

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: P635737

Luminaire Tested: GWS-SA3E-735-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635737  
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-SA3E-735-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

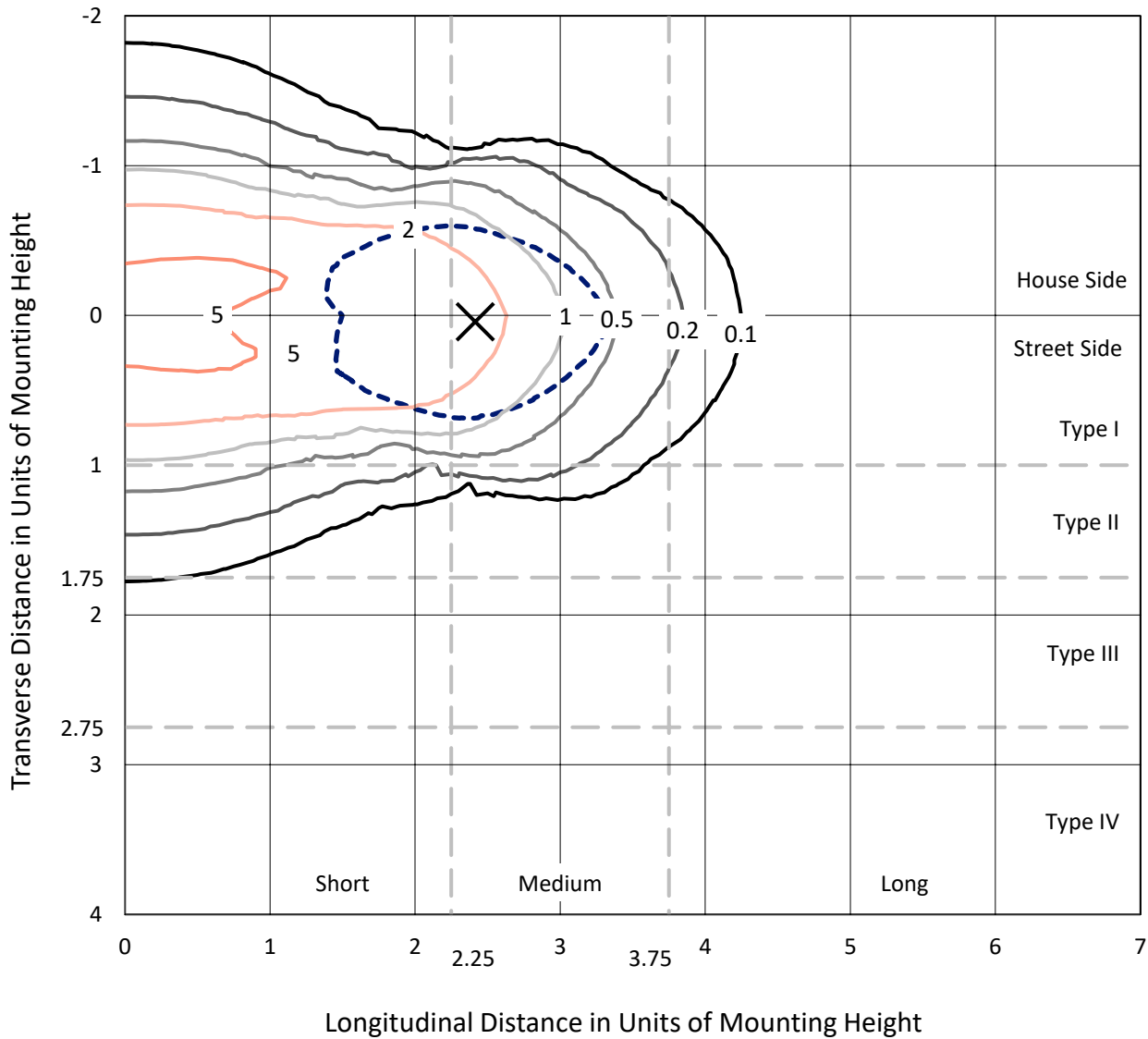
Lumens per Lamp: N/A  
Luminaire Lumens: 21650.5 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

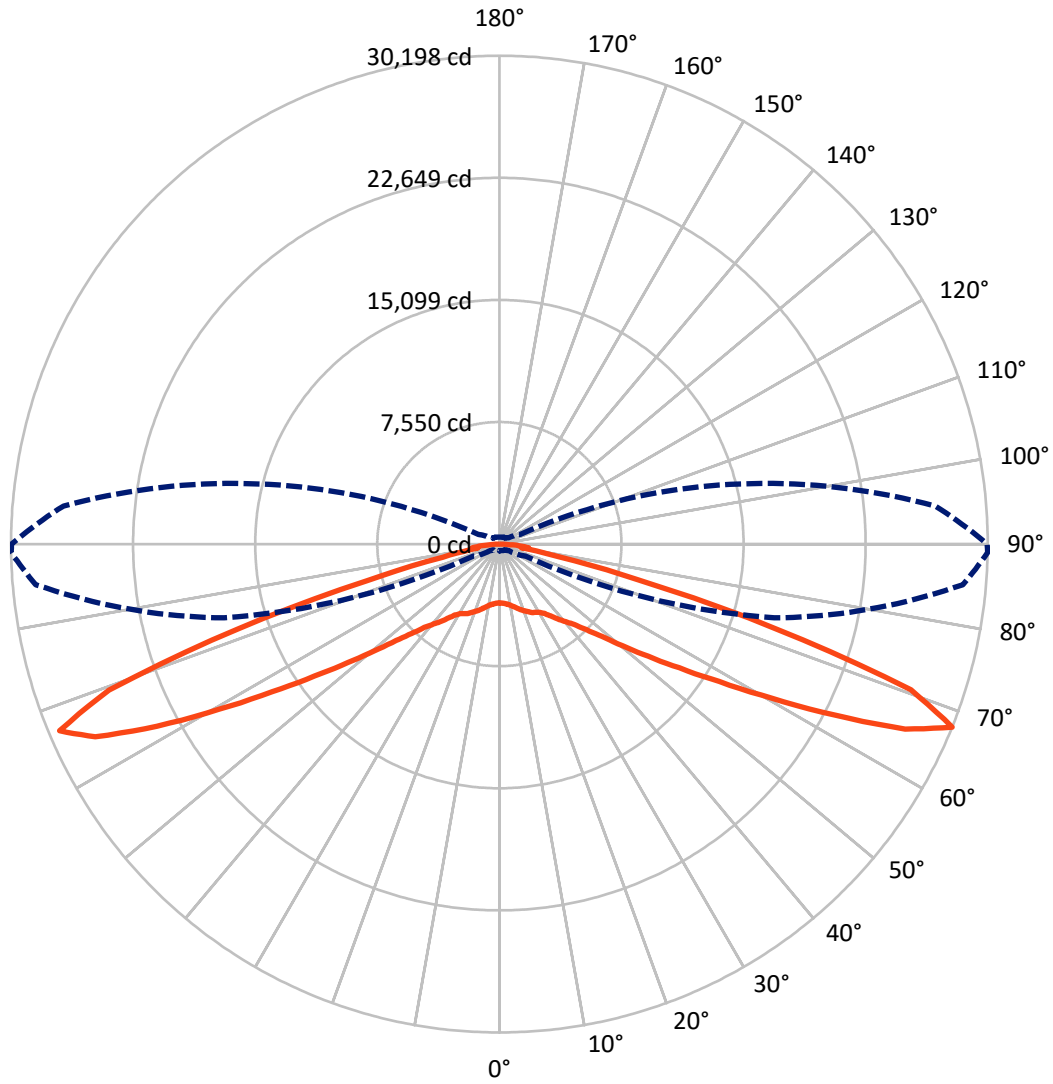
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	10730.4	0.0	10730.4
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	10920.1	0.0	10920.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	21650.5	0.0	21650.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.5	1.7
10°-20°	1186.9	5.5
20°-30°	2006.4	9.3
30°-40°	2753.5	12.7
40°-50°	3511.3	16.2
50°-60°	4405.5	20.3
60°-70°	5313.4	24.5
70°-80°	1922.2	8.9
80°-90°	186.9	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°	21650.5	100.0
0°-180°	21650.5	100.0

**Coefficient of Utilization**



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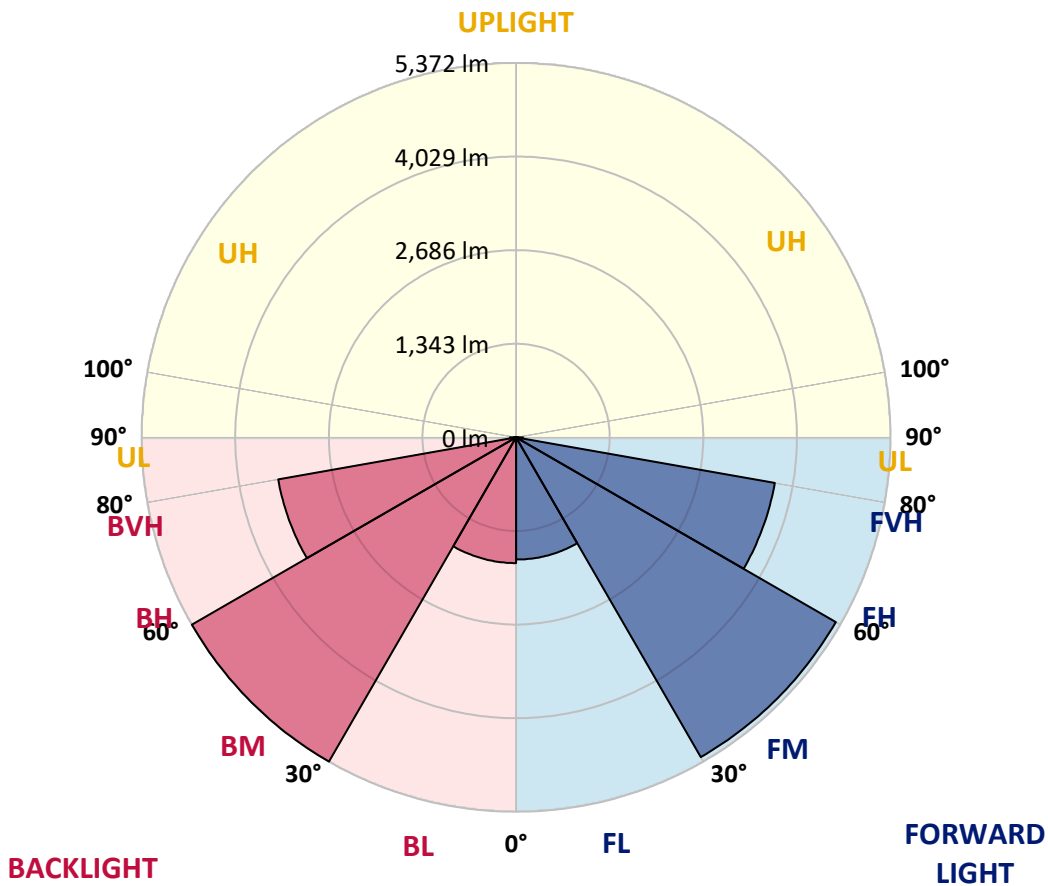
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1753.5	8.1			
FM (30°-60°)	5298.3	24.5			
FH (60°-80°)	3769.7	17.4			G2/5000
FVH (80°-90°)	98.6	0.5			G1/100
BL (0°-30°)	1804.2	8.3	B3/2500		
BM (30°-60°)	5371.9	24.8	B4/8500		
BH (60°-80°)	3465.9	16.0	B4/5000		G4/5000
BVH (80°-90°)	88.3	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°	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9
2.5°	3644.7	3641.6	3633.9	3657.2	3652.5	3654.1	3663.4	3657.2	3646.3	3627.6	3654.1
5°	3747.4	3745.8	3728.7	3742.7	3727.2	3716.3	3714.7	3699.2	3686.7	3666.5	3694.5
7.5°	3846.9	3845.3	3831.3	3856.2	3843.8	3831.3	3817.3	3786.2	3756.7	3727.2	3758.3
10°	3923.1	3921.5	3918.4	3954.2	3957.3	3962.0	3955.7	3902.9	3851.6	3815.8	3846.9
12.5°	3966.6	3971.3	3979.1	4044.4	4077.0	4108.1	4115.9	4072.4	3986.8	3935.5	3972.8
15°	3937.1	3946.4	3985.3	4103.4	4193.6	4263.6	4293.2	4257.4	4147.0	4061.5	4103.4
17.5°	3795.6	3803.3	3879.5	4059.9	4258.9	4420.7	4468.9	4447.1	4324.2	4220.1	4260.5
20°	3599.7	3616.8	3699.2	3951.1	4248.1	4529.5	4658.6	4650.8	4517.1	4356.9	4405.1
22.5°	3422.4	3442.6	3529.7	3808.0	4175.0	4557.5	4849.8	4870.0	4692.8	4493.7	4532.6
25°	3223.4	3242.0	3354.0	3638.5	4049.0	4535.7	5013.1	5104.8	4891.8	4650.8	4686.5
27.5°	3019.7	3033.7	3144.1	3447.3	3884.2	4495.3	5142.1	5362.9	5087.7	4759.6	4784.5
30°	2840.8	2859.5	2960.6	3256.0	3703.8	4414.4	5247.9	5638.2	5313.2	4882.5	4902.7
32.5°	2668.3	2683.8	2794.2	3067.9	3512.6	4290.0	5342.7	5961.6	5647.5	5111.0	5111.0
35°	2450.6	2478.6	2602.9	2887.5	3332.2	4125.2	5411.1	6337.9	6104.6	5448.5	5450.0
37.5°	2250.0	2265.5	2396.1	2683.8	3142.5	3938.6	5417.4	6728.2	6683.1	5877.6	5880.7
40°	2021.4	2041.6	2181.6	2466.1	2924.8	3742.7	5358.3	7092.0	7289.5	6319.2	6302.1
42.5°	1789.7	1819.3	1953.0	2231.3	2690.0	3503.2	5201.2	7438.8	8059.2	6830.8	6788.8
45°	1565.8	1584.5	1718.2	1981.0	2421.0	3217.1	4949.3	7771.5	8973.5	7608.3	7547.6
47.5°	1313.9	1321.7	1460.1	1712.0	2142.7	2898.4	4588.6	8068.5	9978.0	8637.6	8533.4
50°	1090.0	1100.9	1209.7	1425.9	1802.2	2520.5	4139.2	8242.7	11257.7	10041.7	9861.3
52.5°	881.6	892.5	979.6	1152.2	1489.6	2089.8	3582.5	8202.2	12556.0	11784.8	11522.0
55°	712.2	719.9	779.0	914.3	1172.4	1662.2	2924.8	7839.9	13997.4	14061.2	13495.2
57.5°	601.8	604.9	645.3	727.7	915.9	1281.3	2257.8	6984.7	15508.8	16965.8	16036.0
60°	538.0	539.6	558.2	609.5	723.0	978.0	1654.4	5622.6	17074.6	20599.7	19324.6
62.5°	497.6	497.6	513.1	542.7	600.2	752.6	1216.0	4038.1	18198.9	24553.8	23286.6
65°	458.7	458.7	469.6	494.5	525.6	614.2	912.7	2604.5	18750.9	27859.6	27578.2
67.5°	408.9	410.5	418.3	444.7	472.7	513.1	691.9	1761.7	17604.9	28773.9	30198.2
70°	362.3	363.9	374.7	391.8	415.2	443.2	541.1	1214.4	12814.1	23964.5	27001.3
72.5°	311.0	317.2	325.0	343.6	357.6	377.8	441.6	786.8	7455.9	15415.5	17849.0
75°	255.0	262.8	272.1	290.8	300.1	307.9	363.9	561.3	3587.2	7811.9	8895.7
77.5°	197.5	205.3	216.1	233.2	239.5	248.8	278.3	405.8	1718.2	3462.8	3733.4
80°	132.2	135.3	144.6	164.8	175.7	181.9	205.3	276.8	746.4	1390.1	1377.7
82.5°	80.9	82.4	85.5	98.0	102.6	108.8	133.7	169.5	356.1	1579.8	1811.5
85°	29.5	28.0	26.4	34.2	40.4	46.6	62.2	85.5	155.5	1085.3	1214.4
87.5°	0.0	0.0	0.0	1.6	3.1	3.1	6.2	12.4	37.3	405.8	278.3
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°	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9
2.5°	3646.3	3629.2	3651.0	3666.5	3700.7	3713.2	3716.3	3705.4	3705.4	3686.7	3689.8
5°	3688.3	3677.4	3713.2	3739.6	3789.4	3808.0	3820.5	3812.7	3817.3	3804.9	3808.0
7.5°	3752.0	3742.7	3804.9	3856.2	3907.5	3929.3	3940.2	3934.0	3935.5	3920.0	3924.6
10°	3840.7	3843.8	3918.4	3985.3	4053.7	4075.5	4080.1	4061.5	4045.9	4017.9	4019.5
12.5°	3962.0	3977.5	4083.2	4157.9	4227.8	4258.9	4224.7	4156.3	4092.6	4044.4	4038.1
15°	4094.1	4122.1	4274.5	4369.3	4445.5	4430.0	4328.9	4175.0	4049.0	3977.5	3963.5
17.5°	4252.7	4294.7	4486.0	4599.5	4664.8	4565.3	4353.8	4123.7	3948.0	3851.6	3832.9
20°	4402.0	4468.9	4709.9	4857.6	4865.4	4641.5	4342.9	4019.5	3798.7	3680.5	3655.6
22.5°	4538.8	4624.3	4944.7	5132.8	5031.7	4675.7	4276.0	3871.8	3618.3	3479.9	3458.2
25°	4688.1	4809.4	5218.3	5394.0	5198.1	4661.7	4136.1	3688.3	3400.6	3259.1	3243.6
27.5°	4790.7	4943.1	5493.6	5661.5	5335.0	4582.4	3955.7	3487.7	3201.6	3067.9	3046.1
30°	4908.9	5103.3	5796.8	5952.3	5418.9	4465.7	3762.9	3301.1	3016.6	2871.9	2856.4
32.5°	5123.5	5367.6	6173.1	6260.1	5445.4	4321.1	3577.9	3120.7	2823.7	2679.1	2657.4
35°	5468.7	5754.8	6701.7	6603.8	5425.1	4162.5	3402.2	2909.3	2626.3	2491.0	2469.2
37.5°	5904.1	6260.1	7291.0	6913.2	5369.2	3988.4	3193.8	2732.0	2449.0	2312.2	2299.7
40°	6309.9	6748.4	7951.9	7180.6	5255.6	3773.8	2993.2	2547.0	2257.8	2113.1	2085.2
42.5°	6818.4	7401.4	8716.9	7412.3	5069.1	3517.2	2767.8	2318.4	2018.3	1887.7	1853.5
45°	7591.1	8315.7	9606.3	7634.7	4790.7	3201.6	2484.8	2040.1	1755.5	1621.8	1595.4
47.5°	8555.2	9458.6	10570.4	7766.9	4367.8	2868.8	2164.5	1746.2	1461.6	1310.8	1298.4
50°	9909.5	11120.8	11604.4	7743.5	3895.1	2473.9	1803.7	1396.3	1158.4	1049.6	1032.5
52.5°	11559.3	13207.5	12722.4	7463.6	3392.8	2024.5	1405.7	1096.2	919.0	841.2	827.2
55°	13628.9	15706.3	13899.5	6863.4	2758.4	1550.3	1104.0	864.5	743.3	696.6	690.4
57.5°	16191.4	18942.1	15033.0	5852.7	2074.3	1183.3	850.5	713.7	656.2	628.2	626.6
60°	19573.4	22376.9	16017.3	4548.2	1485.0	905.0	702.8	637.5	592.4	573.8	572.2
62.5°	23594.4	25496.1	16629.9	3097.4	1116.4	721.5	618.9	578.4	552.0	541.1	539.6
65°	27727.4	27467.8	16337.6	2029.2	847.4	612.6	555.1	533.3	510.0	499.1	499.1
67.5°	30168.7	27051.0	14093.8	1408.8	671.7	538.0	500.7	480.5	441.6	432.3	432.3
70°	26721.4	21919.8	9237.8	1030.9	544.2	471.1	435.4	407.4	391.8	382.5	381.0
72.5°	17673.3	14263.3	4912.0	715.3	454.0	401.2	368.5	357.6	339.0	329.6	328.1
75°	8796.2	7491.6	2517.4	516.2	377.8	321.9	307.9	303.2	287.7	275.2	272.1
77.5°	3666.5	3335.3	1174.0	374.7	287.7	259.7	247.2	247.2	230.1	216.1	209.9
80°	1382.3	1231.5	555.1	256.6	213.0	192.8	185.0	178.8	164.8	147.7	138.4
82.5°	1848.8	1208.2	272.1	160.2	139.9	124.4	113.5	108.8	101.1	93.3	87.1
85°	1197.3	858.3	122.8	82.4	70.0	52.9	46.6	43.5	38.9	34.2	31.1
87.5°	244.1	287.7	37.3	15.5	9.3	4.7	4.7	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)