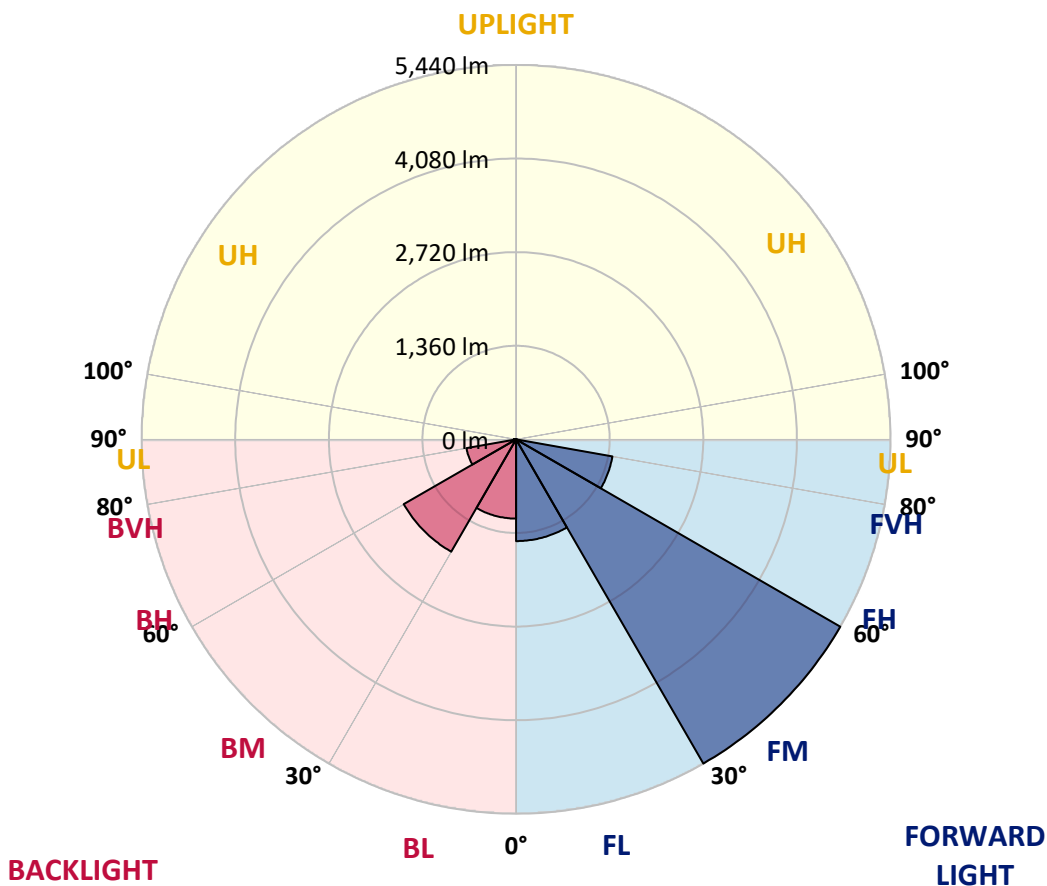
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.3	12.2			
FM (30°-60°)	5440.0	44.7			
FH (60°-80°)	1422.1	11.7			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1151.2	9.5	B3/2500		
BM (30°-60°)	1885.1	15.5	B2/2500		
BH (60°-80°)	731.9	6.0	B2/1000		G2/1000
BVH (80°-90°)	33.5	0.3			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°	53°	55°	65°	75°	85°
0°	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7
2.5°	3659.6	3669.8	3671.9	3703.6	3705.7	3751.7	3782.4	3776.3	3808.0	3846.9	3877.6
5°	3484.6	3485.6	3495.9	3533.7	3554.2	3614.6	3665.7	3665.7	3727.1	3807.0	3875.5
7.5°	3340.3	3339.3	3348.5	3390.5	3424.2	3496.9	3566.5	3574.7	3660.6	3777.3	3888.8
10°	3206.2	3213.4	3223.6	3274.8	3317.8	3407.8	3490.7	3504.0	3612.5	3756.8	3907.3
12.5°	3120.3	3121.3	3136.7	3194.0	3249.2	3345.4	3432.4	3448.8	3573.6	3737.4	3920.6
15°	3065.0	3066.0	3082.4	3145.9	3210.3	3307.6	3396.6	3415.0	3551.1	3734.3	3946.1
17.5°	3040.5	3039.4	3054.8	3118.2	3188.8	3290.2	3385.3	3407.8	3561.4	3757.8	3991.2
20°	3040.5	3041.5	3049.7	3107.0	3178.6	3286.1	3396.6	3424.2	3601.3	3811.1	4060.8
22.5°	3083.4	3087.5	3091.6	3130.5	3186.8	3292.2	3426.3	3463.1	3687.2	3900.1	4151.8
25°	3167.4	3168.4	3172.5	3204.2	3229.8	3309.6	3475.4	3530.7	3821.3	4030.1	4266.5
27.5°	3279.9	3294.3	3298.3	3318.8	3318.8	3352.6	3552.1	3632.0	4002.4	4217.3	4412.8
30°	3437.5	3442.6	3449.8	3472.3	3447.8	3433.4	3664.7	3767.1	4212.2	4443.5	4588.8
32.5°	3575.7	3586.9	3625.8	3662.7	3618.7	3573.6	3830.5	3951.3	4413.8	4678.9	4776.1
35°	3693.4	3721.0	3795.7	3877.6	3846.9	3801.9	4050.5	4176.4	4579.6	4847.7	4941.9
37.5°	3835.6	3857.1	3959.5	4092.5	4120.1	4098.6	4318.7	4408.7	4690.1	4890.7	5032.0
40°	3979.9	4012.7	4144.7	4328.9	4434.3	4449.6	4566.3	4626.7	4728.0	4806.8	5014.6
42.5°	4127.3	4183.6	4364.7	4579.6	4766.9	4801.7	4775.1	4800.7	4715.7	4691.2	4933.7
45°	4307.4	4373.9	4578.6	4852.9	5099.5	5153.7	4979.8	4956.2	4713.7	4647.2	4883.6
47.5°	4520.3	4586.8	4782.2	5101.5	5416.7	5456.7	5189.6	5146.6	4785.3	4714.7	4951.1
50°	4708.6	4754.6	4929.6	5286.8	5712.5	5736.0	5420.8	5368.6	4963.4	4902.0	5161.9
52.5°	4517.2	4512.1	4696.3	5136.3	5866.0	6149.5	5777.0	5726.8	5307.2	5213.1	5488.4
55°	3832.6	3774.2	3939.0	4371.9	5437.2	6516.9	6415.6	6315.3	5765.7	5526.2	5794.4
57.5°	2802.0	2785.6	2825.5	3231.8	4355.5	5947.9	6806.5	6797.3	6161.8	5812.8	6099.3
60°	2191.1	2166.5	2060.1	2071.3	2968.8	4646.1	5906.9	6178.1	6407.4	5984.7	6312.2
62.5°	1945.4	1927.0	1871.8	1719.3	1768.4	3115.2	4329.9	4578.6	5598.9	5285.7	5421.9
65°	1610.8	1605.7	1651.7	1645.6	1481.9	1720.3	2443.8	2694.6	3520.4	3564.4	3520.4
67.5°	1170.7	1161.5	1278.2	1508.5	1426.6	1298.7	1362.1	1449.1	1805.2	1621.0	1459.3
70°	761.4	748.1	815.6	1089.9	1277.2	1131.9	981.4	967.1	992.7	617.1	667.2
72.5°	510.7	495.3	494.3	599.7	771.6	762.4	760.4	753.2	672.4	487.1	540.3
75°	284.5	272.2	269.1	258.9	276.3	281.4	299.8	310.1	335.7	369.4	409.4
77.5°	48.1	47.1	59.4	75.7	104.4	134.1	165.8	175.0	215.9	255.8	281.4
80°	26.6	27.6	35.8	44.0	58.3	79.8	102.3	108.5	133.0	154.5	175.0
82.5°	14.3	14.3	18.4	23.5	31.7	42.0	55.3	60.4	76.8	90.1	104.4
85°	5.1	5.1	7.2	9.2	13.3	17.4	21.5	24.6	33.8	46.1	52.2
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.1	4.1	5.1	9.2	13.3
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°	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7	3882.7
2.5°	3903.2	3875.5	3913.4	3930.8	3936.9	3941.0	3914.4	3896.0	3889.9	3870.4	3859.2
5°	3917.5	3899.1	3934.9	3934.9	3909.3	3882.7	3828.5	3790.6	3764.0	3732.3	3727.1
7.5°	3942.1	3928.7	3948.2	3908.3	3843.8	3772.2	3678.0	3604.3	3545.0	3506.1	3507.1
10°	3974.8	3958.4	3943.1	3854.0	3736.4	3604.3	3460.0	3352.6	3254.3	3209.3	3184.8
12.5°	3996.3	3972.8	3908.3	3760.9	3588.0	3410.9	3207.3	3047.6	2905.4	2840.9	2835.8
15°	4022.9	3979.9	3851.0	3640.2	3399.7	3158.1	2896.2	2674.1	2481.7	2381.4	2376.3
17.5°	4057.7	3987.1	3782.4	3502.0	3201.1	2845.0	2515.5	2236.1	2031.4	1953.6	1966.9
20°	4106.8	3995.3	3704.6	3348.5	2954.5	2488.9	2078.5	1821.6	1742.8	1737.7	1727.5
22.5°	4162.1	4000.4	3618.7	3176.6	2655.7	2109.2	1717.2	1607.7	1606.7	1632.3	1638.4
25°	4224.5	4004.5	3521.4	2976.0	2332.3	1730.5	1518.7	1485.9	1511.5	1559.6	1565.8
27.5°	4304.3	4012.7	3403.8	2756.0	1988.4	1495.2	1409.2	1401.0	1431.7	1476.7	1474.7
30°	4422.0	4042.3	3278.9	2503.2	1635.4	1383.6	1342.7	1343.7	1356.0	1377.5	1380.5
32.5°	4541.8	4088.4	3157.1	2218.7	1432.7	1320.2	1301.7	1299.7	1299.7	1308.9	1310.9
35°	4655.3	4140.6	3025.1	1921.9	1334.5	1283.3	1271.0	1264.9	1261.8	1259.8	1256.7
37.5°	4718.8	4166.2	2896.2	1629.2	1282.3	1258.8	1246.5	1238.3	1227.0	1218.8	1216.8
40°	4691.2	4136.5	2746.7	1410.2	1250.6	1235.2	1220.9	1209.6	1194.3	1187.1	1183.0
42.5°	4599.1	4044.4	2584.0	1306.9	1225.0	1209.6	1192.2	1173.8	1163.6	1157.4	1156.4
45°	4501.8	3932.8	2387.5	1246.5	1200.4	1182.0	1161.5	1141.1	1129.8	1126.7	1125.7
47.5°	4498.8	3877.6	2178.8	1198.4	1170.7	1152.3	1126.7	1106.3	1094.0	1089.9	1085.8
50°	4633.9	3933.9	1943.4	1156.4	1140.0	1120.6	1091.9	1069.4	1054.1	1049.0	1047.9
52.5°	4914.3	4145.7	1732.6	1114.5	1099.1	1076.6	1053.1	1030.5	1012.1	1002.9	1001.9
55°	5217.2	4414.9	1601.6	1071.5	1051.0	1031.6	1010.1	985.5	965.0	950.7	948.7
57.5°	5530.3	4708.6	1561.7	1017.2	1001.9	988.6	963.0	936.4	912.9	899.5	896.5
60°	5788.2	4961.3	1636.4	959.9	951.7	934.3	910.8	885.2	868.8	858.6	856.6
62.5°	4845.7	4039.3	1321.2	897.5	897.5	879.1	852.5	834.1	822.8	815.6	813.6
65°	3075.3	2501.1	901.6	835.1	834.1	809.5	787.0	774.7	769.6	758.3	756.3
67.5°	1339.6	1143.1	770.6	771.6	767.5	740.9	718.4	709.2	699.0	686.7	685.7
70°	694.9	708.2	689.8	701.0	693.9	662.1	640.6	626.3	604.8	592.5	593.6
72.5°	560.8	575.1	595.6	613.0	597.7	572.1	538.3	520.9	493.3	480.0	481.0
75°	427.8	443.1	462.6	481.0	468.7	437.0	415.5	398.1	366.4	351.0	354.1
77.5°	294.7	302.9	326.5	325.4	321.3	312.1	280.4	259.9	227.2	208.8	210.8
80°	183.2	188.3	199.6	204.7	202.6	190.3	164.8	149.4	130.0	118.7	119.7
82.5°	110.5	113.6	123.8	124.9	123.8	114.6	95.2	83.9	71.6	65.5	65.5
85°	56.3	58.3	64.5	64.5	58.3	49.1	44.0	38.9	31.7	28.7	28.7
87.5°	15.4	15.4	19.4	16.4	13.3	12.3	6.1	5.1	2.0	1.0	1.0
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)