

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: P638047

Luminaire Tested: GWS-SA4E-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638047
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-SA4E-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22500.5 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

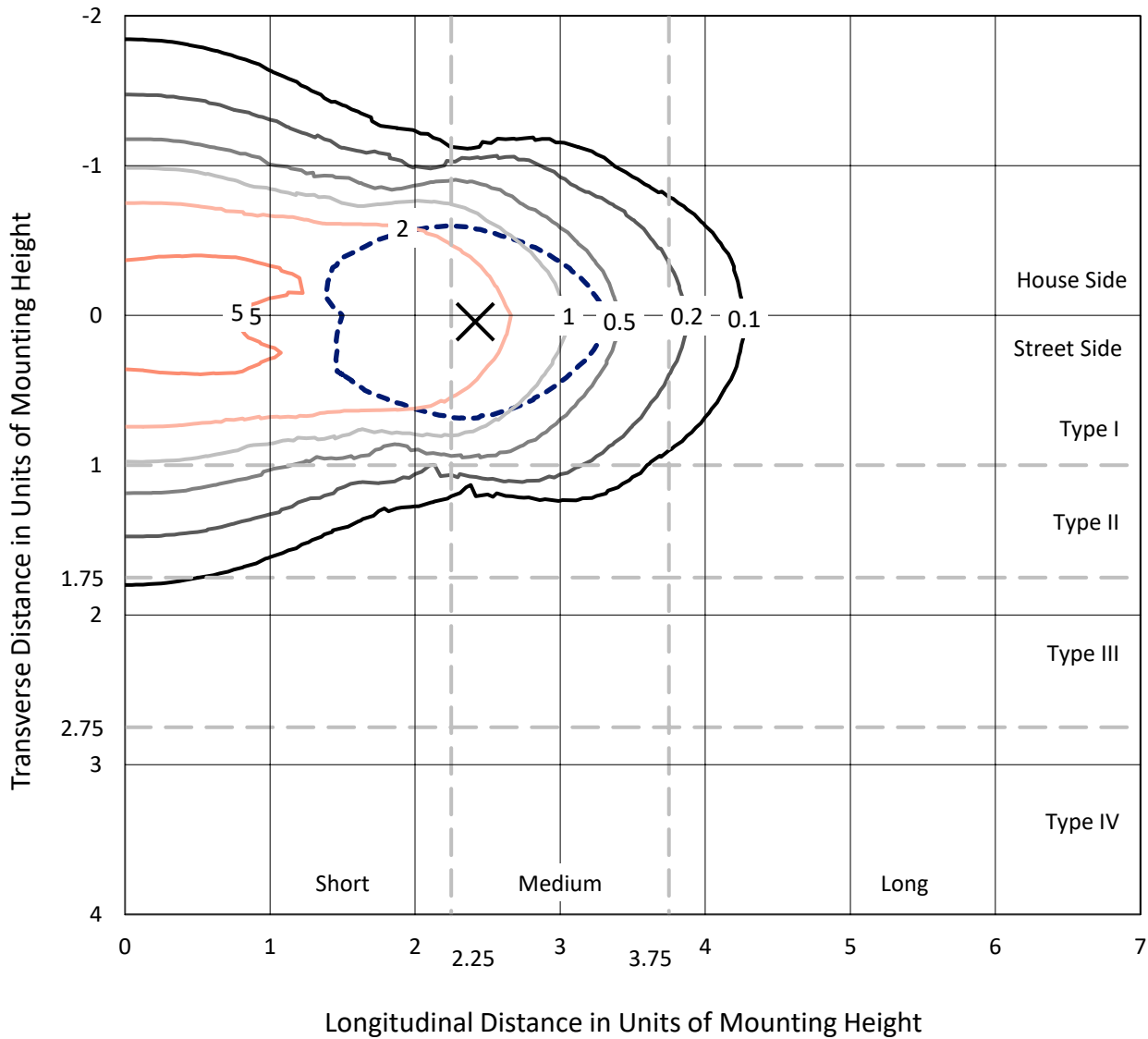
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

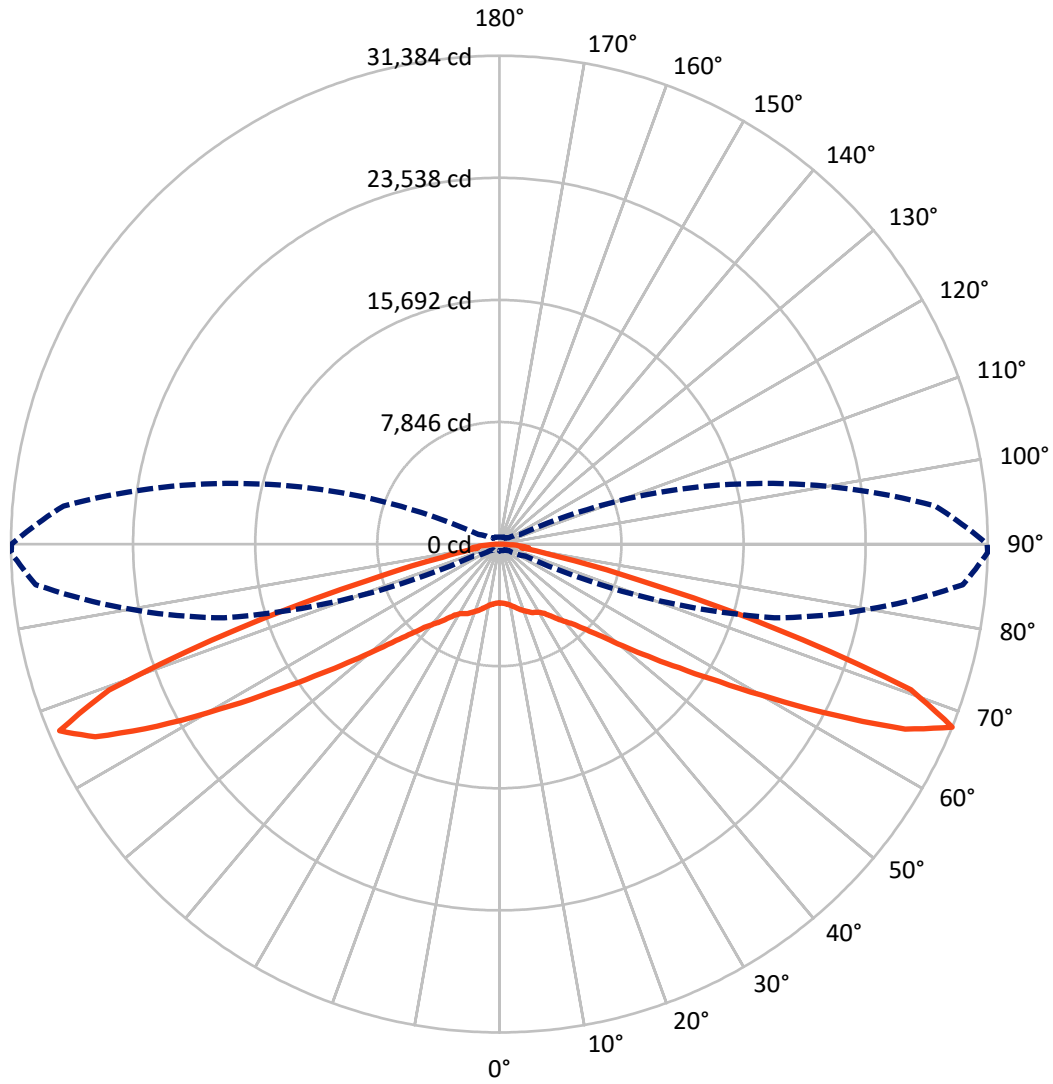
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	11151.6	0.0	11151.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11348.9	0.0	11348.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	22500.5	0.0	22500.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.8	1.7
10°-20°	1233.5	5.5
20°-30°	2085.1	9.3
30°-40°	2861.6	12.7
40°-50°	3649.1	16.2
50°-60°	4578.4	20.3
60°-70°	5522.0	24.5
70°-80°	1997.7	8.9
80°-90°	194.3	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°	22500.5	100.0
0°-180°	22500.5	100.0

Coefficient of Utilization



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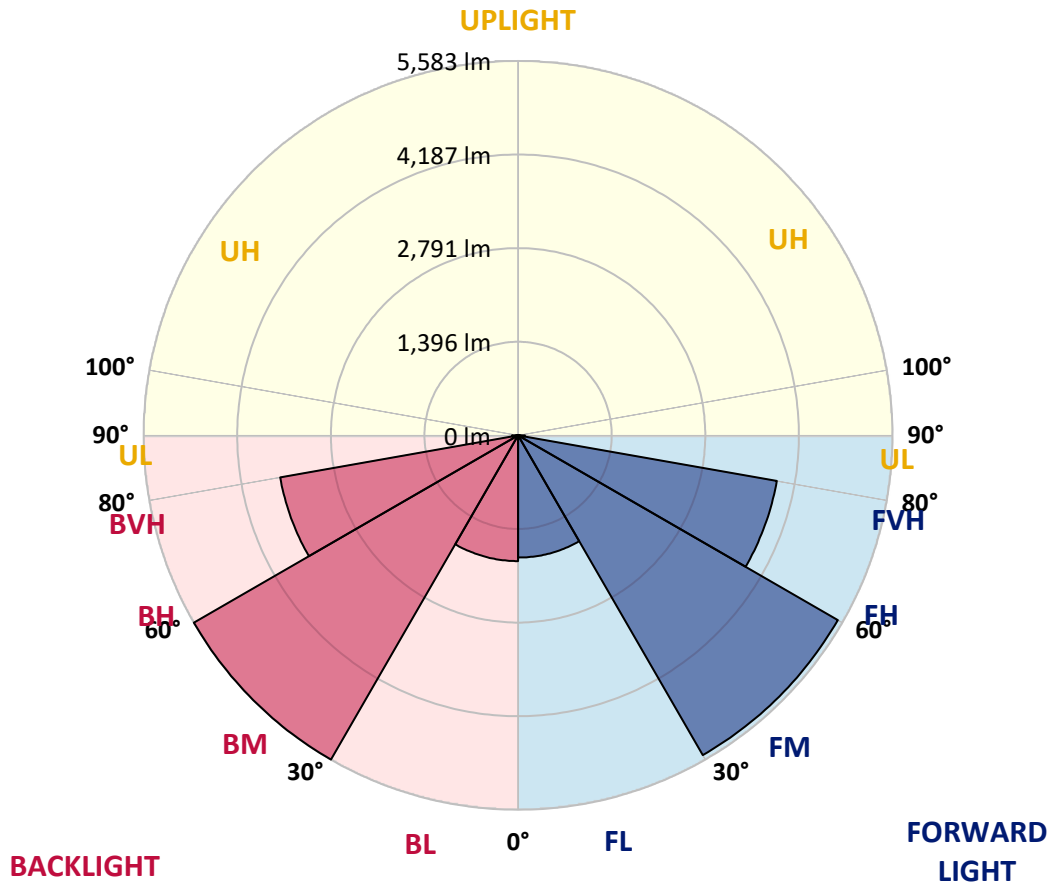
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.4	8.1			
FM (30°-60°)	5506.3	24.5			
FH (60°-80°)	3917.7	17.4			G2/5000
FVH (80°-90°)	102.5	0.5			G2/225
BL (0°-30°)	1875.1	8.3	B3/2500		
BM (30°-60°)	5582.8	24.8	B4/8500		
BH (60°-80°)	3602.0	16.0	B4/5000		G4/5000
BVH (80°-90°)	91.8	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°	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5
2.5°	3787.8	3784.6	3776.5	3800.8	3795.9	3797.5	3807.2	3800.8	3789.5	3770.1	3797.5
5°	3894.5	3892.9	3875.1	3889.6	3873.5	3862.2	3860.6	3844.4	3831.5	3810.5	3839.6
7.5°	3997.9	3996.3	3981.8	4007.6	3994.7	3981.8	3967.2	3934.9	3904.2	3873.5	3905.8
10°	4077.1	4075.5	4072.3	4109.4	4112.6	4117.5	4111.0	4056.1	4002.8	3965.6	3997.9
12.5°	4122.3	4127.2	4135.3	4203.1	4237.1	4269.4	4277.5	4232.2	4143.4	4090.0	4128.8
15°	4091.6	4101.3	4141.7	4264.6	4358.3	4431.0	4461.7	4424.5	4309.8	4220.9	4264.6
17.5°	3944.6	3952.7	4031.9	4219.3	4426.1	4594.2	4644.3	4621.7	4494.0	4385.7	4427.8
20°	3741.0	3758.8	3844.4	4106.2	4414.8	4707.3	4841.5	4833.4	4694.4	4528.0	4578.1
22.5°	3556.8	3577.8	3668.3	3957.5	4338.9	4736.4	5040.2	5061.2	4877.0	4670.2	4710.6
25°	3349.9	3369.3	3485.7	3781.4	4208.0	4713.8	5209.9	5305.2	5083.8	4833.4	4870.5
27.5°	3138.2	3152.8	3267.5	3582.6	4036.7	4671.8	5344.0	5573.5	5287.5	4946.5	4972.3
30°	2952.4	2971.8	3076.8	3383.8	3849.2	4587.7	5453.9	5859.5	5521.8	5074.2	5095.2
32.5°	2773.0	2789.2	2903.9	3188.3	3650.5	4458.5	5552.5	6195.6	5869.2	5311.7	5311.7
35°	2546.8	2575.9	2705.1	3000.9	3463.0	4287.2	5623.6	6586.7	6344.3	5662.4	5664.0
37.5°	2338.3	2354.5	2490.2	2789.2	3265.9	4093.3	5630.0	6992.3	6945.4	6108.4	6111.6
40°	2100.8	2121.8	2267.2	2562.9	3039.6	3889.6	5568.6	7370.5	7575.7	6567.3	6549.5
42.5°	1860.0	1890.7	2029.7	2318.9	2795.6	3640.8	5405.4	7730.8	8375.6	7099.0	7055.3
45°	1627.3	1646.7	1785.6	2058.7	2516.1	3343.4	5143.6	8076.6	9325.8	7907.0	7843.9
47.5°	1365.5	1373.6	1517.4	1779.2	2226.8	3012.2	4768.7	8385.3	10369.7	8976.7	8868.5
50°	1132.8	1144.1	1257.2	1481.8	1872.9	2619.5	4301.7	8566.3	11699.6	10436.0	10248.5
52.5°	916.3	927.6	1018.1	1197.4	1548.1	2171.9	3723.2	8524.3	13049.0	12247.5	11974.4
55°	740.1	748.2	809.6	950.2	1218.4	1727.5	3039.6	8147.7	14547.0	14613.2	14025.0
57.5°	625.4	628.6	670.6	756.3	951.8	1331.6	2346.4	7258.9	16117.7	17631.9	16665.5
60°	559.1	560.7	580.1	633.5	751.4	1016.4	1719.4	5843.4	17745.0	21408.4	20083.3
62.5°	517.1	517.1	533.3	564.0	623.8	782.1	1263.7	4196.7	18913.3	25517.8	24200.8
65°	476.7	476.7	488.0	513.9	546.2	638.3	948.6	2706.8	19487.0	28953.4	28660.9
67.5°	425.0	426.6	434.7	462.2	491.3	533.3	719.1	1830.9	18296.0	29903.6	31383.8
70°	376.5	378.1	389.4	407.2	431.5	460.6	562.4	1262.1	13317.2	24905.4	28061.4
72.5°	323.2	329.7	337.7	357.1	371.7	392.7	458.9	817.7	7748.6	16020.8	18549.7
75°	265.0	273.1	282.8	302.2	311.9	320.0	378.1	583.4	3728.0	8118.6	9245.0
77.5°	205.2	213.3	224.6	242.4	248.9	258.6	289.3	421.8	1785.6	3598.8	3879.9
80°	137.4	140.6	150.3	171.3	182.6	189.1	213.3	287.6	775.7	1444.7	1431.8
82.5°	84.0	85.6	88.9	101.8	106.7	113.1	139.0	176.1	370.1	1641.8	1882.6
85°	30.7	29.1	27.5	35.6	42.0	48.5	64.6	88.9	161.6	1127.9	1262.1
87.5°	0.0	0.0	0.0	1.6	3.2	3.2	6.5	12.9	38.8	421.8	289.3
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°	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5	3776.5
2.5°	3789.5	3771.7	3794.3	3810.5	3846.0	3858.9	3862.2	3850.9	3850.9	3831.5	3834.7
5°	3833.1	3821.8	3858.9	3886.4	3938.1	3957.5	3970.4	3962.4	3967.2	3954.3	3957.5
7.5°	3899.3	3889.6	3954.3	4007.6	4060.9	4083.6	4094.9	4088.4	4090.0	4073.9	4078.7
10°	3991.5	3994.7	4072.3	4141.7	4212.8	4235.5	4240.3	4220.9	4204.8	4175.7	4177.3
12.5°	4117.5	4133.7	4243.5	4321.1	4393.8	4426.1	4390.6	4319.5	4253.2	4203.1	4196.7
15°	4254.9	4283.9	4442.3	4540.9	4620.1	4603.9	4498.9	4338.9	4208.0	4133.7	4119.1
17.5°	4419.7	4463.3	4662.1	4780.0	4847.9	4744.5	4524.7	4285.6	4103.0	4002.8	3983.4
20°	4574.8	4644.3	4894.8	5048.3	5056.4	4823.7	4513.4	4177.3	3947.8	3825.0	3799.2
22.5°	4717.0	4805.9	5138.8	5334.3	5229.3	4859.2	4443.9	4023.8	3760.4	3616.5	3593.9
25°	4872.2	4998.2	5423.2	5605.8	5402.2	4844.7	4298.5	3833.1	3534.1	3387.1	3370.9
27.5°	4978.8	5137.2	5709.2	5883.8	5544.4	4762.3	4111.0	3624.6	3327.3	3188.3	3165.7
30°	5101.6	5303.6	6024.3	6185.9	5631.7	4641.1	3910.7	3430.7	3135.0	2984.7	2968.5
32.5°	5324.6	5578.3	6415.4	6505.9	5659.1	4490.8	3718.4	3243.3	2934.6	2784.3	2761.7
35°	5683.4	5980.7	6964.8	6863.0	5638.1	4326.0	3535.7	3023.5	2729.4	2588.8	2566.2
37.5°	6135.8	6505.9	7577.3	7184.6	5580.0	4145.0	3319.2	2839.3	2545.2	2403.0	2390.0
40°	6557.6	7013.3	8264.1	7462.6	5462.0	3922.0	3110.7	2647.0	2346.4	2196.1	2167.0
42.5°	7086.0	7692.0	9059.1	7703.3	5268.1	3655.3	2876.4	2409.4	2097.5	1961.8	1926.2
45°	7889.2	8642.2	9983.5	7934.4	4978.8	3327.3	2582.3	2120.2	1824.4	1685.5	1658.0
47.5°	8891.1	9830.0	10985.4	8071.8	4539.3	2981.5	2249.4	1814.7	1519.0	1362.3	1349.3
50°	10298.6	11557.4	12060.0	8047.5	4048.0	2571.0	1874.5	1451.1	1203.9	1090.8	1073.0
52.5°	12013.1	13726.1	13221.9	7756.7	3526.1	2104.0	1460.8	1139.3	955.0	874.2	859.7
55°	14164.0	16322.9	14445.2	7132.9	2866.7	1611.1	1147.3	898.5	772.4	724.0	717.5
57.5°	16827.1	19685.8	15623.2	6082.5	2155.7	1229.8	883.9	741.7	681.9	652.9	651.2
60°	20341.9	23255.5	16646.1	4726.7	1543.3	940.5	730.4	662.5	615.7	596.3	594.7
62.5°	24520.8	26497.1	17282.8	3219.0	1160.3	749.8	643.2	601.1	573.7	562.4	560.7
65°	28816.0	28546.2	16979.0	2108.8	880.7	636.7	576.9	554.3	530.0	518.7	518.7
67.5°	31353.1	28113.1	14647.2	1464.1	698.1	559.1	520.3	499.3	458.9	449.2	449.2
70°	27770.5	22780.4	9600.5	1071.4	565.6	489.6	452.5	423.4	407.2	397.5	395.9
72.5°	18367.1	14823.3	5104.9	743.3	471.9	416.9	383.0	371.7	352.3	342.6	341.0
75°	9141.6	7785.8	2616.3	536.5	392.7	334.5	320.0	315.1	299.0	286.0	282.8
77.5°	3810.5	3466.3	1220.1	389.4	299.0	269.9	256.9	256.9	239.2	224.6	218.2
80°	1436.6	1279.9	576.9	266.6	221.4	200.4	192.3	185.8	171.3	153.5	143.8
82.5°	1921.4	1255.6	282.8	166.4	145.4	129.3	118.0	113.1	105.0	97.0	90.5
85°	1244.3	892.0	127.7	85.6	72.7	54.9	48.5	45.2	40.4	35.6	32.3
87.5°	253.7	299.0	38.8	16.2	9.7	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)