

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: P637784

Luminaire Tested: GWS-SA4D-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24505.6 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

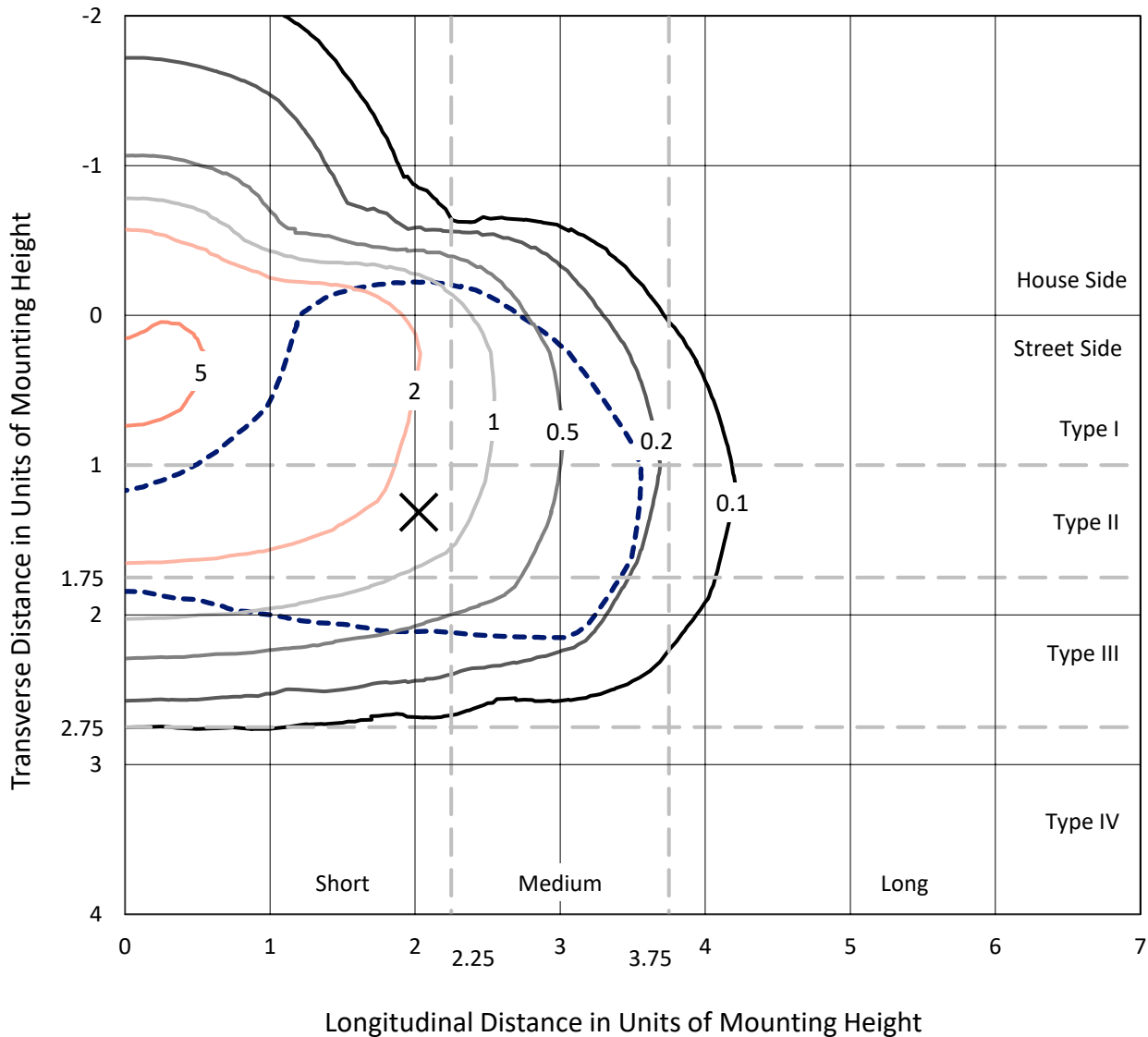
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

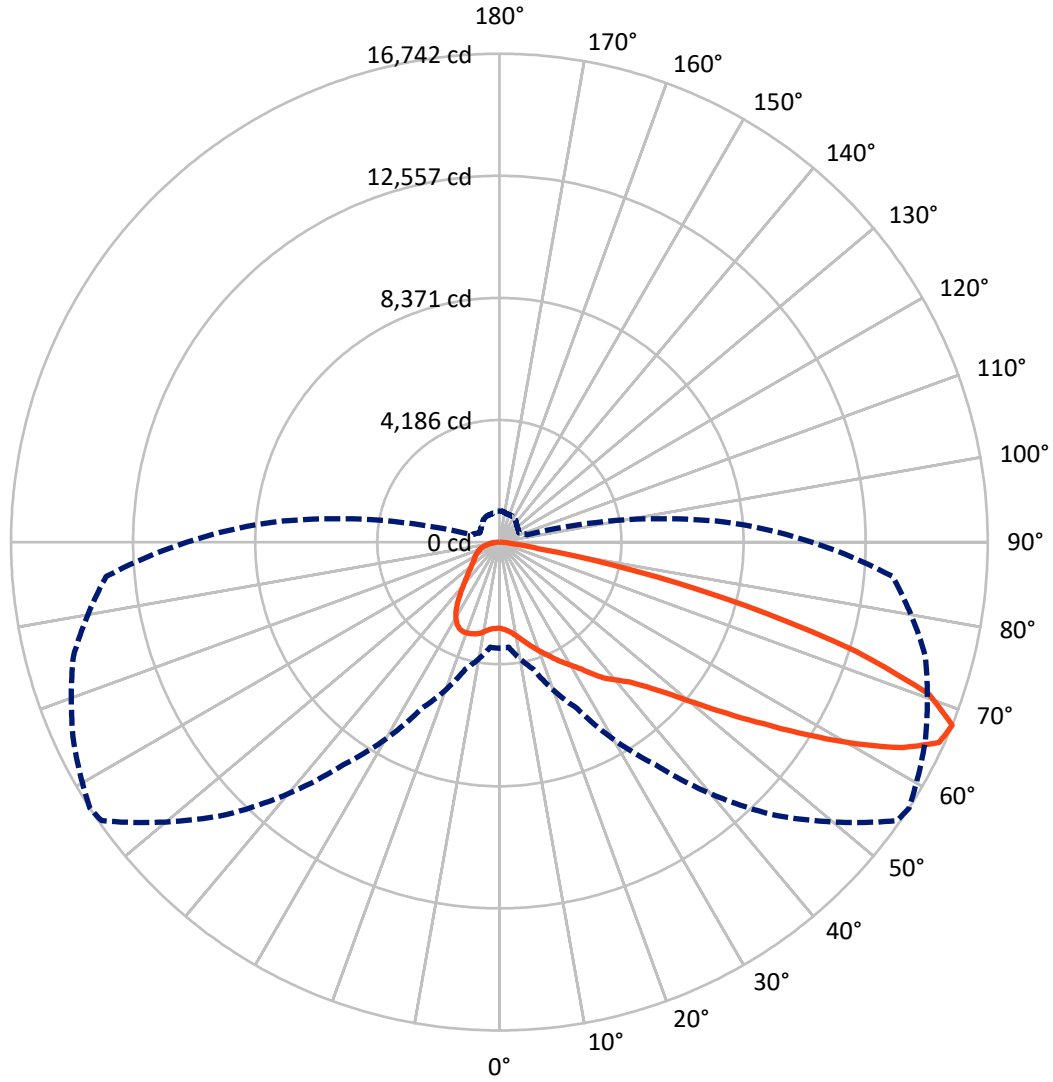
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5387.8	0.0	5387.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19117.8	0.0	19117.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	24505.6	0.0	24505.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	1.2
10°-20°	969.5	4.0
20°-30°	1728.4	7.1
30°-40°	2512.9	10.3
40°-50°	3637.0	14.8
50°-60°	5691.8	23.2
60°-70°	6639.8	27.1
70°-80°	2771.7	11.3
80°-90°	261.6	1.1
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°	24505.6	100.0
0°-180°	24505.6	100.0

Coefficient of Utilization



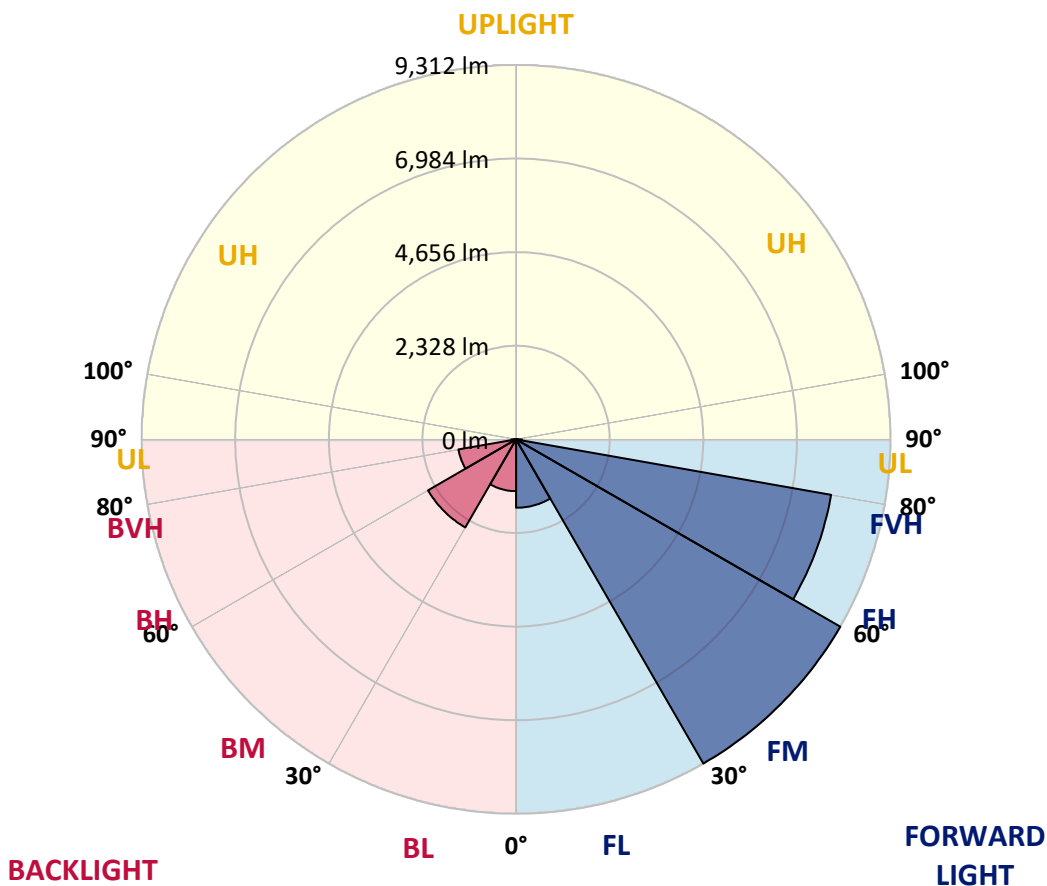
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.2	6.9			
FM (30°-60°)	9312.5	38.0			
FH (60°-80°)	7957.4	32.5			G4/12000
FVH (80°-90°)	145.7	0.6			G2/225
BL (0°-30°)	1288.6	5.3	B3/2500		
BM (30°-60°)	2529.2	10.3	B3/5000		
BH (60°-80°)	1454.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	115.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8
2.5°	2994.9	2991.4	2989.6	3000.2	2996.6	2994.9	2994.9	2993.1	2989.6	2975.6	2956.3
5°	3077.4	3070.4	3063.4	3072.1	3065.1	3058.1	3056.3	3052.8	3040.5	3019.5	2989.6
7.5°	3163.4	3156.4	3158.2	3163.4	3158.2	3154.6	3149.4	3145.9	3126.6	3093.2	3052.8
10°	3284.5	3284.5	3288.1	3293.3	3295.1	3289.8	3279.3	3274.0	3251.2	3209.1	3152.9
12.5°	3460.1	3456.6	3456.6	3453.1	3458.3	3453.1	3442.5	3433.8	3405.7	3351.3	3270.5
15°	3691.8	3677.8	3665.5	3642.7	3635.6	3616.3	3619.8	3614.6	3588.3	3514.5	3412.7
17.5°	3939.4	3937.6	3918.3	3872.6	3827.0	3795.4	3802.4	3800.7	3786.6	3686.6	3556.7
20°	4157.0	4165.8	4148.3	4113.1	4051.7	3992.0	3988.5	3997.3	3979.7	3879.7	3698.8
22.5°	4401.0	4394.0	4376.5	4330.8	4285.2	4222.0	4200.9	4193.9	4186.9	4072.8	3844.6
25°	4632.8	4653.8	4631.0	4588.9	4518.7	4450.2	4432.6	4439.7	4420.4	4269.4	4000.8
27.5°	4925.9	4934.7	4920.7	4862.7	4803.1	4706.5	4673.2	4673.2	4666.1	4453.7	4123.7
30°	5238.4	5263.0	5238.4	5191.0	5129.6	4990.9	4918.9	4911.9	4890.8	4643.3	4267.6
32.5°	5552.7	5570.2	5552.7	5507.0	5436.8	5315.7	5212.1	5196.3	5168.2	4850.5	4415.1
35°	5831.8	5847.6	5844.1	5854.6	5796.7	5643.9	5580.7	5573.7	5500.0	5120.8	4615.2
37.5°	6137.2	6156.6	6130.2	6151.3	6128.5	5984.5	5965.2	5930.1	5824.8	5375.4	4825.9
40°	6484.8	6502.4	6460.3	6469.0	6442.7	6361.9	6263.6	6216.2	6060.0	5651.0	5157.7
42.5°	6857.0	6897.4	6916.7	6900.9	6839.4	6793.8	6621.8	6562.1	6432.2	6147.8	5703.6
45°	7395.9	7455.6	7483.7	7443.3	7417.0	7352.1	7141.4	7069.4	7001.0	6848.2	6465.5
47.5°	7977.0	8031.4	8121.0	8138.5	8159.6	8110.4	7813.7	7743.5	7755.8	7738.3	7403.0
50°	8440.5	8486.1	8688.0	8903.9	9083.0	9097.0	8717.8	8642.3	8709.1	8765.2	8531.8
52.5°	8777.5	8817.9	9084.7	9530.6	9936.2	10236.3	9827.3	9741.3	9795.7	9922.1	9815.0
55°	9051.4	9107.6	9386.7	10071.3	10891.1	11365.1	11103.6	10994.7	10971.9	11128.1	11189.6
57.5°	9195.3	9212.9	9604.4	10494.4	11591.6	12472.9	12587.0	12464.1	12246.4	12332.4	12651.9
60°	8867.1	8896.9	9432.3	10603.2	12144.6	13571.8	14144.1	14042.3	13578.8	13626.2	13979.1
62.5°	7959.5	8001.6	8645.9	10085.4	12190.2	14305.6	15581.9	15516.9	14895.5	14639.1	14744.5
65°	6384.8	6398.8	7065.9	8803.9	11282.6	14396.9	16584.2	16568.4	15815.3	15215.0	14763.8
67.5°	3640.9	3616.3	4508.1	6279.4	9311.2	13210.2	16649.2	16742.2	16113.8	15120.2	13534.9
70°	1578.2	1581.7	1992.5	3098.5	6026.6	10677.0	15464.2	15624.0	15250.1	13542.0	10768.3
72.5°	730.3	740.8	918.1	1341.2	2573.6	6623.5	12609.8	12753.7	12432.5	10838.5	7834.8
75°	516.1	524.9	612.7	768.9	1183.2	2580.6	8435.2	8737.1	8893.4	8106.9	5162.9
77.5°	391.5	403.8	447.7	533.7	730.3	914.6	4035.9	4755.7	5665.0	5043.6	2659.6
80°	249.3	249.3	296.7	356.4	445.9	475.7	1165.7	1381.6	2771.9	2078.5	1044.5
82.5°	168.5	173.8	201.9	226.5	256.3	270.3	500.3	533.7	800.5	707.5	430.1
85°	89.5	93.0	105.3	103.6	122.9	107.1	210.7	208.9	293.2	321.3	163.3
87.5°	0.0	0.0	1.8	1.8	3.5	5.3	22.8	24.6	61.4	98.3	54.4
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°	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8	2952.8
2.5°	2966.8	2945.7	2956.3	2952.8	2963.3	2963.3	2944.0	2938.7	2940.5	2919.4	2912.4
5°	2993.1	2968.6	2973.8	2966.8	2977.3	2986.1	2977.3	2977.3	2987.9	2972.1	2963.3
7.5°	3052.8	3024.7	3024.7	3016.0	3028.2	3035.3	3028.2	3038.8	3058.1	3042.3	3033.5
10°	3147.6	3114.3	3116.0	3105.5	3110.8	3107.2	3079.2	3070.4	3075.6	3061.6	3054.6
12.5°	3270.5	3224.9	3224.9	3203.8	3191.5	3154.6	3096.7	3075.6	3079.2	3066.9	3061.6
15°	3388.1	3346.0	3337.2	3295.1	3238.9	3170.4	3117.8	3103.7	3107.2	3095.0	3086.2
17.5°	3526.8	3472.4	3440.8	3363.5	3260.0	3189.8	3137.1	3103.7	3075.6	3047.6	3040.5
20°	3655.0	3586.5	3528.6	3409.2	3282.8	3186.2	3087.9	3005.4	2937.0	2900.1	2891.3
22.5°	3786.6	3698.8	3597.0	3440.8	3281.0	3123.0	2942.2	2817.6	2715.8	2661.3	2671.9
25°	3911.3	3800.7	3662.0	3470.6	3224.9	2982.6	2736.8	2550.7	2434.9	2392.8	2380.5
27.5°	4014.8	3877.9	3721.7	3456.6	3109.0	2780.7	2456.0	2248.8	2136.4	2089.0	2076.8
30°	4130.7	3976.2	3807.7	3391.6	2926.4	2498.1	2138.2	1969.7	1888.9	1843.3	1845.0
32.5°	4264.1	4102.6	3928.8	3267.0	2692.9	2192.6	1876.6	1760.8	1695.8	1650.2	1643.2
35°	4443.2	4283.4	4009.6	3079.2	2396.3	1911.7	1697.6	1602.8	1522.0	1462.3	1450.0
37.5°	4664.4	4555.5	4018.3	2828.1	2078.5	1718.6	1569.4	1467.6	1369.3	1290.3	1281.5
40°	5043.6	4918.9	3946.4	2513.9	1808.2	1594.0	1462.3	1344.7	1230.6	1142.8	1130.5
42.5°	5584.3	5328.0	3791.9	2159.3	1604.5	1495.7	1360.5	1211.3	1095.4	1034.0	1025.2
45°	6272.4	5784.4	3560.2	1825.7	1453.6	1399.1	1253.4	1097.2	1035.7	991.9	983.1
47.5°	7115.1	6316.3	3293.3	1565.9	1335.9	1311.4	1144.6	1058.6	1004.1	967.3	958.5
50°	8122.7	6993.9	3073.9	1362.3	1230.6	1209.5	1109.5	1035.7	991.9	962.0	955.0
52.5°	9272.6	7747.0	2966.8	1216.6	1139.3	1118.3	1097.2	1030.5	993.6	970.8	962.0
55°	10466.3	8540.5	2866.7	1104.2	1062.1	1074.4	1098.9	1048.0	1019.9	990.1	981.3
57.5°	11619.7	9284.9	2621.0	1016.4	1005.9	1053.3	1107.7	1065.6	1032.2	1002.4	991.9
60°	12414.9	9692.1	2204.9	946.2	963.8	1027.0	1084.9	1039.3	997.1	984.8	979.6
62.5°	12629.1	9643.0	1711.6	874.2	912.9	969.0	1025.2	995.4	951.5	970.8	972.5
65°	12128.8	9116.3	1285.0	804.0	846.2	893.6	963.8	951.5	935.7	988.3	990.1
67.5°	10712.1	7822.5	979.6	742.6	777.7	835.6	944.5	995.4	998.9	1065.6	1058.6
70°	8105.2	5844.1	767.2	684.6	725.0	835.6	1005.9	1028.7	986.6	1048.0	1034.0
72.5°	5603.6	3856.8	653.0	633.7	660.1	797.0	1004.1	1004.1	958.5	958.5	932.2
75°	3481.2	2268.1	568.8	568.8	568.8	696.9	976.1	925.2	844.4	807.5	786.5
77.5°	1718.6	1102.5	477.5	495.1	475.7	582.8	797.0	756.6	707.5	668.8	654.8
80°	733.8	551.2	386.2	405.5	382.7	438.9	632.0	623.2	575.8	524.9	509.1
82.5°	337.1	284.4	309.0	317.7	279.1	330.0	461.7	461.7	435.4	365.1	338.8
85°	144.0	151.0	214.2	214.2	175.6	186.1	247.5	235.2	210.7	172.0	158.0
87.5°	49.2	73.7	108.8	94.8	36.9	15.8	8.8	3.5	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)