

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: P633513

Luminaire Tested: GWS-SA2E-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633513  
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-SA2E-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

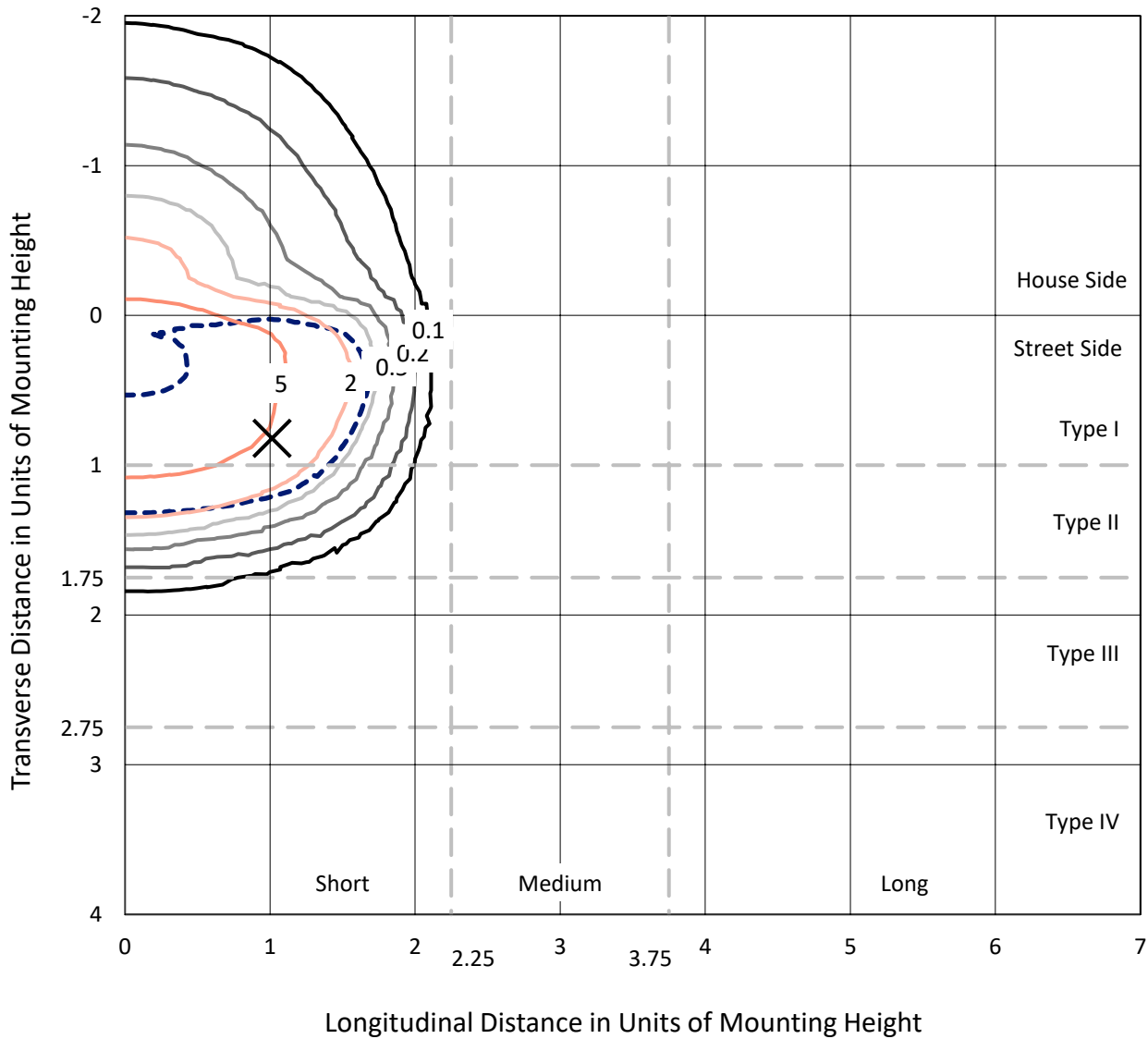
Lumens per Lamp: N/A  
Luminaire Lumens: 10515.3 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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: P633513  
 CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

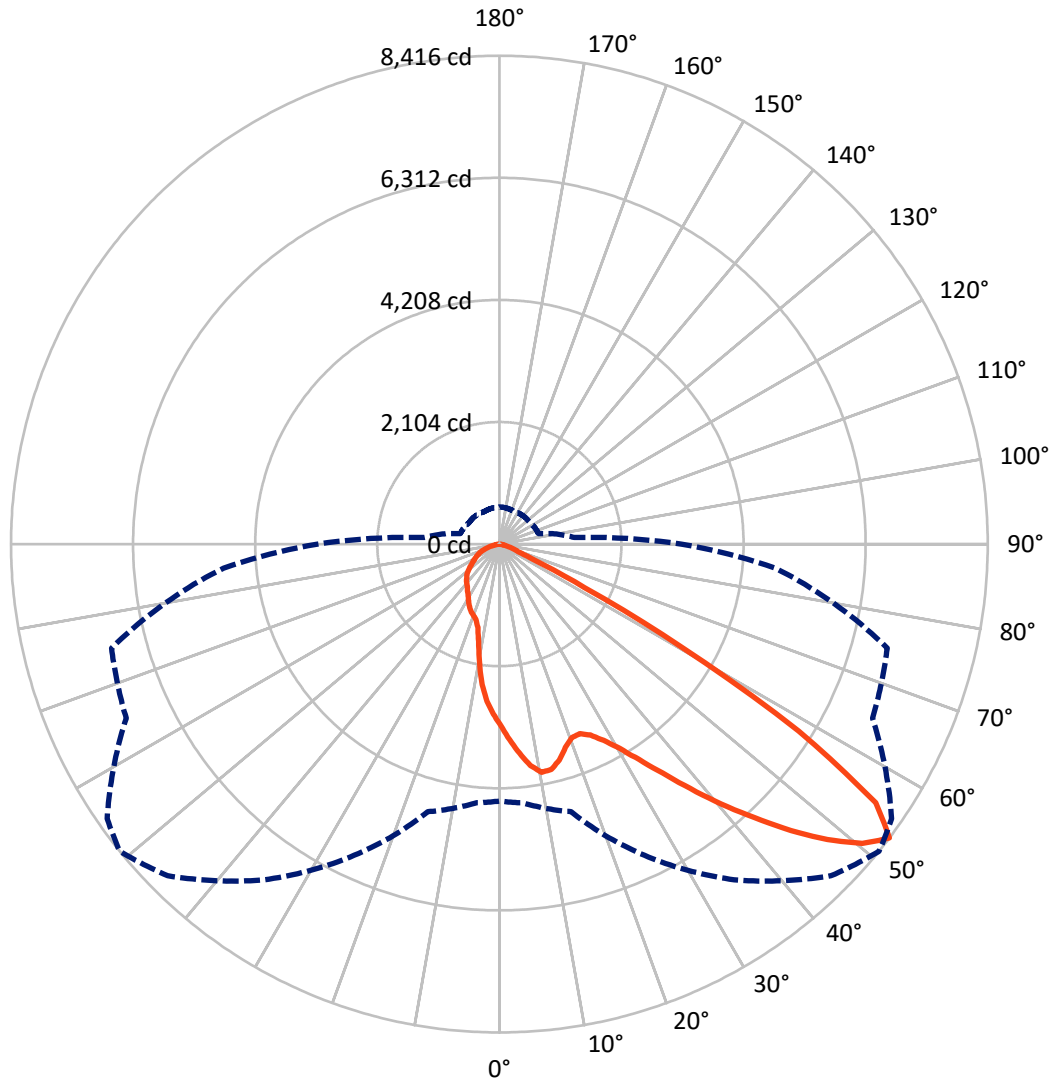
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P633513  
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P633513

CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2048.8	0.0	2048.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8466.5	0.0	8466.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	10515.3	0.0	10515.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.2	2.8
10°-20°	759.1	7.2
20°-30°	1234.3	11.7
30°-40°	1956.1	18.6
40°-50°	2950.2	28.1
50°-60°	2552.2	24.3
60°-70°	578.6	5.5
70°-80°	170.6	1.6
80°-90°	22.0	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°	10515.3	100.0
0°-180°	10515.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633513

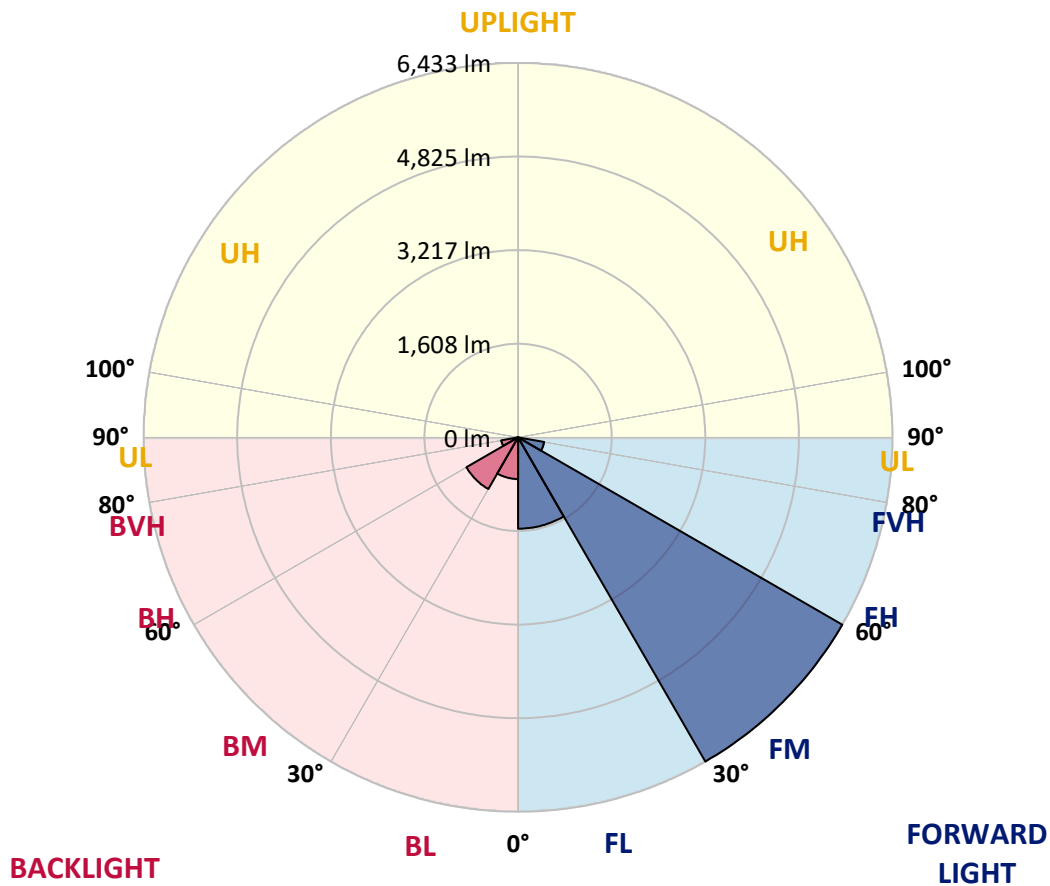
CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.4	14.9			
FM (30°-60°)	6433.4	61.2			
FH (60°-80°)	455.4	4.3			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	716.2	6.8	B2/1000		
BM (30°-60°)	1025.1	9.7	B2/2500		
BH (60°-80°)	293.9	2.8	B1/500		G1/500
BVH (80°-90°)	13.7	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: P633513

CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9
2.5°	3489.1	3509.0	3478.3	3466.6	3447.5	3414.3	3376.1	3365.3	3283.0	3229.0	3168.3
5°	3839.7	3850.5	3825.6	3800.7	3753.3	3694.3	3620.3	3604.6	3455.0	3331.2	3202.4
7.5°	3917.8	3913.7	3935.3	3949.4	3943.6	3920.3	3854.7	3823.9	3645.3	3449.2	3258.9
10°	3608.7	3585.4	3665.2	3759.9	3873.8	4005.1	3997.6	3995.1	3839.7	3607.9	3331.2
12.5°	3199.1	3187.4	3252.2	3371.1	3586.3	3877.1	3986.0	4070.7	4015.0	3759.1	3411.8
15°	2964.7	2960.6	3004.6	3090.2	3261.4	3628.7	3861.3	4029.2	4165.4	3921.1	3497.4
17.5°	2922.4	2924.9	2939.8	2988.8	3111.8	3414.3	3683.5	3917.8	4282.6	4099.0	3604.6
20°	3046.2	3062.8	3037.0	3044.5	3111.0	3337.0	3562.2	3805.6	4357.4	4277.6	3720.1
22.5°	3321.2	3315.4	3258.9	3225.7	3226.5	3384.4	3548.9	3753.3	4406.4	4451.3	3824.8
25°	3632.8	3626.2	3558.9	3484.9	3438.4	3513.2	3644.4	3809.0	4450.4	4610.0	3908.7
27.5°	4000.9	3980.1	3905.4	3810.6	3707.6	3740.0	3828.9	3959.4	4518.6	4766.2	3964.3
30°	4357.4	4381.5	4274.3	4162.1	4053.3	4033.3	4084.8	4202.8	4657.3	4949.0	4030.8
32.5°	4830.2	4821.9	4703.0	4556.8	4401.4	4386.5	4427.2	4535.2	4906.6	5201.6	4132.2
35°	5402.7	5404.3	5235.7	5037.9	4816.9	4777.0	4845.1	4949.8	5278.0	5543.9	4292.6
37.5°	5997.6	5995.1	5848.1	5623.7	5322.1	5265.6	5343.7	5421.8	5742.5	6010.1	4541.8
40°	6414.7	6431.4	6362.4	6244.4	5958.6	5820.6	5889.6	5943.6	6247.7	6558.5	4870.1
42.5°	6651.6	6676.5	6691.4	6762.1	6611.7	6464.6	6439.7	6467.9	6698.9	7067.9	5178.3
45°	6702.2	6735.5	6844.3	7106.1	7164.2	7122.7	7041.3	6973.1	7035.5	7429.3	5380.2
47.5°	6478.7	6536.9	6769.6	7227.4	7567.2	7697.7	7607.1	7503.3	7229.9	7522.4	5359.5
50°	5593.0	5661.1	6185.4	6979.8	7624.6	8099.9	8108.2	7954.5	7206.6	7254.0	5098.6
52.5°	4428.0	4474.5	4774.5	5917.0	7062.0	8083.2	8415.6	8251.1	7094.4	6918.3	4772.0
55°	2646.5	2721.3	3001.3	3903.7	5501.6	7164.2	7872.2	7952.0	7039.6	6636.6	4549.3
57.5°	893.2	929.8	1197.4	1724.2	3242.3	5245.6	6082.4	6406.4	6390.7	6206.2	4114.7
60°	425.4	433.7	487.8	653.9	1297.9	2741.2	3600.4	3974.3	4315.0	4349.1	2560.1
62.5°	324.1	329.0	356.5	392.2	521.8	1155.0	1650.2	1936.1	2068.2	1774.9	932.3
65°	270.9	275.0	295.8	318.2	354.8	500.2	633.2	730.4	658.1	512.7	444.5
67.5°	226.0	229.3	245.1	269.2	294.1	334.9	351.5	361.5	378.9	425.4	408.8
70°	177.0	180.3	196.9	217.7	241.8	251.8	267.6	277.5	312.4	372.3	370.6
72.5°	136.3	140.4	149.6	162.9	182.8	192.8	210.2	221.9	241.8	290.0	309.9
75°	99.7	102.2	110.5	114.7	117.2	114.7	132.1	145.4	172.0	190.3	195.3
77.5°	40.7	45.7	44.0	44.0	52.3	63.2	72.3	80.6	98.9	109.7	110.5
80°	16.6	18.3	21.6	24.1	29.1	37.4	43.2	46.5	54.8	61.5	66.5
82.5°	10.0	10.8	12.5	13.3	16.6	21.6	24.9	27.4	34.1	40.7	43.2
85°	5.0	5.0	5.8	6.6	8.3	10.0	11.6	13.3	17.4	21.6	24.1
87.5°	0.8	0.8	0.8	1.7	2.5	3.3	4.2	5.0	5.8	6.6	8.3
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: P633513

CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9
2.5°	3132.6	3087.7	3035.4	2993.8	2945.6	2909.9	2859.2	2827.6	2797.7	2772.8	2754.5
5°	3135.9	3060.3	2951.4	2855.1	2755.4	2660.6	2563.4	2484.5	2413.8	2354.8	2349.9
7.5°	3155.0	3046.2	2875.8	2707.2	2512.7	2324.9	2137.1	1984.3	1867.9	1807.3	1794.8
10°	3187.4	3044.5	2798.6	2529.3	2197.8	1895.3	1672.7	1556.3	1489.0	1464.9	1456.6
12.5°	3221.5	3040.4	2699.7	2278.4	1818.1	1553.0	1430.9	1416.7	1429.2	1430.9	1430.0
15°	3263.0	3037.9	2575.0	1984.3	1540.5	1394.3	1402.6	1432.5	1461.6	1468.2	1468.2
17.5°	3313.7	3032.0	2405.5	1696.8	1366.9	1363.5	1407.6	1447.5	1474.9	1479.9	1479.9
20°	3366.9	3017.1	2197.0	1462.4	1296.2	1344.4	1391.8	1422.5	1441.7	1448.3	1449.1
22.5°	3403.5	2977.2	1956.8	1288.8	1252.2	1307.9	1341.9	1373.5	1373.5	1356.9	1351.9
25°	3411.0	2891.6	1696.8	1169.9	1199.9	1251.4	1286.3	1268.0	1233.9	1220.6	1219.8
27.5°	3383.5	2767.0	1440.0	1085.2	1136.7	1188.2	1182.4	1155.8	1140.9	1127.6	1132.6
30°	3350.3	2617.4	1217.3	1015.4	1063.6	1114.3	1094.3	1085.2	1074.4	1059.4	1062.8
32.5°	3327.9	2450.4	1046.1	961.4	1014.6	1022.9	1037.0	1036.2	1026.2	997.9	996.3
35°	3334.5	2281.7	931.5	917.3	973.8	970.5	997.1	992.1	923.2	884.1	881.6
37.5°	3387.7	2119.7	864.2	882.4	909.0	929.8	953.1	893.2	869.1	844.2	845.9
40°	3489.1	1969.3	827.6	863.3	870.0	900.7	846.7	845.9	835.1	812.6	811.8
42.5°	3603.7	1842.2	802.7	854.2	845.1	850.9	793.5	800.2	799.4	785.2	781.1
45°	3673.5	1725.0	782.7	820.1	822.6	764.5	747.0	754.5	758.6	751.2	750.3
47.5°	3601.2	1590.4	762.0	767.8	789.4	725.4	703.8	704.6	712.1	712.9	709.6
50°	3398.5	1440.0	737.0	722.9	708.8	684.7	664.7	660.6	668.1	675.5	678.0
52.5°	3136.7	1296.2	695.5	673.9	640.6	640.6	631.5	618.2	628.2	638.2	641.5
55°	2944.8	1189.9	636.5	612.4	575.8	588.3	586.6	575.0	588.3	595.8	598.3
57.5°	2551.8	956.4	560.0	552.6	521.8	536.8	540.1	525.1	518.5	520.2	522.7
60°	1514.8	617.4	505.2	504.4	477.0	494.4	504.4	489.4	469.5	472.0	475.3
62.5°	679.7	472.0	436.2	432.9	432.1	454.5	465.3	451.2	422.9	425.4	428.8
65°	427.9	408.0	378.9	378.9	392.2	411.3	419.6	408.0	375.6	371.4	374.7
67.5°	397.2	379.7	349.8	344.0	350.7	366.4	367.3	344.8	325.7	322.4	322.4
70°	356.5	343.2	314.1	302.5	300.0	299.1	296.6	290.8	278.4	275.0	276.7
72.5°	295.0	285.8	267.6	255.1	248.4	247.6	237.6	232.7	221.9	220.2	219.4
75°	195.3	197.8	197.8	196.1	190.3	187.8	177.0	172.0	159.5	154.6	153.7
77.5°	115.5	118.0	121.3	122.1	121.3	121.3	111.3	105.5	93.1	86.4	84.8
80°	70.6	72.3	74.0	76.4	73.1	70.6	61.5	55.7	49.9	45.7	44.9
82.5°	45.7	47.4	48.2	49.9	48.2	44.9	37.4	34.1	29.9	26.6	25.8
85°	25.8	26.6	28.3	28.3	25.8	23.3	19.1	16.6	14.1	12.5	12.5
87.5°	9.1	9.1	9.1	10.0	8.3	7.5	5.0	3.3	2.5	2.5	2.5
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)