

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: P638527

Luminaire Tested: GWS-SA4F-722-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-722-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

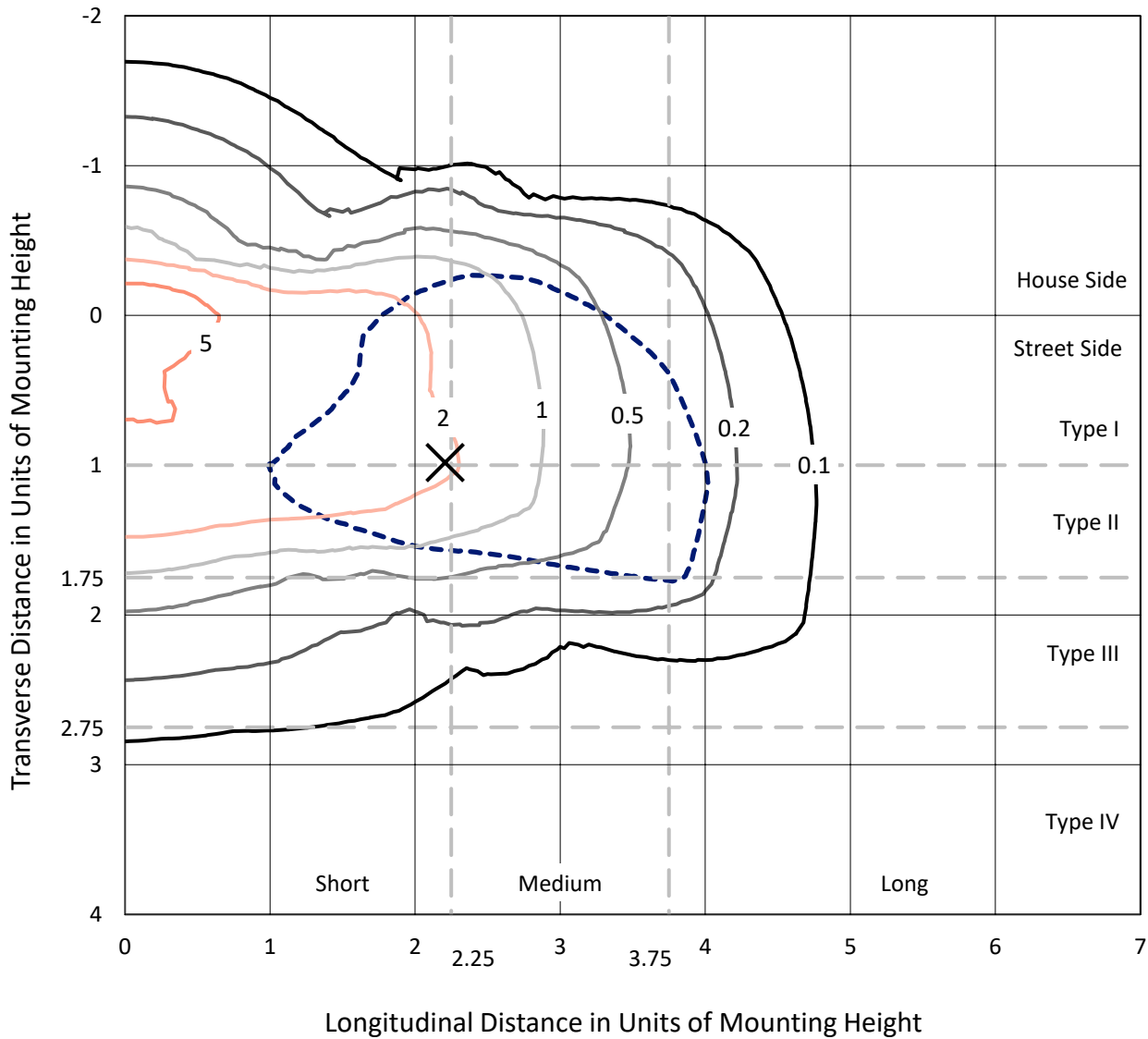
Lumens per Lamp: N/A  
Luminaire Lumens: 24628.4 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

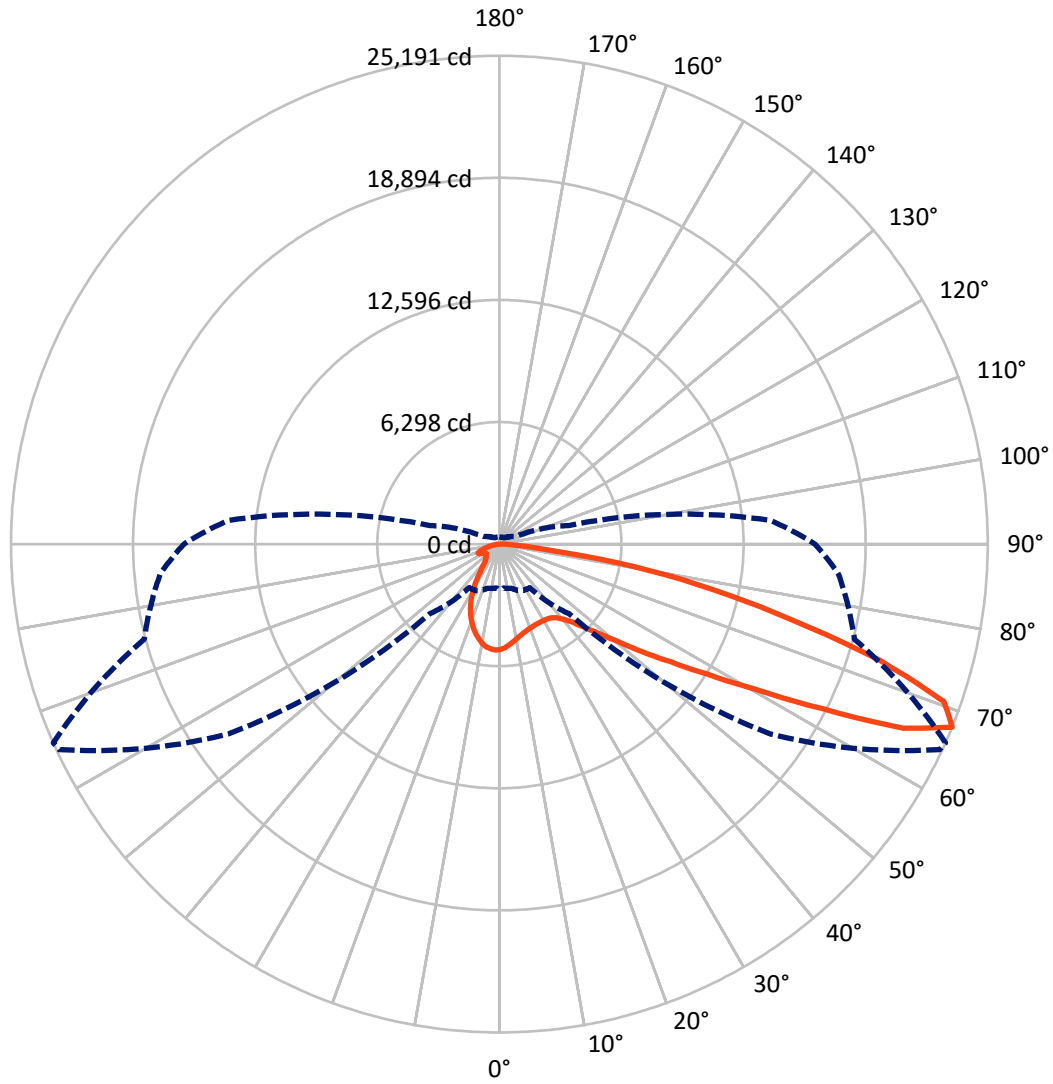
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4997.7	0.0	4997.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	19630.7	0.0	19630.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	24628.4	0.0	24628.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.6	1.9
10°-20°	1173.8	4.8
20°-30°	1613.4	6.6
30°-40°	2205.8	9.0
40°-50°	3342.4	13.6
50°-60°	5195.9	21.1
60°-70°	6325.9	25.7
70°-80°	3853.4	15.6
80°-90°	440.2	1.8
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°	24628.4	100.0
0°-180°	24628.4	100.0

**Coefficient of Utilization**



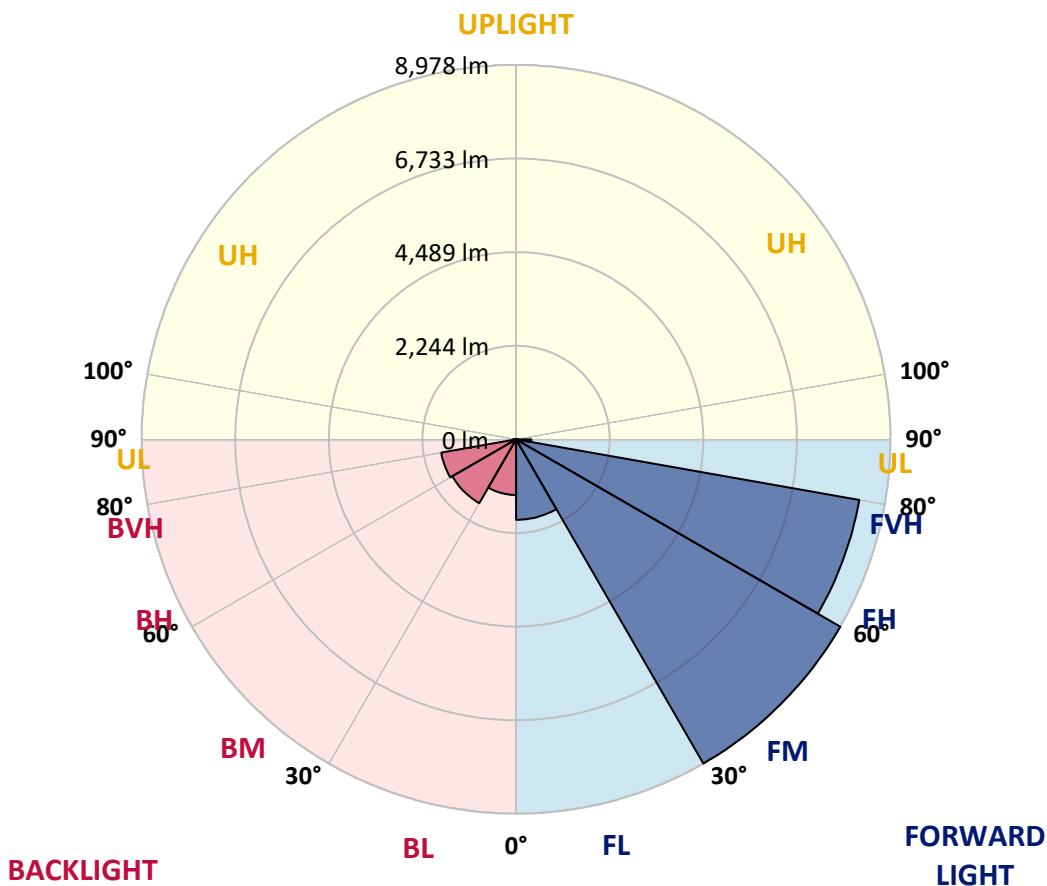
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.7	7.8			
FM (30°-60°)	8978.0	36.5			
FH (60°-80°)	8357.0	33.9			G4/12000
FVH (80°-90°)	365.9	1.5			G3/500
BL (0°-30°)	1335.1	5.4	B3/2500		
BM (30°-60°)	1766.1	7.2	B2/2500		
BH (60°-80°)	1822.2	7.4	B3/2500		G3/2500
BVH (80°-90°)	74.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2
2.5°	5097.2	5115.2	5104.4	5172.7	5176.3	5262.5	5311.0	5352.3	5355.9	5409.8	5445.8
5°	4748.7	4759.4	4759.4	4824.1	4867.2	4982.2	5093.6	5212.2	5221.2	5350.5	5449.4
7.5°	4466.6	4477.4	4470.2	4556.4	4612.1	4739.7	4881.6	5063.1	5081.0	5289.5	5461.9
10°	4245.6	4242.0	4260.0	4339.0	4410.9	4563.6	4721.7	4928.3	4955.3	5219.4	5476.3
12.5°	4094.7	4098.3	4109.0	4191.7	4268.9	4419.9	4583.4	4807.9	4836.7	5138.5	5469.1
15°	4022.8	4015.6	4024.6	4100.0	4173.7	4306.7	4475.6	4707.3	4736.1	5066.7	5470.9
17.5°	4006.6	4001.2	3999.4	4053.3	4109.0	4233.0	4394.7	4630.1	4660.6	5020.0	5481.7
20°	4056.9	4049.7	4030.0	4053.3	4076.7	4180.9	4337.2	4574.4	4608.5	4989.4	5503.3
22.5°	4195.3	4182.7	4152.2	4123.4	4092.9	4155.7	4301.3	4533.1	4567.2	4969.6	5524.8
25°	4405.5	4394.7	4362.4	4297.7	4186.3	4175.5	4294.1	4515.1	4549.2	4955.3	5533.8
27.5°	4694.8	4678.6	4646.2	4552.8	4371.3	4249.2	4321.0	4513.3	4545.6	4939.1	5524.8
30°	5037.9	5027.1	5009.2	4896.0	4653.4	4405.5	4382.1	4527.7	4552.8	4930.1	5506.9
32.5°	5386.5	5375.7	5390.1	5336.2	5037.9	4664.2	4515.1	4567.2	4585.2	4928.3	5490.7
35°	5693.7	5706.3	5810.5	5819.5	5526.6	5014.6	4725.3	4658.8	4662.4	4964.3	5497.9
37.5°	6015.3	6063.8	6200.4	6317.2	6072.8	5478.1	5037.9	4831.3	4827.7	5055.9	5542.8
40°	6441.1	6462.7	6637.0	6856.2	6703.5	6114.1	5481.7	5113.4	5088.2	5242.7	5663.2
42.5°	6856.2	6908.3	7186.8	7438.3	7388.0	6831.0	6040.5	5535.6	5490.7	5573.3	5911.1
45°	7384.4	7434.7	7747.3	8070.7	8162.4	7641.3	6755.6	6135.7	6090.8	6071.0	6365.7
47.5°	7912.6	7964.7	8245.0	8712.2	9033.8	8654.7	7686.2	6928.0	6854.4	6777.1	7052.0
50°	8268.4	8329.5	8597.2	9157.7	9912.3	9919.5	8789.4	7966.5	7873.1	7750.9	8018.6
52.5°	8255.8	8295.3	8550.5	9197.3	10544.8	11373.1	10266.3	9288.9	9213.4	8947.5	9181.1
55°	7607.2	7666.5	7923.4	8731.9	10613.1	12751.1	12436.7	10848.4	10713.7	10237.5	10494.5
57.5°	6304.6	6354.9	6613.6	7610.8	10007.6	13457.2	15192.8	12835.6	12650.5	11642.6	11939.0
60°	4759.4	4698.3	4820.5	5693.7	8559.4	13475.2	17625.5	15530.6	15221.6	13144.6	13392.5
62.5°	3571.8	3510.7	3537.7	3783.8	5803.3	12386.4	19012.6	19217.4	18707.1	14840.7	14792.2
65°	2822.6	2788.5	2865.7	3034.6	3383.2	9432.6	19023.4	23204.3	22882.7	16806.2	16227.7
67.5°	2299.8	2278.2	2357.3	2669.9	2743.5	5068.5	17057.8	25065.6	25191.4	18958.7	17559.1
70°	1852.4	1820.0	1944.0	2355.5	2551.3	3067.0	12219.3	24117.0	24320.0	20241.5	17183.6
72.5°	1279.2	1281.0	1343.9	1908.1	2463.3	2648.3	6911.9	20081.6	20521.8	19079.1	15106.6
75°	862.4	869.6	887.6	1259.5	2269.2	2569.3	3683.2	15203.6	15514.4	15769.6	12487.0
77.5°	521.0	524.6	566.0	761.8	1564.9	2398.6	2495.6	11020.9	11265.3	10395.7	7740.1
80°	301.8	314.4	352.2	510.3	1056.5	1802.1	1931.4	6757.4	7034.0	4621.1	2459.7
82.5°	133.0	141.9	192.2	296.5	616.3	1532.6	1507.4	2669.9	2630.4	1288.2	853.4
85°	23.4	28.7	41.3	93.4	226.4	808.5	1169.6	1178.6	1108.6	488.7	353.9
87.5°	0.0	0.0	0.0	0.0	0.0	5.4	176.1	316.2	314.4	138.3	122.2
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°	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2	5442.2
2.5°	5469.1	5420.6	5463.7	5469.1	5460.1	5453.0	5399.1	5352.3	5347.0	5296.6	5296.6
5°	5488.9	5444.0	5465.5	5424.2	5359.5	5293.1	5178.1	5099.0	5063.1	4998.4	4998.4
7.5°	5515.8	5469.1	5444.0	5341.6	5190.6	5045.1	4860.0	4705.5	4642.6	4551.0	4547.4
10°	5541.0	5481.7	5395.5	5196.0	4955.3	4723.5	4454.0	4234.8	4085.7	3976.1	3976.1
12.5°	5539.2	5461.9	5291.3	4996.6	4664.2	4328.2	3968.9	3638.3	3440.7	3270.0	3259.2
15°	5535.6	5429.6	5158.3	4764.8	4324.6	3859.3	3370.6	2939.4	2646.5	2479.4	2465.1
17.5°	5532.0	5388.3	5009.2	4500.7	3911.4	3277.2	2632.2	2165.0	1920.7	1818.3	1821.8
20°	5532.0	5341.6	4849.3	4197.1	3435.3	2580.0	1931.4	1591.9	1530.8	1536.2	1541.6
22.5°	5515.8	5284.1	4671.4	3866.5	2905.2	1897.3	1424.8	1309.8	1342.1	1392.4	1399.6
25°	5478.1	5188.8	4464.8	3500.0	2274.6	1381.7	1162.5	1140.9	1200.2	1263.1	1281.0
27.5°	5418.8	5079.2	4233.0	3070.5	1674.5	1110.4	1022.3	1020.5	1067.2	1113.9	1130.1
30°	5355.9	4957.1	3988.7	2592.6	1212.8	966.6	932.5	932.5	955.8	984.6	981.0
32.5°	5282.3	4833.1	3726.3	2094.9	988.2	885.8	875.0	869.6	873.2	884.0	884.0
35°	5219.4	4723.5	3456.8	1568.5	885.8	840.9	830.1	817.5	812.1	804.9	808.5
37.5°	5196.0	4637.3	3178.3	1182.2	835.5	808.5	790.5	772.6	760.0	756.4	754.6
40°	5233.8	4601.3	2899.9	973.8	799.5	774.4	754.6	731.3	720.5	720.5	720.5
42.5°	5381.1	4628.3	2616.0	880.4	774.4	745.6	716.9	695.3	691.7	695.3	697.1
45°	5650.6	4732.5	2321.3	833.7	752.8	716.9	682.7	666.6	666.6	670.2	670.2
47.5°	6132.1	5005.6	2030.3	804.9	731.3	693.5	657.6	641.4	639.6	643.2	643.2
50°	6965.8	5497.9	1767.9	785.2	715.1	675.6	639.6	618.1	612.7	610.9	610.9
52.5°	8016.8	6351.3	1600.9	770.8	695.3	655.8	619.9	591.1	580.3	574.9	574.9
55°	9287.1	7488.6	1600.9	760.0	670.2	632.4	591.1	562.4	546.2	539.0	539.0
57.5°	10726.2	8812.8	1877.5	751.0	650.4	605.5	560.6	531.8	513.9	503.1	503.1
60°	12190.5	10212.4	2562.1	738.4	632.4	571.3	526.4	499.5	476.1	463.5	461.7
62.5°	13708.8	11754.0	3464.0	745.6	619.9	539.0	490.5	460.0	440.2	427.6	425.8
65°	15099.4	13221.8	4252.8	801.3	621.7	510.3	449.2	422.2	406.1	389.9	388.1
67.5°	16279.8	14032.2	3699.4	914.5	659.4	476.1	407.8	380.9	366.5	355.7	353.9
70°	15453.3	12796.0	2098.5	984.6	711.5	440.2	361.1	343.2	328.8	321.6	319.8
72.5°	13214.7	10834.0	1403.2	869.6	648.6	393.5	318.0	303.6	292.9	283.9	282.1
75°	10704.7	8591.8	1072.6	713.3	504.9	319.8	273.1	262.3	251.5	242.6	240.8
77.5°	6333.3	4964.3	790.5	564.2	355.7	249.7	226.4	217.4	206.6	199.4	197.6
80°	2021.3	1724.8	501.3	388.1	235.4	192.2	174.3	167.1	156.3	147.3	145.5
82.5°	770.8	666.6	265.9	197.6	156.3	131.2	116.8	109.6	102.4	93.4	91.6
85°	341.4	319.8	147.3	106.0	84.4	64.7	57.5	53.9	44.9	37.7	35.9
87.5°	120.4	120.4	62.9	30.5	18.0	9.0	5.4	1.8	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)