

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: P638027

Luminaire Tested: GWS-SA4E-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19871.4 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

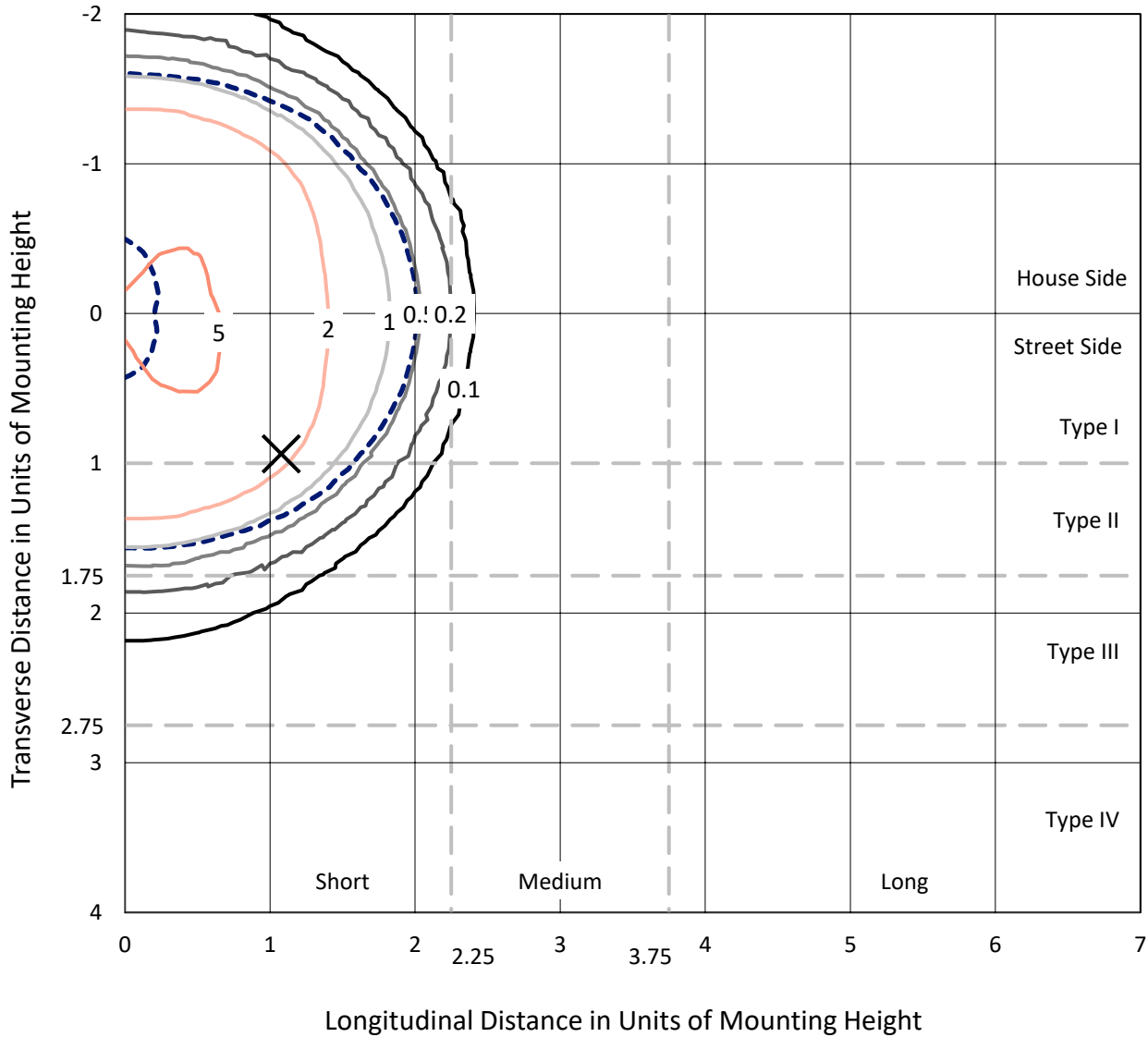
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

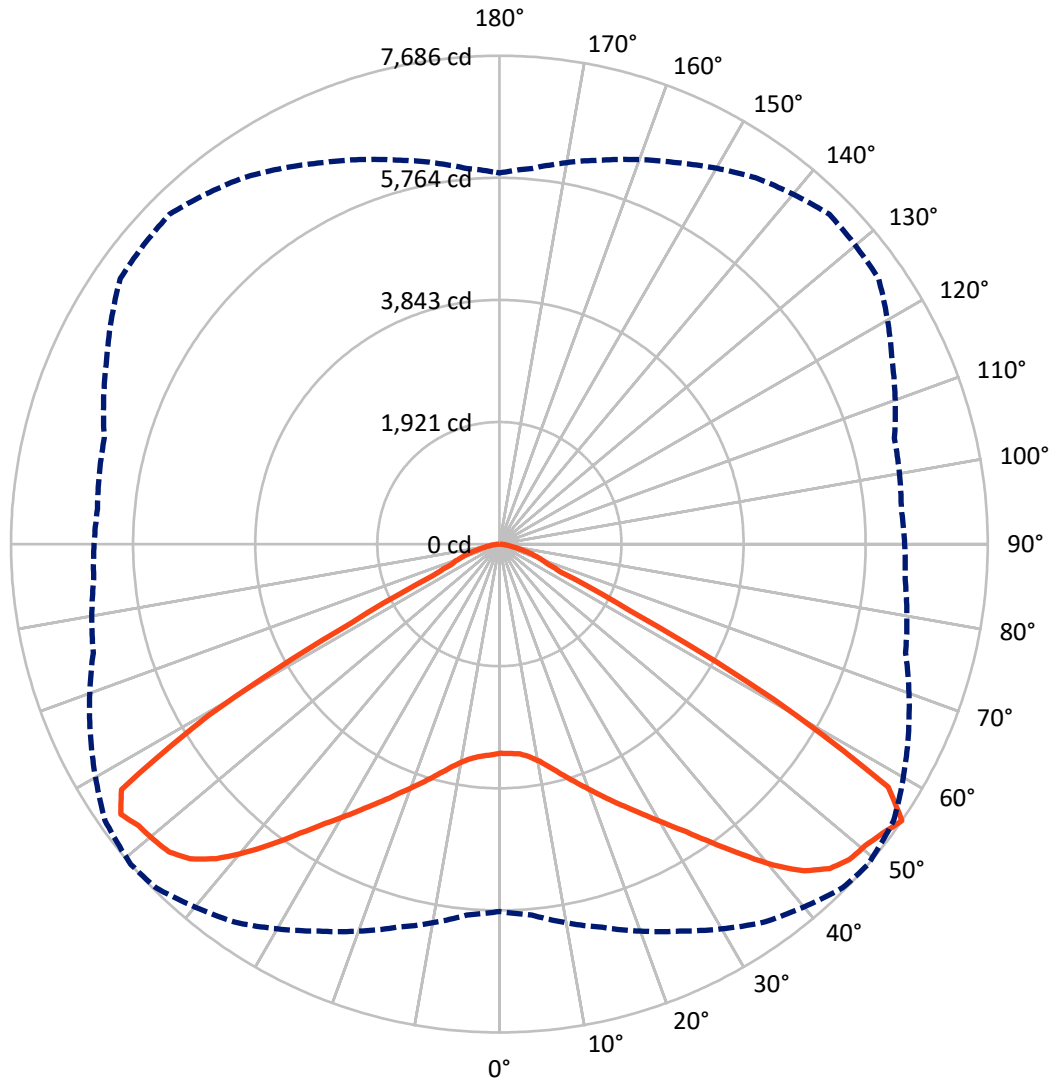
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.2	0.0	9838.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	10033.2	0.0	10033.2
	% Fixture	50.5	0.0	50.5
Total	Lumens	19871.4	0.0	19871.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	1.6
10°-20°	1059.2	5.3
20°-30°	2017.4	10.2
30°-40°	3420.0	17.2
40°-50°	5146.8	25.9
50°-60°	5633.7	28.4
60°-70°	1781.4	9.0
70°-80°	427.5	2.2
80°-90°	64.2	0.3
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°	19871.4	100.0
0°-180°	19871.4	100.0

Coefficient of Utilization



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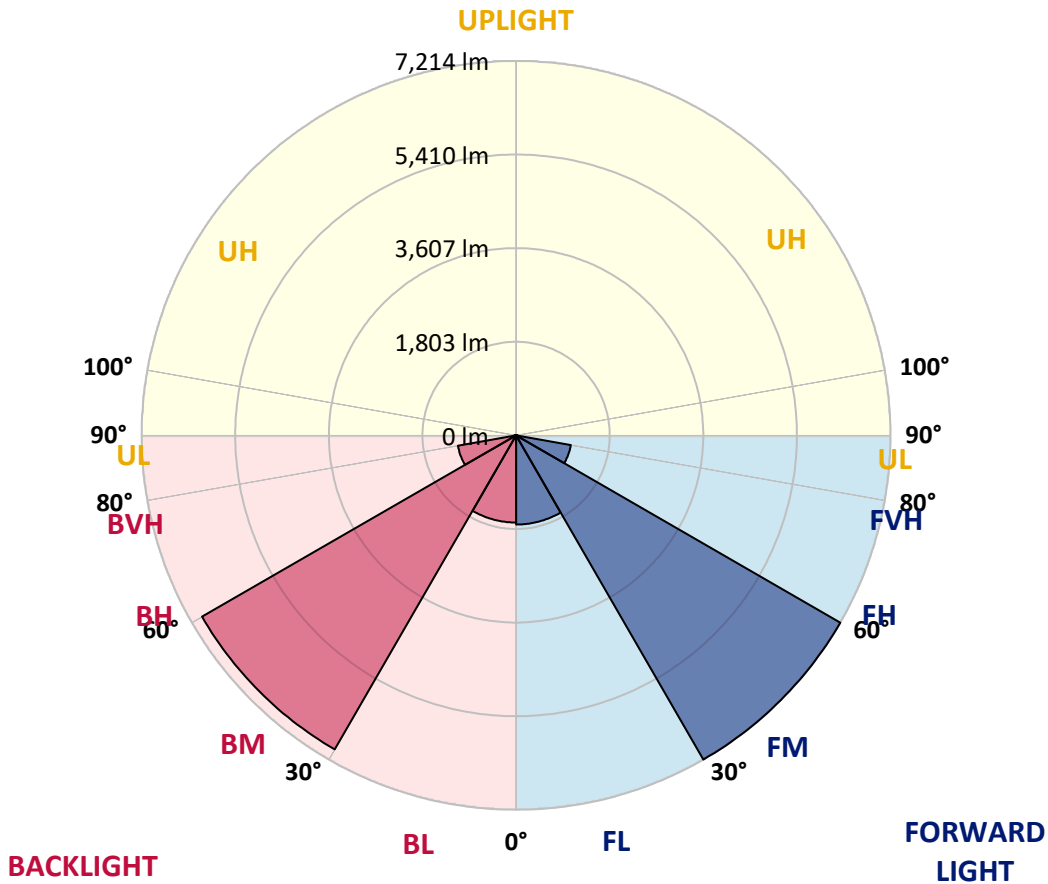
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.1	8.6			
FM (30°-60°)	7213.9	36.3			
FH (60°-80°)	1071.5	5.4			G1/1800
FVH (80°-90°)	29.7	0.1			G1/100
BL (0°-30°)	1679.7	8.5	B3/2500		
BM (30°-60°)	6986.7	35.2	B4/8500		
BH (60°-80°)	1137.4	5.7	B3/2500		G1/1800
BVH (80°-90°)	34.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8
2.5°	3243.3	3246.6	3253.0	3264.3	3275.7	3291.8	3298.3	3306.4	3304.7	3314.4	3314.4
5°	3227.2	3232.0	3241.7	3257.9	3277.3	3308.0	3316.1	3335.5	3354.8	3379.1	3387.2
7.5°	3246.6	3253.0	3264.3	3290.2	3319.3	3359.7	3375.9	3408.2	3445.3	3489.0	3506.7
10°	3283.7	3291.8	3311.2	3353.2	3400.1	3461.5	3476.0	3516.4	3576.2	3636.0	3671.6
12.5°	3325.8	3338.7	3374.2	3440.5	3510.0	3590.8	3613.4	3663.5	3728.1	3805.7	3854.2
15°	3374.2	3385.5	3440.5	3534.2	3642.5	3749.1	3775.0	3823.5	3896.2	3972.2	4040.0
17.5°	3476.0	3495.4	3560.1	3668.3	3794.4	3920.4	3949.5	4004.5	4062.7	4122.4	4187.1
20°	3615.0	3631.2	3713.6	3847.7	3996.4	4111.1	4140.2	4188.7	4216.2	4246.9	4301.8
22.5°	3754.0	3776.6	3870.4	4028.7	4203.2	4327.7	4350.3	4395.6	4376.2	4366.5	4402.0
25°	3926.9	3957.6	4049.7	4222.6	4400.4	4553.9	4571.7	4610.5	4578.2	4528.1	4526.5
27.5°	4141.8	4169.3	4264.7	4442.4	4618.6	4778.5	4812.5	4864.2	4793.1	4731.7	4688.1
30°	4397.2	4414.9	4520.0	4709.1	4890.1	5042.0	5085.6	5137.3	5084.0	4982.2	4938.5
32.5°	4694.5	4718.8	4840.0	5038.7	5200.3	5352.2	5395.9	5460.5	5402.3	5287.6	5232.6
35°	5051.7	5075.9	5203.6	5420.1	5584.9	5741.7	5772.4	5825.7	5753.0	5620.5	5576.9
37.5°	5439.5	5470.2	5631.8	5837.0	6010.0	6192.6	6194.2	6210.3	6106.9	5942.1	5893.6
40°	5875.8	5916.2	6077.8	6291.1	6499.6	6648.3	6646.7	6601.4	6426.9	6171.6	6097.2
42.5°	6307.3	6339.6	6502.8	6722.6	6931.1	7071.7	7029.7	6919.8	6667.7	6320.2	6221.6
45°	6619.2	6643.4	6814.7	7062.0	7273.7	7360.9	7285.0	7152.5	6811.5	6414.0	6268.5
47.5°	6766.2	6798.6	6971.5	7217.1	7456.3	7506.4	7415.9	7291.4	6895.5	6501.2	6305.7
50°	6687.1	6729.1	6924.6	7152.5	7422.3	7525.8	7461.1	7336.7	6984.4	6586.9	6371.9
52.5°	6481.8	6522.2	6769.5	7045.8	7351.2	7556.5	7554.9	7453.1	7086.2	6611.1	6375.2
55°	5780.5	5859.7	6244.3	6721.0	7264.0	7647.0	7685.8	7577.5	7102.4	6617.6	6409.1
57.5°	3762.1	3901.1	4266.3	4886.8	5976.0	6955.3	7217.1	7243.0	6986.0	6590.1	6415.6
60°	1570.8	1682.3	1971.5	2383.6	3283.7	4448.9	4956.3	5465.4	6079.4	6302.4	6355.8
62.5°	976.1	985.8	1014.9	1108.6	1409.2	1978.0	2304.4	2781.2	3694.2	4471.5	4830.3
65°	880.7	885.6	892.0	885.6	900.1	969.6	1056.9	1223.3	1595.0	1981.2	2440.2
67.5°	775.7	782.2	787.0	782.2	787.0	790.2	799.9	814.5	882.3	937.3	979.3
70°	627.0	636.7	644.8	641.6	660.9	660.9	670.6	682.0	715.9	756.3	785.4
72.5°	478.3	470.3	480.0	483.2	501.0	510.7	525.2	538.1	576.9	601.2	638.3
75°	310.3	302.2	316.7	324.8	349.1	362.0	374.9	387.8	415.3	431.5	467.0
77.5°	168.1	166.4	181.0	192.3	218.2	234.3	244.0	253.7	276.3	281.2	303.8
80°	97.0	97.0	106.7	114.7	130.9	148.7	158.4	166.4	182.6	187.5	197.2
82.5°	53.3	53.3	58.2	63.0	76.0	85.6	93.7	100.2	114.7	119.6	124.4
85°	25.9	24.2	27.5	30.7	35.6	40.4	45.2	48.5	59.8	63.0	69.5
87.5°	3.2	3.2	3.2	4.8	6.5	9.7	11.3	11.3	17.8	21.0	24.2
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°	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8	3291.8
2.5°	3324.1	3303.1	3316.1	3320.9	3320.9	3316.1	3295.0	3288.6	3278.9	3264.3	3264.3
5°	3398.5	3382.3	3385.5	3377.5	3358.1	3333.8	3295.0	3275.7	3259.5	3241.7	3240.1
7.5°	3526.1	3505.1	3501.9	3471.2	3419.5	3367.8	3309.6	3274.0	3249.8	3227.2	3225.6
10°	3692.6	3673.2	3649.0	3587.5	3511.6	3435.6	3356.5	3308.0	3272.4	3240.1	3238.5
12.5°	3878.4	3855.8	3810.6	3720.1	3624.7	3550.4	3459.9	3385.5	3332.2	3288.6	3280.5
15°	4080.4	4048.1	3970.5	3863.9	3770.2	3691.0	3594.0	3487.4	3406.6	3337.1	3329.0
17.5°	4235.6	4193.6	4109.5	4009.3	3931.8	3852.6	3726.5	3592.4	3476.0	3388.8	3375.9
20°	4342.2	4308.3	4212.9	4138.6	4093.4	4023.9	3876.8	3724.9	3594.0	3484.1	3477.7
22.5°	4440.8	4400.4	4306.7	4263.0	4263.0	4216.2	4075.6	3896.2	3742.7	3615.0	3598.9
25°	4552.3	4508.7	4437.6	4432.7	4455.3	4434.3	4264.7	4072.4	3893.0	3749.1	3723.3
27.5°	4707.4	4659.0	4616.9	4646.0	4678.4	4655.7	4466.7	4243.6	4054.6	3909.1	3886.5
30°	4954.7	4894.9	4856.1	4891.7	4954.7	4888.4	4683.2	4447.3	4256.6	4096.6	4085.3
32.5°	5242.3	5174.5	5134.1	5190.6	5247.2	5143.8	4940.2	4713.9	4513.5	4345.5	4326.1
35°	5588.2	5502.5	5442.7	5518.7	5576.9	5475.1	5273.0	5058.1	4835.1	4660.6	4634.7
37.5°	5895.2	5791.8	5751.4	5858.0	5935.6	5869.4	5649.6	5447.6	5203.6	5012.9	5001.6
40°	6118.2	6016.4	5987.3	6163.5	6299.2	6283.1	6085.9	5854.8	5625.3	5405.6	5384.6
42.5°	6215.2	6144.1	6150.5	6388.1	6598.2	6701.6	6525.5	6278.2	6056.8	5829.0	5814.4
45°	6236.2	6192.6	6244.3	6541.6	6818.0	7029.7	6879.4	6672.5	6422.0	6202.3	6195.8
47.5°	6258.8	6234.6	6313.8	6628.9	6956.9	7202.6	7118.5	6905.2	6651.5	6436.6	6420.4
50°	6312.1	6302.4	6391.3	6690.3	7023.2	7249.4	7154.1	6942.4	6682.2	6470.5	6431.7
52.5°	6328.3	6312.1	6439.8	6785.6	7133.1	7247.8	7042.6	6766.2	6504.5	6268.5	6228.1
55°	6378.4	6349.3	6436.6	6821.2	7285.0	7341.5	7036.1	6622.4	6257.2	5935.6	5840.3
57.5°	6391.3	6359.0	6415.6	6763.0	7120.2	7070.1	6184.5	5344.2	4655.7	4298.6	4339.0
60°	6321.8	6331.5	6234.6	6195.8	5711.0	5042.0	3786.3	3026.8	2377.2	2102.4	2162.2
62.5°	4812.5	4852.9	4521.6	3931.8	3023.6	2396.5	1585.3	1231.4	1042.3	993.8	1001.9
65°	2428.9	2483.8	2139.6	1769.5	1315.4	1063.3	919.5	890.4	880.7	869.4	869.4
67.5°	961.5	977.7	964.8	903.4	840.3	817.7	811.2	808.0	796.7	790.2	791.8
70°	772.5	785.4	766.0	727.2	701.3	699.7	696.5	690.0	682.0	682.0	686.8
72.5°	630.2	643.2	615.7	591.5	572.1	557.5	549.4	544.6	533.3	533.3	538.1
75°	463.8	471.9	449.3	446.0	425.0	410.5	397.5	391.1	376.5	370.1	374.9
77.5°	308.7	307.0	295.7	295.7	287.7	269.9	255.3	240.8	221.4	208.5	211.7
80°	200.4	200.4	195.5	195.5	187.5	172.9	155.1	140.6	129.3	119.6	119.6
82.5°	127.7	126.0	124.4	122.8	119.6	105.0	92.1	82.4	74.3	67.9	69.5
85°	71.1	71.1	67.9	67.9	61.4	53.3	46.9	40.4	35.6	33.9	33.9
87.5°	24.2	24.2	22.6	22.6	19.4	14.5	11.3	9.7	8.1	6.5	8.1
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)