

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: P637873

Luminaire Tested: GWS-SA4D-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

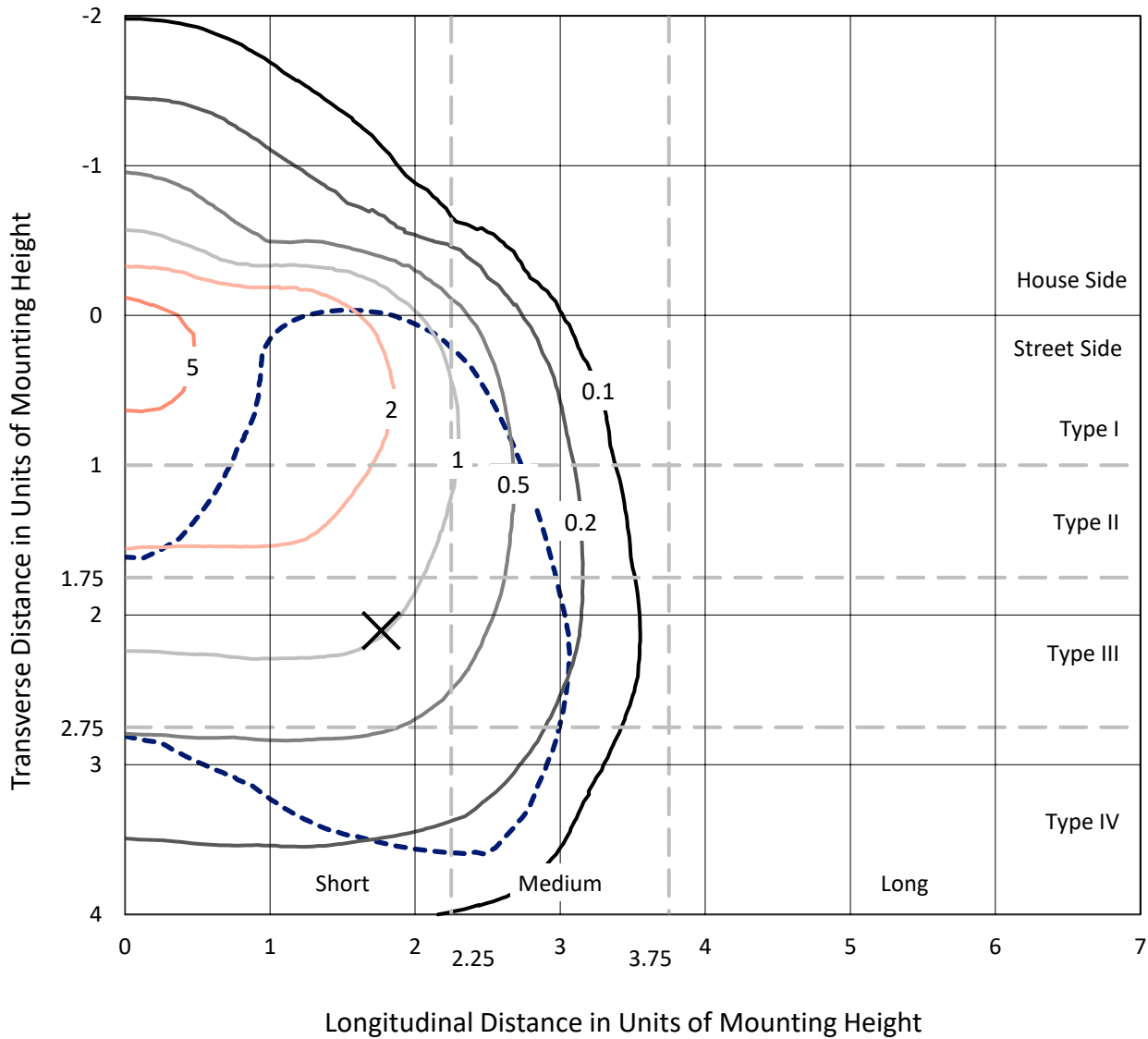
Lumens per Lamp: N/A  
Luminaire Lumens: 23728.3 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

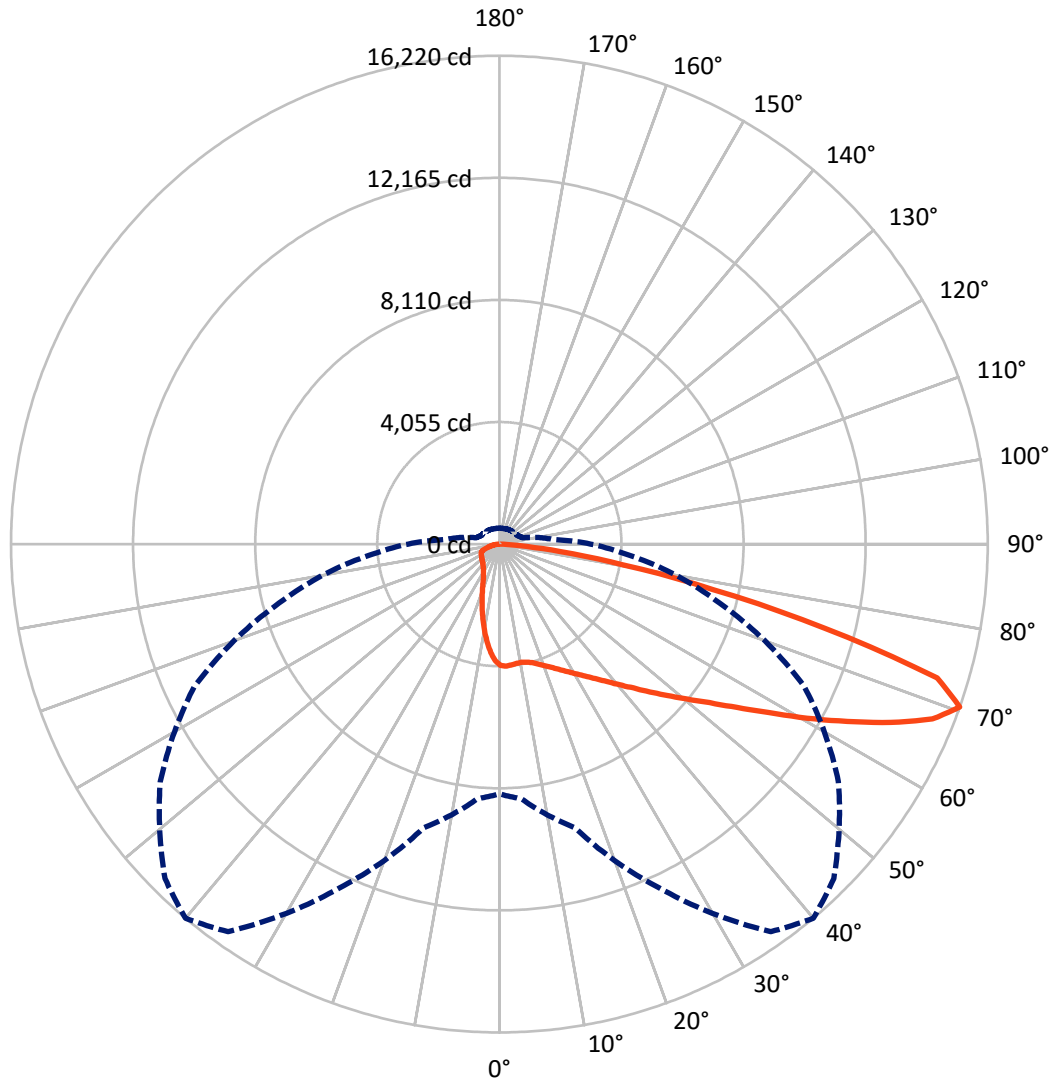
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3654.8	0.0	3654.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	20073.5	0.0	20073.5
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	23728.3	0.0	23728.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.0	1.5
10°-20°	927.8	3.9
20°-30°	1456.9	6.1
30°-40°	2190.4	9.2
40°-50°	3381.0	14.2
50°-60°	5021.1	21.2
60°-70°	6329.0	26.7
70°-80°	3660.0	15.4
80°-90°	406.2	1.7
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°	23728.3	100.0
0°-180°	23728.3	100.0

**Coefficient of Utilization**



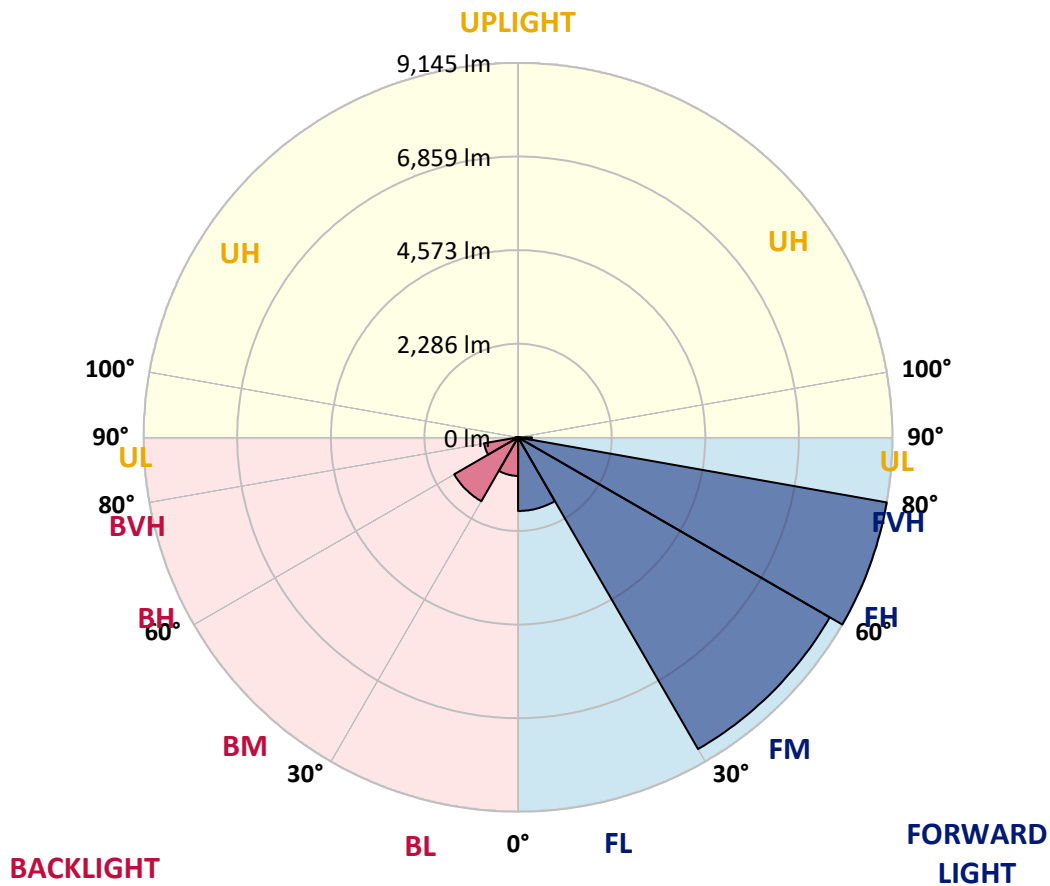
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.8	7.6			
FM (30°-60°)	8791.0	37.0			
FH (60°-80°)	9145.4	38.5			G4/12000
FVH (80°-90°)	338.3	1.4			G3/500
BL (0°-30°)	941.9	4.0	B2/1000		
BM (30°-60°)	1801.5	7.6	B2/2500		
BH (60°-80°)	843.5	3.6	B2/1000		G2/1000
BVH (80°-90°)	67.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3
2.5°	4054.1	4061.2	4066.5	4073.6	4070.1	4059.4	4068.3	4068.3	4048.8	4027.6	4008.1
5°	4059.4	4068.3	4066.5	4064.8	4050.6	4032.9	4032.9	4022.3	3988.6	3954.9	3923.1
7.5°	4048.8	4047.0	4045.3	4040.0	4024.0	4004.5	4001.0	3979.7	3935.5	3889.4	3843.4
10°	4001.0	3999.2	4004.5	4016.9	4013.4	3995.7	3995.7	3976.2	3924.8	3868.2	3807.9
12.5°	3962.0	3962.0	3983.3	4016.9	4029.3	4022.3	4024.0	4009.9	3951.4	3884.1	3813.3
15°	3967.3	3969.1	4015.2	4070.1	4093.1	4087.8	4089.6	4073.6	4008.1	3940.8	3845.1
17.5°	4002.8	4011.6	4091.3	4167.5	4197.6	4190.5	4178.1	4151.5	4077.2	4001.0	3884.1
20°	4077.2	4091.3	4194.1	4289.7	4325.1	4309.2	4287.9	4234.8	4153.3	4070.1	3926.6
22.5°	4224.2	4233.0	4346.4	4440.2	4468.6	4449.1	4406.6	4330.4	4236.6	4149.8	3978.0
25°	4431.4	4442.0	4550.1	4636.8	4629.8	4606.7	4548.3	4454.4	4342.8	4250.7	4052.4
27.5°	4677.6	4695.3	4801.6	4870.6	4824.6	4790.9	4725.4	4612.0	4486.3	4403.0	4165.7
30°	4946.8	4953.9	5044.2	5113.3	5042.4	4996.4	4916.7	4794.5	4681.1	4619.1	4335.7
32.5°	5207.1	5214.2	5292.2	5331.1	5256.7	5223.1	5154.0	5024.7	4945.0	4911.4	4589.0
35°	5481.7	5479.9	5543.7	5577.3	5501.2	5487.0	5416.1	5317.0	5302.8	5347.1	4959.2
37.5°	5756.2	5740.3	5773.9	5818.2	5775.7	5789.8	5743.8	5710.1	5765.1	5880.2	5451.6
40°	5975.8	5975.8	6011.2	6066.1	6080.3	6142.3	6115.7	6160.0	6337.1	6611.7	6060.8
42.5°	6170.6	6172.4	6246.8	6331.8	6434.5	6530.2	6551.4	6666.6	7033.2	7463.6	6826.0
45°	6374.3	6376.1	6477.0	6601.0	6818.9	7001.3	7043.8	7302.4	7826.7	8350.9	7656.6
47.5°	6609.9	6590.4	6730.3	6937.5	7247.5	7509.6	7619.4	7986.1	8648.5	9293.2	8439.5
50°	6875.6	6834.8	6990.7	7348.4	7731.0	8090.6	8274.8	8694.5	9530.5	10162.8	9176.3
52.5°	7174.9	7151.9	7314.8	7750.5	8335.0	8749.4	8999.1	9550.0	10387.7	11028.9	9760.7
55°	7546.8	7491.9	7727.5	8281.8	9043.4	9571.2	9867.0	10396.6	11324.7	11815.3	10207.1
57.5°	7954.2	7894.0	8209.2	8946.0	9964.4	10543.6	10913.7	11349.4	12206.7	12417.4	10469.2
60°	8393.4	8373.9	8747.6	9725.3	11062.5	11735.6	12003.0	12398.0	12973.6	12766.4	10403.7
62.5°	8795.5	8788.4	9332.1	10570.1	12226.2	12966.5	13179.0	13283.5	13526.2	12743.3	9882.9
65°	9218.8	9279.0	10014.0	11549.6	13559.8	14286.0	14374.6	14108.9	13712.1	12139.4	8816.7
67.5°	9271.9	9388.8	10442.6	12467.0	14824.4	15509.8	15439.0	14422.4	13163.1	10458.6	6911.0
70°	8292.5	8496.1	9759.0	12607.0	15715.3	16220.1	15708.2	13747.6	11170.6	7576.9	4346.4
72.5°	6928.7	7104.0	8219.8	10750.8	14565.8	15208.8	14516.2	11636.4	7894.0	4346.4	2213.9
75°	5393.1	5596.8	6625.8	8545.7	10904.9	11161.7	10814.6	8115.4	4339.3	1792.4	1006.0
77.5°	3290.8	3437.8	4238.3	5789.8	7630.1	7245.7	6140.5	4550.1	1904.0	859.0	621.7
80°	1455.9	1546.2	2088.2	3110.1	4408.4	4167.5	3285.5	1942.9	1041.4	545.5	433.9
82.5°	781.1	839.5	1029.0	1230.9	1935.9	2024.4	1641.8	1119.4	559.7	311.7	248.0
85°	343.6	377.3	467.6	446.3	635.8	625.2	630.5	768.7	267.4	143.5	161.2
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	19.5	102.7	26.6	42.5	37.2
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°	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3
2.5°	3986.8	3954.9	3946.1	3935.5	3916.0	3882.3	3857.5	3829.2	3816.8	3802.6	3804.4
5°	3887.6	3848.7	3811.5	3763.7	3703.4	3636.1	3590.1	3537.0	3508.6	3482.1	3489.1
7.5°	3802.6	3742.4	3666.3	3565.3	3457.3	3336.8	3239.4	3163.3	3111.9	3076.5	3094.2
10°	3749.5	3678.7	3545.8	3381.1	3198.7	3014.5	2874.6	2743.5	2662.0	2598.3	2594.7
12.5°	3738.9	3646.8	3453.7	3214.6	2950.7	2704.5	2499.1	2322.0	2213.9	2134.2	2164.3
15°	3749.5	3632.6	3374.0	3060.5	2727.6	2394.6	2139.5	1935.9	1806.6	1733.9	1728.6
17.5°	3761.9	3618.4	3283.7	2894.0	2493.8	2113.0	1817.2	1601.1	1468.3	1395.7	1397.4
20°	3772.5	3597.2	3177.4	2711.6	2256.4	1850.8	1544.4	1339.0	1220.3	1167.2	1176.0
22.5°	3790.2	3575.9	3064.1	2516.8	2013.8	1597.6	1328.4	1161.9	1091.0	1055.6	1057.4
25°	3823.9	3563.5	2947.2	2304.2	1774.7	1395.7	1179.6	1068.0	1023.7	1002.5	1000.7
27.5°	3893.0	3574.2	2825.0	2098.8	1558.6	1241.6	1083.9	1011.3	981.2	967.0	965.3
30°	4008.1	3616.7	2718.7	1889.8	1372.6	1121.1	1018.4	974.1	956.4	944.0	942.2
32.5°	4183.4	3696.4	2603.6	1695.0	1222.1	1032.6	967.0	944.0	931.6	924.5	924.5
35°	4449.1	3841.6	2490.2	1524.9	1105.2	963.5	926.3	917.4	906.8	903.3	906.8
37.5°	4831.7	4073.6	2387.5	1376.2	1021.9	910.4	882.0	885.6	876.7	882.0	887.3
40°	5317.0	4383.6	2300.7	1254.0	960.0	871.4	843.1	855.5	850.1	855.5	864.3
42.5°	5931.5	4767.9	2235.2	1158.3	915.7	839.5	813.0	825.3	821.8	828.9	837.7
45°	6617.0	5274.4	2205.1	1091.0	883.8	816.5	788.2	797.0	793.5	798.8	807.6
47.5°	7274.1	5734.9	2231.6	1052.1	857.2	797.0	766.9	770.4	768.7	766.9	772.2
50°	7840.8	6101.6	2307.8	1039.7	839.5	777.5	749.2	751.0	745.6	735.0	738.6
52.5°	8303.1	6395.6	2353.8	1039.7	830.7	756.3	729.7	731.5	720.9	706.7	708.5
55°	8607.7	6514.2	2316.6	1037.9	827.1	738.6	710.2	712.0	701.4	683.7	685.4
57.5°	8694.5	6399.1	2160.8	1018.4	823.6	724.4	690.7	694.3	687.2	667.7	667.7
60°	8451.9	5977.6	1875.6	974.1	814.7	715.5	676.6	681.9	678.3	658.9	658.9
62.5°	7816.0	5228.4	1535.6	906.8	789.9	704.9	664.2	674.8	683.7	673.0	671.3
65°	6625.8	4188.7	1248.7	832.4	758.0	687.2	646.5	673.0	692.5	706.7	706.7
67.5°	4971.6	2998.5	1018.4	754.5	710.2	651.8	623.4	648.2	662.4	671.3	676.6
70°	3030.4	1764.1	802.3	664.2	641.2	598.6	577.4	552.6	533.1	529.6	531.3
72.5°	1482.4	1009.5	651.8	565.0	547.3	508.3	460.5	449.9	441.0	435.7	433.9
75°	816.5	703.1	538.4	469.4	437.5	389.7	379.0	361.3	357.8	350.7	352.5
77.5°	577.4	554.4	444.6	380.8	333.0	308.2	313.5	301.1	301.1	295.8	294.0
80°	433.9	435.7	341.8	278.1	246.2	237.3	242.6	242.6	239.1	237.3	235.6
82.5°	274.5	309.9	230.2	178.9	175.3	177.1	175.3	173.6	177.1	171.8	170.0
85°	189.5	223.2	139.9	106.3	106.3	104.5	108.0	106.3	109.8	104.5	104.5
87.5°	42.5	99.2	51.4	31.9	33.7	31.9	33.7	35.4	39.0	40.7	40.7
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)