

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: P638500

Luminaire Tested: GWS-SA4E-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

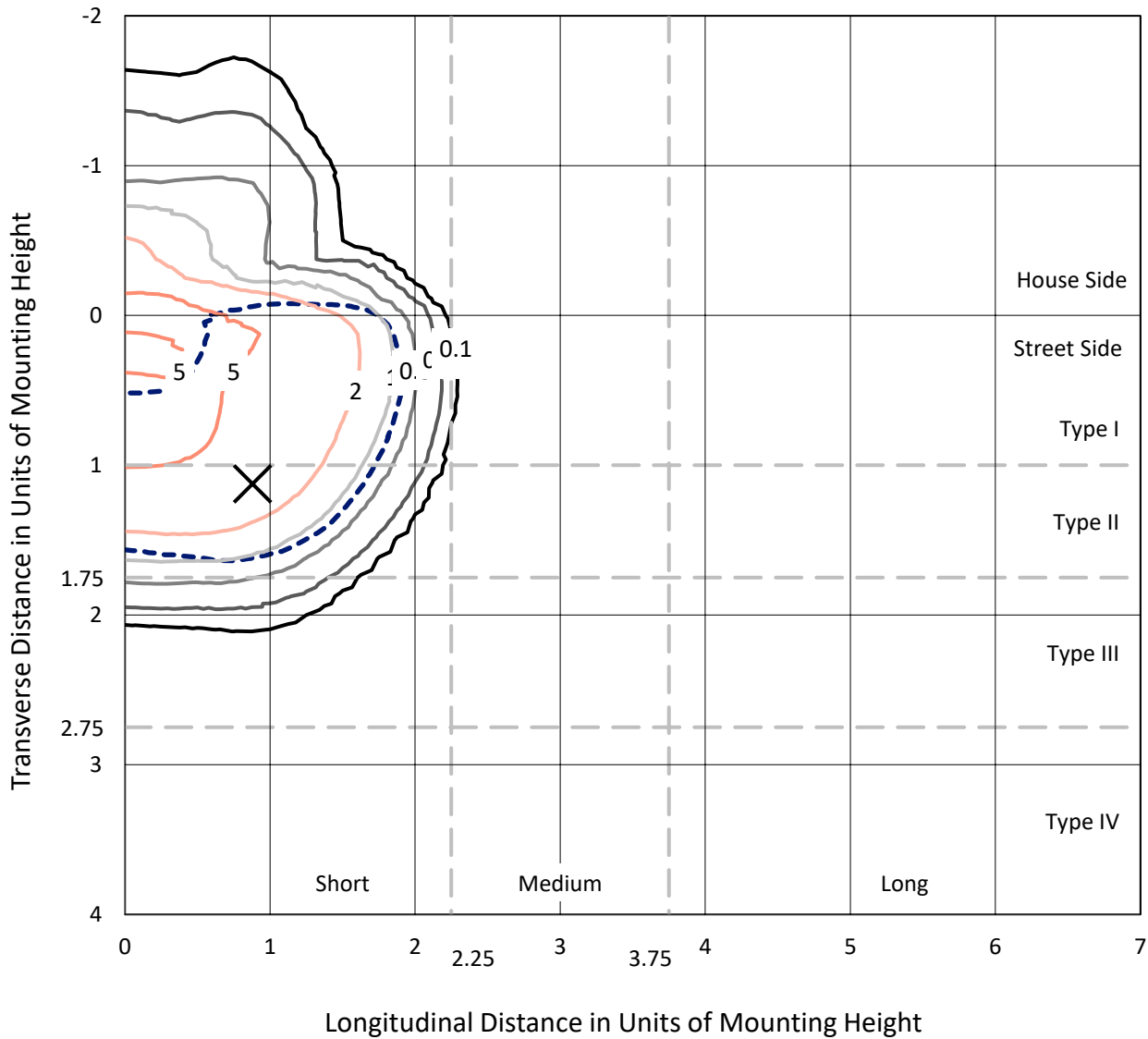
Lumens per Lamp: N/A  
Luminaire Lumens: 15247.2 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P638500  
 CATALOG NUMBER: GWS-SA4E-830-U-T3R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

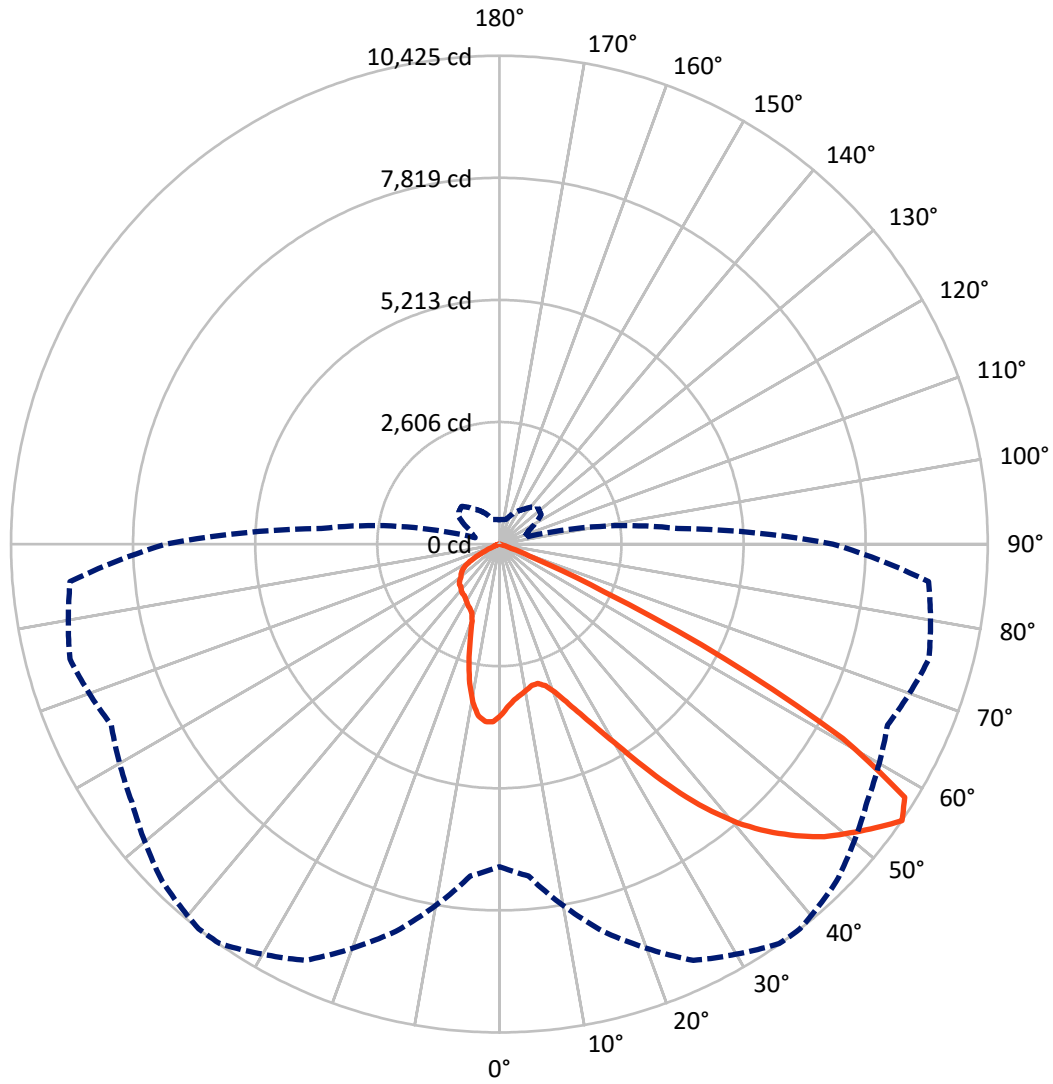
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P638500  
CATALOG NUMBER: GWS-SA4E-830-U-T3R-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P638500  
 CATALOG NUMBER: GWS-SA4E-830-U-T3R-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2970.6	0.0	2970.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	12276.6	0.0	12276.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	15247.2	0.0	15247.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.1	2.2
10°-20°	910.2	6.0
20°-30°	1561.9	10.2
30°-40°	2590.5	17.0
40°-50°	3808.1	25.0
50°-60°	4449.9	29.2
60°-70°	1508.4	9.9
70°-80°	77.1	0.5
80°-90°	3.0	0.0
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°	15247.2	100.0
0°-180°	15247.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638500

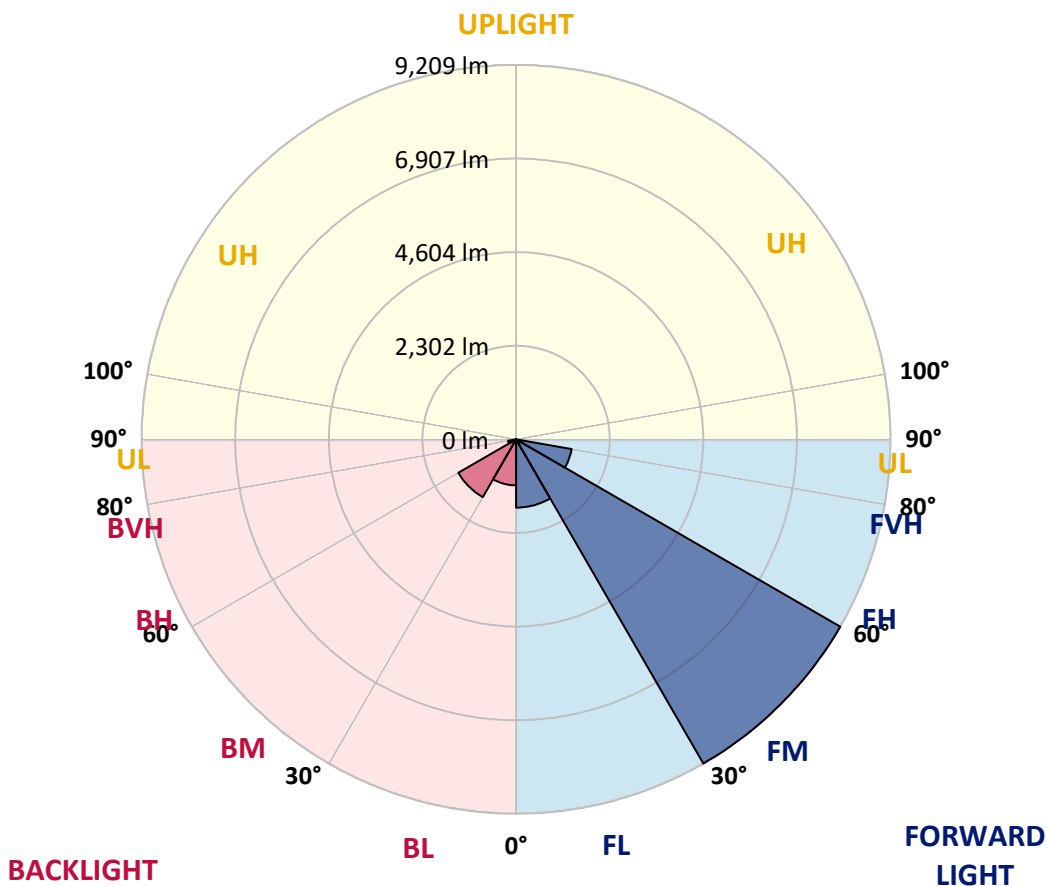
CATALOG NUMBER: GWS-SA4E-830-U-T3R-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.3	11.0			
FM (30°-60°)	9208.9	60.4			
FH (60°-80°)	1387.7	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1131.8	7.4	B3/2500		
BM (30°-60°)	1639.7	10.8	B2/2500		
BH (60°-80°)	197.8	1.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





REPORT NUMBER: P638500

CATALOG NUMBER: GWS-SA4E-830-U-T3R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4
2.5°	3405.4	3398.5	3412.4	3440.3	3466.4	3475.1	3501.3	3537.9	3560.5	3614.6	3658.1
5°	3252.1	3248.6	3262.5	3286.9	3321.8	3334.0	3374.1	3435.1	3496.1	3590.2	3682.5
7.5°	3112.6	3110.9	3131.8	3185.8	3236.4	3252.1	3300.9	3375.8	3457.7	3602.4	3738.3
10°	2929.6	2931.4	2971.5	3048.2	3140.5	3171.9	3250.3	3358.4	3464.7	3651.2	3839.4
12.5°	2870.4	2873.9	2894.8	2954.0	3055.1	3095.2	3205.0	3368.8	3504.8	3720.9	3970.1
15°	3015.0	3015.0	2997.6	3004.6	3049.9	3086.5	3201.5	3403.7	3572.7	3804.5	4099.1
17.5°	3295.6	3285.2	3241.6	3182.4	3166.7	3178.9	3271.2	3478.6	3668.6	3902.1	4245.5
20°	3675.6	3679.1	3593.7	3469.9	3370.6	3368.8	3424.6	3611.1	3806.3	4018.9	4404.1
22.5°	4135.7	4121.7	4008.4	3839.4	3666.9	3652.9	3675.6	3813.2	4005.0	4203.6	4599.3
25°	4669.0	4662.0	4501.7	4275.1	4046.8	4013.7	4013.7	4149.6	4289.0	4466.8	4832.8
27.5°	5226.7	5226.7	5071.5	4810.1	4506.9	4447.6	4438.9	4599.3	4691.6	4726.5	5029.7
30°	5800.0	5793.1	5639.7	5371.3	5047.2	4986.2	4961.8	5080.3	5146.5	5041.9	5275.5
32.5°	6382.1	6394.3	6239.2	5990.0	5700.7	5660.6	5585.7	5585.7	5639.7	5493.3	5662.4
35°	7007.8	7004.3	6882.3	6713.3	6465.8	6420.5	6296.7	6103.3	6185.2	6120.7	6197.4
37.5°	7560.3	7586.4	7527.2	7401.7	7201.3	7155.9	6952.0	6601.7	6664.5	6765.6	6833.5
40°	8121.5	8142.4	8201.6	8161.5	7908.8	7825.2	7462.7	6887.5	6957.3	7304.1	7499.3
42.5°	8672.2	8682.6	8802.9	8869.1	8531.0	8384.6	7849.6	7061.8	7135.0	7725.8	8067.4
45°	9022.5	9045.1	9243.8	9446.0	9080.0	8879.6	8185.9	7284.9	7316.3	8018.6	8487.4
47.5°	9008.5	9060.8	9433.8	9801.5	9552.3	9336.2	8590.3	7642.2	7589.9	8294.0	8764.5
50°	8727.9	8790.7	9325.7	9909.6	9892.1	9691.7	9039.9	8159.8	7996.0	8538.0	8799.4
52.5°	8145.8	8327.1	9135.8	9923.5	10165.8	10064.7	9595.9	8856.9	8545.0	8888.3	8855.2
55°	6887.5	7110.6	8558.9	9805.0	10413.2	10425.4	10179.7	9583.7	9141.0	9491.3	9198.5
57.5°	5228.4	5406.2	6587.8	8727.9	10003.7	10204.1	10406.3	9967.1	9508.7	9902.6	9278.7
60°	3151.0	3356.6	4125.2	6404.8	8079.6	8421.2	9214.2	9128.8	8576.3	8745.4	7609.1
62.5°	1277.5	1385.5	1904.9	3529.2	5085.5	5404.4	6164.3	6293.3	6157.3	5984.8	4614.9
65°	467.1	510.6	763.3	1458.7	2338.8	2455.6	2856.4	3084.8	3273.0	2786.7	1716.7
67.5°	289.3	317.2	496.7	749.4	850.5	791.2	805.2	960.3	916.7	566.4	306.7
70°	214.4	237.0	388.6	519.4	343.3	264.9	179.5	191.7	172.5	151.6	149.9
72.5°	148.1	169.1	291.0	306.7	132.5	94.1	66.2	92.4	104.6	102.8	106.3
75°	97.6	113.3	183.0	120.3	33.1	26.1	22.7	48.8	62.7	62.7	64.5
77.5°	57.5	66.2	64.5	24.4	7.0	7.0	5.2	8.7	13.9	15.7	19.2
80°	7.0	5.2	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2
82.5°	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2
85°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2
87.5°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2
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: P638500

CATALOG NUMBER: GWS-SA4E-830-U-T3R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4	3656.4
2.5°	3691.3	3679.1	3729.6	3766.2	3795.8	3809.8	3790.6	3788.8	3788.8	3750.5	3740.0
5°	3734.8	3740.0	3811.5	3842.9	3848.1	3830.7	3787.1	3757.5	3740.0	3700.0	3677.3
7.5°	3818.5	3835.9	3903.9	3898.6	3851.6	3771.4	3656.4	3567.5	3510.0	3447.3	3408.9
10°	3938.7	3971.8	4013.7	3940.5	3790.6	3586.7	3349.7	3180.6	3079.5	3008.1	2964.5
12.5°	4085.1	4118.2	4104.3	3931.8	3619.8	3255.6	2950.6	2706.6	2589.8	2525.3	2480.0
15°	4233.3	4254.2	4163.6	3827.2	3318.3	2828.6	2488.7	2246.5	2103.6	2051.3	2012.9
17.5°	4384.9	4379.7	4174.0	3621.5	2915.7	2347.6	2012.9	1847.4	1807.3	1798.6	1795.1
20°	4543.5	4496.4	4132.2	3327.0	2431.2	1871.8	1681.8	1692.3	1765.5	1800.3	1807.3
22.5°	4724.7	4606.2	4027.6	2927.9	1936.3	1559.8	1579.0	1681.8	1781.1	1828.2	1835.2
25°	4918.2	4707.3	3853.3	2415.5	1526.7	1434.3	1547.6	1666.1	1772.4	1829.9	1836.9
27.5°	5045.4	4731.7	3567.5	1899.7	1310.6	1385.5	1505.8	1619.1	1728.9	1791.6	1800.3
30°	5183.1	4721.2	3178.9	1464.0	1237.4	1343.7	1448.3	1551.1	1652.2	1721.9	1728.9
32.5°	5385.3	4714.3	2704.8	1188.6	1207.8	1310.6	1387.3	1472.7	1542.4	1582.5	1577.2
35°	5650.2	4705.6	2152.4	1071.8	1190.3	1284.4	1345.4	1385.5	1308.8	1284.4	1289.7
37.5°	5990.0	4726.5	1687.0	1023.0	1185.1	1277.5	1329.8	1214.7	1096.2	1050.9	1043.9
40°	6366.5	4780.5	1286.2	1003.9	1202.5	1294.9	1270.5	1080.5	934.1	845.3	826.1
42.5°	6744.6	4839.8	1017.8	996.9	1232.2	1343.7	1172.9	982.9	763.3	712.8	705.8
45°	7025.2	4829.3	880.1	984.7	1258.3	1371.6	1146.8	843.5	681.4	658.8	660.5
47.5°	7166.4	4714.3	805.2	956.8	1268.8	1343.7	1082.3	786.0	625.7	650.1	671.0
50°	7091.5	4416.3	735.5	902.8	1246.1	1307.1	979.5	742.4	597.8	698.9	745.9
52.5°	7000.8	4050.3	658.8	819.1	1192.1	1256.6	939.4	730.2	580.4	674.5	709.3
55°	7121.1	3818.5	533.3	690.1	1085.8	1138.0	908.0	728.5	540.3	524.6	519.4
57.5°	6952.0	3356.6	381.7	496.7	833.1	901.0	885.3	716.3	479.3	477.5	484.5
60°	5373.1	2047.8	261.4	315.4	510.6	575.1	803.4	684.9	413.0	379.9	381.7
62.5°	3053.4	871.4	179.5	195.2	261.4	310.2	613.5	622.2	381.7	362.5	381.7
65°	1063.1	312.0	139.4	130.7	144.7	165.6	352.0	481.0	346.8	313.7	317.2
67.5°	219.6	155.1	123.7	108.1	108.1	108.1	179.5	299.8	285.8	249.2	252.7
70°	139.4	132.5	108.1	92.4	88.9	81.9	102.8	165.6	196.9	181.3	183.0
72.5°	102.8	101.1	85.4	74.9	66.2	59.3	64.5	81.9	101.1	104.6	106.3
75°	62.7	64.5	55.8	47.1	41.8	36.6	38.3	38.3	38.3	34.9	38.3
77.5°	19.2	20.9	17.4	13.9	12.2	12.2	12.2	10.5	8.7	5.2	5.2
80°	5.2	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0
82.5°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
85°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
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)