

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: P640027

Luminaire Tested: GWS-SA5D-722-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

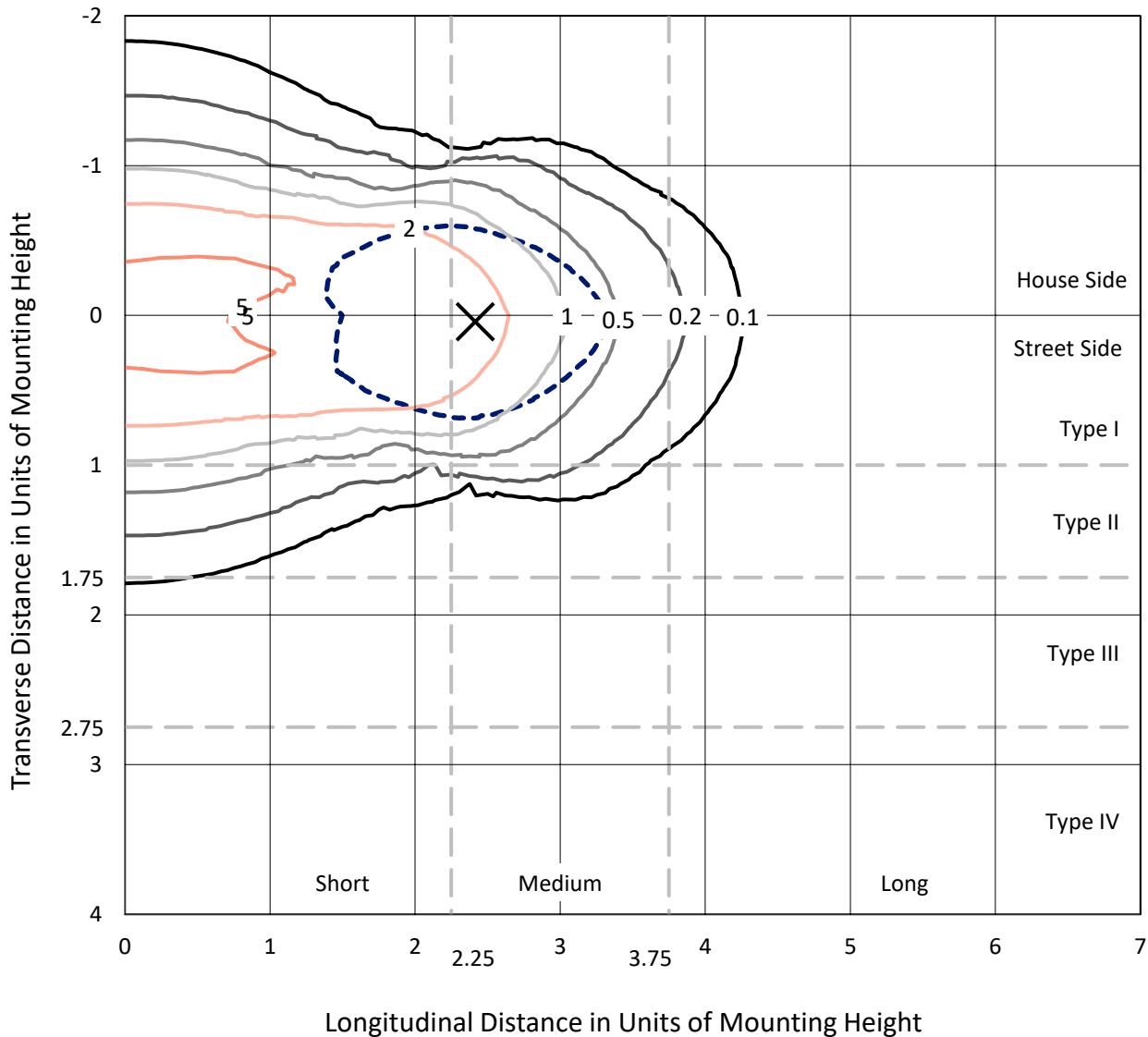
Lumens per Lamp: N/A  
Luminaire Lumens: 22087.5 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

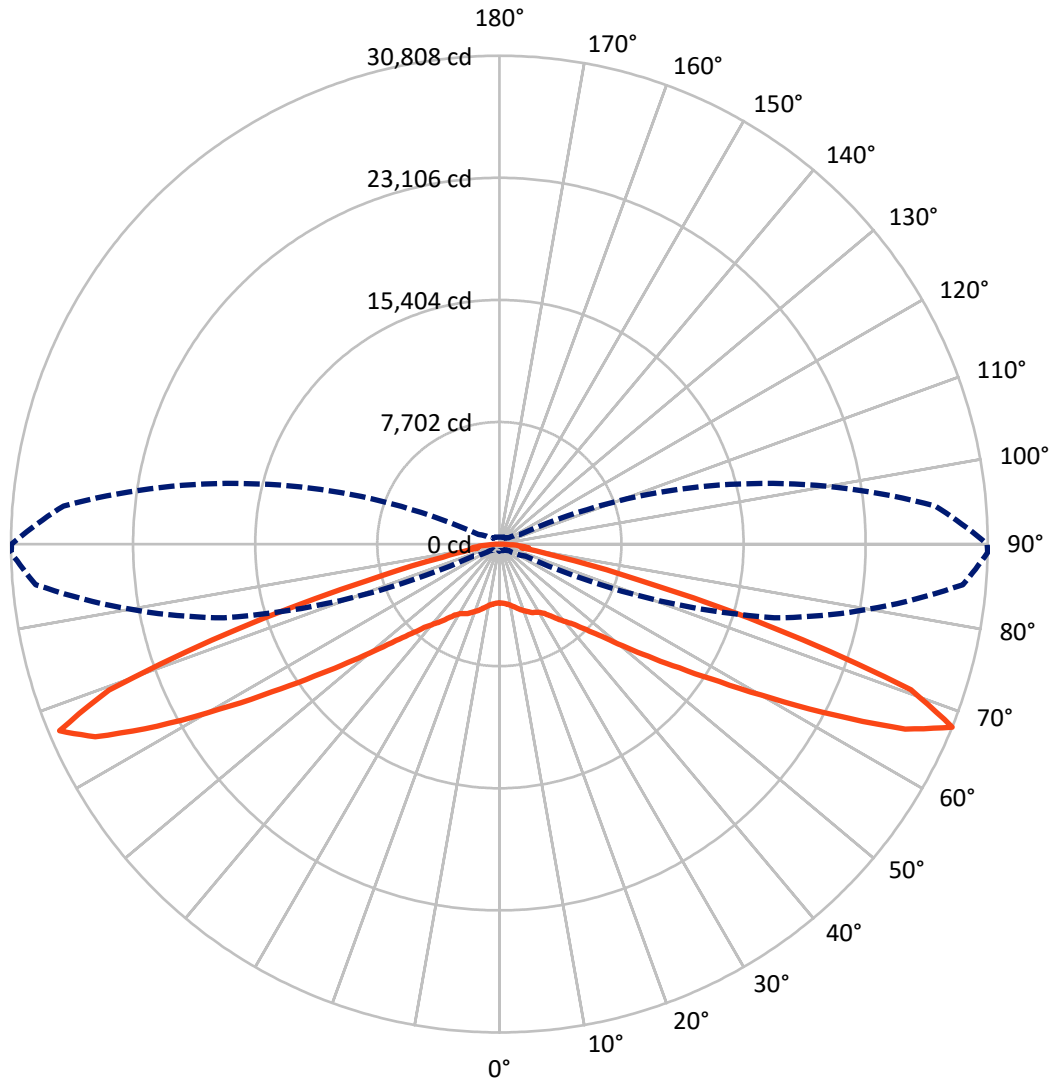
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10947.0	0.0	10947.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	11140.6	0.0	11140.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	22087.5	0.0	22087.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.9	1.7
10°-20°	1210.8	5.5
20°-30°	2046.9	9.3
30°-40°	2809.1	12.7
40°-50°	3582.2	16.2
50°-60°	4494.4	20.3
60°-70°	5420.6	24.5
70°-80°	1961.0	8.9
80°-90°	190.7	0.9
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°	22087.5	100.0
0°-180°	22087.5	100.0

**Coefficient of Utilization**



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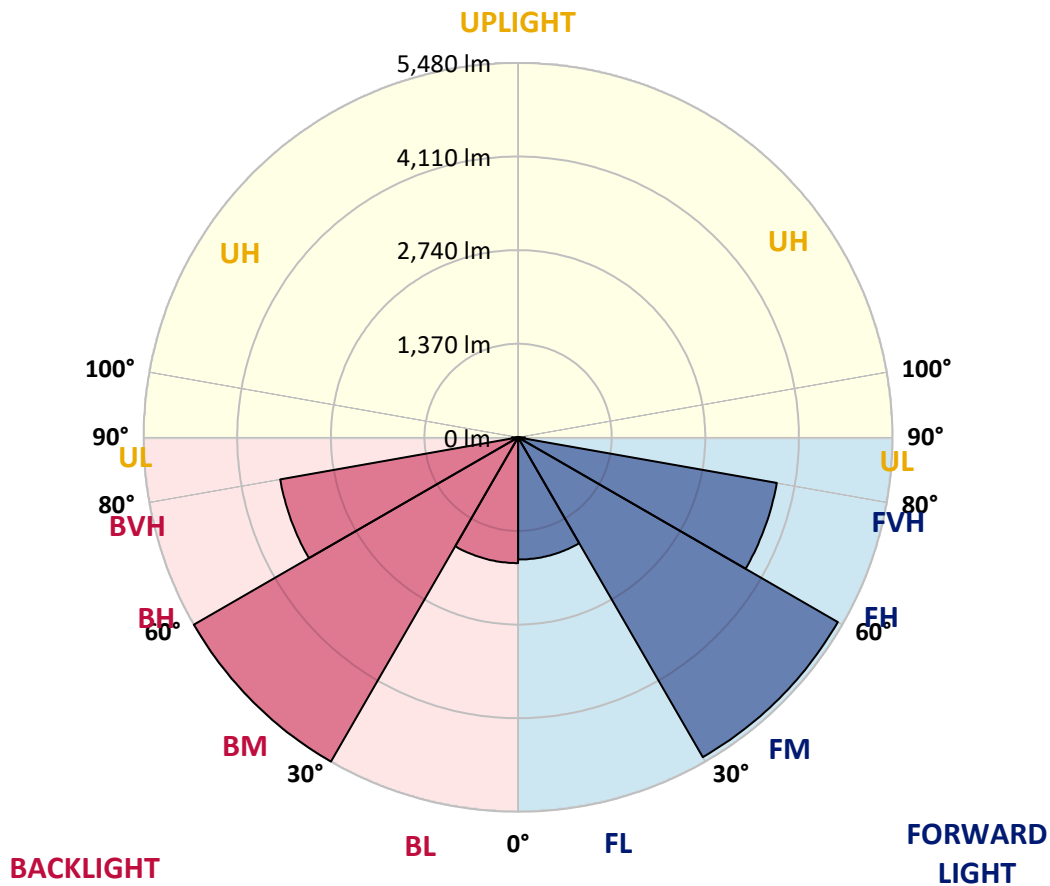
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.9	8.1			
FM (30°-60°)	5405.3	24.5			
FH (60°-80°)	3845.8	17.4			G2/5000
FVH (80°-90°)	100.6	0.5			G2/225
BL (0°-30°)	1840.6	8.3	B3/2500		
BM (30°-60°)	5480.4	24.8	B4/8500		
BH (60°-80°)	3535.9	16.0	B4/5000		G4/5000
BVH (80°-90°)	90.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2
2.5°	3718.3	3715.1	3707.2	3731.0	3726.2	3727.8	3737.3	3731.0	3719.9	3700.9	3727.8
5°	3823.0	3821.4	3804.0	3818.3	3802.4	3791.3	3789.7	3773.8	3761.1	3740.5	3769.1
7.5°	3924.5	3922.9	3908.7	3934.1	3921.4	3908.7	3894.4	3862.7	3832.5	3802.4	3834.1
10°	4002.3	4000.7	3997.5	4034.0	4037.2	4041.9	4035.6	3981.6	3929.3	3892.8	3924.5
12.5°	4046.7	4051.4	4059.4	4126.0	4159.3	4191.0	4199.0	4154.5	4067.3	4015.0	4053.0
15°	4016.5	4026.1	4065.7	4186.3	4278.3	4349.7	4379.8	4343.3	4230.7	4143.4	4186.3
17.5°	3872.2	3880.1	3957.8	4141.9	4344.9	4509.9	4559.1	4536.8	4411.5	4305.2	4346.5
20°	3672.3	3689.8	3773.8	4030.8	4333.8	4620.9	4752.6	4744.7	4608.2	4444.8	4494.0
22.5°	3491.5	3512.1	3600.9	3884.9	4259.2	4649.5	4947.7	4968.3	4787.5	4584.4	4624.1
25°	3288.4	3307.5	3421.7	3712.0	4130.8	4627.3	5114.3	5207.9	4990.5	4744.7	4781.1
27.5°	3080.6	3094.9	3207.5	3516.9	3962.6	4586.0	5245.9	5471.2	5190.4	4855.7	4881.1
30°	2898.2	2917.2	3020.3	3321.7	3778.6	4503.5	5353.8	5752.0	5420.4	4981.0	5001.6
32.5°	2722.1	2738.0	2850.6	3129.8	3583.5	4376.6	5450.6	6081.9	5761.5	5214.2	5214.2
35°	2500.0	2528.6	2655.5	2945.8	3399.5	4208.5	5520.4	6465.8	6227.9	5558.4	5560.0
37.5°	2295.4	2311.3	2444.5	2738.0	3205.9	4018.1	5526.7	6864.0	6818.0	5996.3	5999.4
40°	2062.2	2082.8	2225.6	2515.9	2983.9	3818.3	5466.4	7235.2	7436.6	6446.8	6429.3
42.5°	1825.8	1856.0	1992.4	2276.4	2744.3	3574.0	5306.2	7588.9	8221.9	6968.7	6925.8
45°	1597.4	1616.5	1752.9	2021.0	2469.9	3282.1	5049.2	7928.4	9154.6	7761.8	7700.0
47.5°	1340.4	1348.4	1489.5	1746.5	2185.9	2956.9	4681.2	8231.4	10179.4	8812.0	8705.7
50°	1112.0	1123.1	1234.2	1454.6	1838.5	2571.4	4222.8	8409.0	11484.9	10244.4	10060.4
52.5°	899.4	910.5	999.4	1175.5	1519.7	2132.0	3654.9	8367.8	12809.5	12022.7	11754.6
55°	726.5	734.5	794.7	932.8	1196.1	1695.8	2983.9	7998.2	14280.0	14345.0	13767.6
57.5°	613.9	617.1	658.3	742.4	934.3	1307.1	2303.3	7125.7	15821.9	17308.2	16359.6
60°	548.9	550.4	569.5	621.8	737.6	997.8	1687.8	5736.1	17419.3	21015.4	19714.7
62.5°	507.6	507.6	523.5	553.6	612.3	767.8	1240.5	4119.6	18566.2	25049.4	23756.6
65°	468.0	468.0	479.1	504.4	536.2	626.6	931.2	2657.1	19129.3	28421.9	28134.8
67.5°	417.2	418.8	426.7	453.7	482.2	523.5	705.9	1797.3	17960.2	29354.7	30807.7
70°	369.6	371.2	382.3	399.8	423.5	452.1	552.0	1238.9	13072.8	24448.2	27546.3
72.5°	317.3	323.6	331.5	350.6	364.9	385.5	450.5	802.7	7606.4	15726.7	18209.3
75°	260.2	268.1	277.6	296.6	306.2	314.1	371.2	572.7	3659.6	7969.6	9075.3
77.5°	201.5	209.4	220.5	237.9	244.3	253.8	283.9	414.0	1752.9	3532.7	3808.7
80°	134.8	138.0	147.5	168.1	179.3	185.6	209.4	282.4	761.4	1418.2	1405.5
82.5°	82.5	84.1	87.2	99.9	104.7	111.0	136.4	172.9	363.3	1611.7	1848.1
85°	30.1	28.6	27.0	34.9	41.2	47.6	63.5	87.2	158.6	1107.2	1238.9
87.5°	0.0	0.0	0.0	1.6	3.2	3.2	6.3	12.7	38.1	414.0	283.9
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°	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2
2.5°	3719.9	3702.5	3724.7	3740.5	3775.4	3788.1	3791.3	3780.2	3780.2	3761.1	3764.3
5°	3762.7	3751.6	3788.1	3815.1	3865.8	3884.9	3897.6	3889.6	3894.4	3881.7	3884.9
7.5°	3827.8	3818.3	3881.7	3934.1	3986.4	4008.6	4019.7	4013.4	4015.0	3999.1	4003.8
10°	3918.2	3921.4	3997.5	4065.7	4135.5	4157.7	4162.5	4143.4	4127.6	4099.0	4100.6
12.5°	4041.9	4057.8	4165.7	4241.8	4313.2	4344.9	4310.0	4240.2	4175.2	4126.0	4119.6
15°	4176.8	4205.3	4360.8	4457.5	4535.3	4519.4	4416.3	4259.2	4130.8	4057.8	4043.5
17.5°	4338.6	4381.4	4576.5	4692.3	4758.9	4657.4	4441.7	4206.9	4027.6	3929.3	3910.3
20°	4490.8	4559.1	4804.9	4955.6	4963.6	4735.1	4430.6	4100.6	3875.4	3754.8	3729.4
22.5°	4630.4	4717.7	5044.5	5236.4	5133.3	4770.0	4362.4	3949.9	3691.3	3550.2	3528.0
25°	4782.7	4906.5	5323.7	5502.9	5303.0	4755.8	4219.6	3762.7	3469.3	3324.9	3309.0
27.5°	4887.4	5042.9	5604.4	5775.8	5442.6	4674.9	4035.6	3558.1	3266.2	3129.8	3107.6
30°	5008.0	5206.3	5913.8	6072.4	5528.3	4555.9	3838.9	3367.7	3077.4	2929.9	2914.1
32.5°	5226.9	5475.9	6297.7	6386.5	5555.3	4408.4	3650.1	3183.7	2880.7	2733.2	2711.0
35°	5579.1	5870.9	6837.0	6737.1	5534.6	4246.6	3470.8	2968.0	2679.3	2541.3	2519.1
37.5°	6023.2	6386.5	7438.2	7052.7	5477.5	4068.9	3258.3	2787.1	2498.4	2358.8	2346.2
40°	6437.3	6884.6	8112.4	7325.6	5361.7	3850.0	3053.6	2598.4	2303.3	2155.8	2127.2
42.5°	6956.0	7550.8	8892.9	7561.9	5171.4	3588.2	2823.6	2365.2	2059.0	1925.8	1890.9
45°	7744.4	8483.6	9800.2	7788.8	4887.4	3266.2	2534.9	2081.2	1790.9	1654.5	1627.6
47.5°	8727.9	9649.5	10783.7	7923.6	4455.9	2926.7	2208.1	1781.4	1491.1	1337.3	1324.6
50°	10109.6	11345.3	11838.6	7899.8	3973.7	2523.8	1840.1	1424.5	1181.8	1070.8	1053.3
52.5°	11792.6	13474.1	12979.2	7614.3	3461.3	2065.4	1434.0	1118.3	937.5	858.2	843.9
55°	13904.0	16023.3	14180.0	7002.0	2814.1	1581.6	1126.3	882.0	758.3	710.7	704.3
57.5°	16518.3	19324.4	15336.5	5970.9	2116.1	1207.2	867.7	728.1	669.4	640.9	639.3
60°	19968.5	22828.6	16340.6	4640.0	1514.9	923.2	717.0	650.4	604.4	585.3	583.8
62.5°	24070.7	26010.7	16965.6	3159.9	1139.0	736.0	631.4	590.1	563.1	552.0	550.4
65°	28287.1	28022.2	16667.4	2070.1	864.5	625.0	566.3	544.1	520.3	509.2	509.2
67.5°	30777.6	27597.1	14378.3	1437.2	685.3	548.9	510.8	490.2	450.5	441.0	441.0
70°	27260.8	22362.2	9424.3	1051.7	555.2	480.7	444.2	415.6	399.8	390.2	388.6
72.5°	18030.0	14551.2	5011.2	729.7	463.2	409.3	376.0	364.9	345.8	336.3	334.7
75°	8973.8	7642.8	2568.2	526.7	385.5	328.4	314.1	309.3	293.5	280.8	277.6
77.5°	3740.5	3402.6	1197.7	382.3	293.5	264.9	252.2	252.2	234.8	220.5	214.2
80°	1410.2	1256.4	566.3	261.7	217.3	196.7	188.8	182.4	168.1	150.7	141.2
82.5°	1886.1	1232.6	277.6	163.4	142.8	126.9	115.8	111.0	103.1	95.2	88.8
85°	1221.5	875.6	125.3	84.1	71.4	53.9	47.6	44.4	39.7	34.9	31.7
87.5°	249.1	293.5	38.1	15.9	9.5	4.8	4.8	1.6	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)