

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: P639328

Luminaire Tested: GWS-SA5B-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18464.1 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 115.7
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

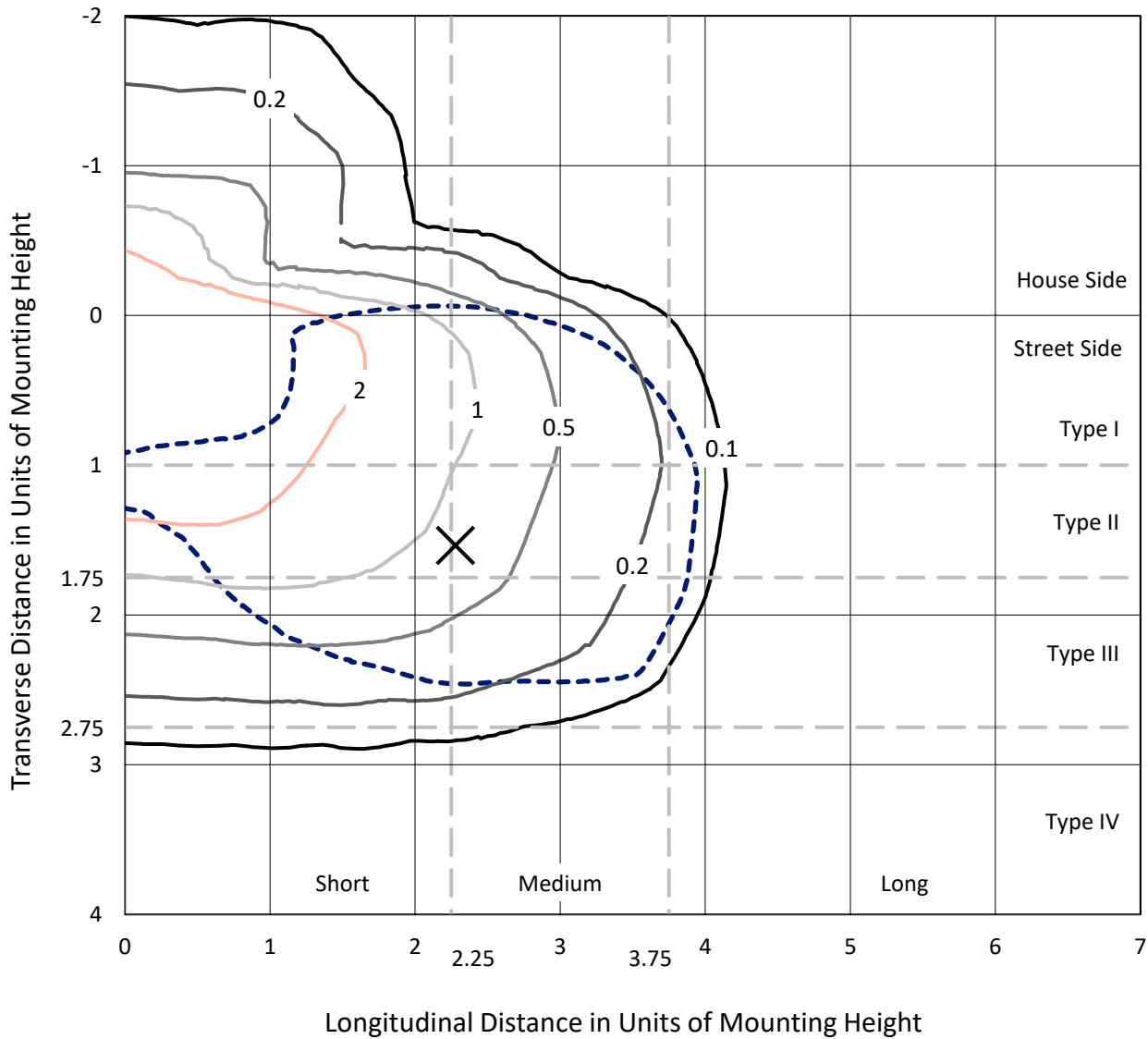


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Iso-Footcandle Lines of Horizontal Illumination

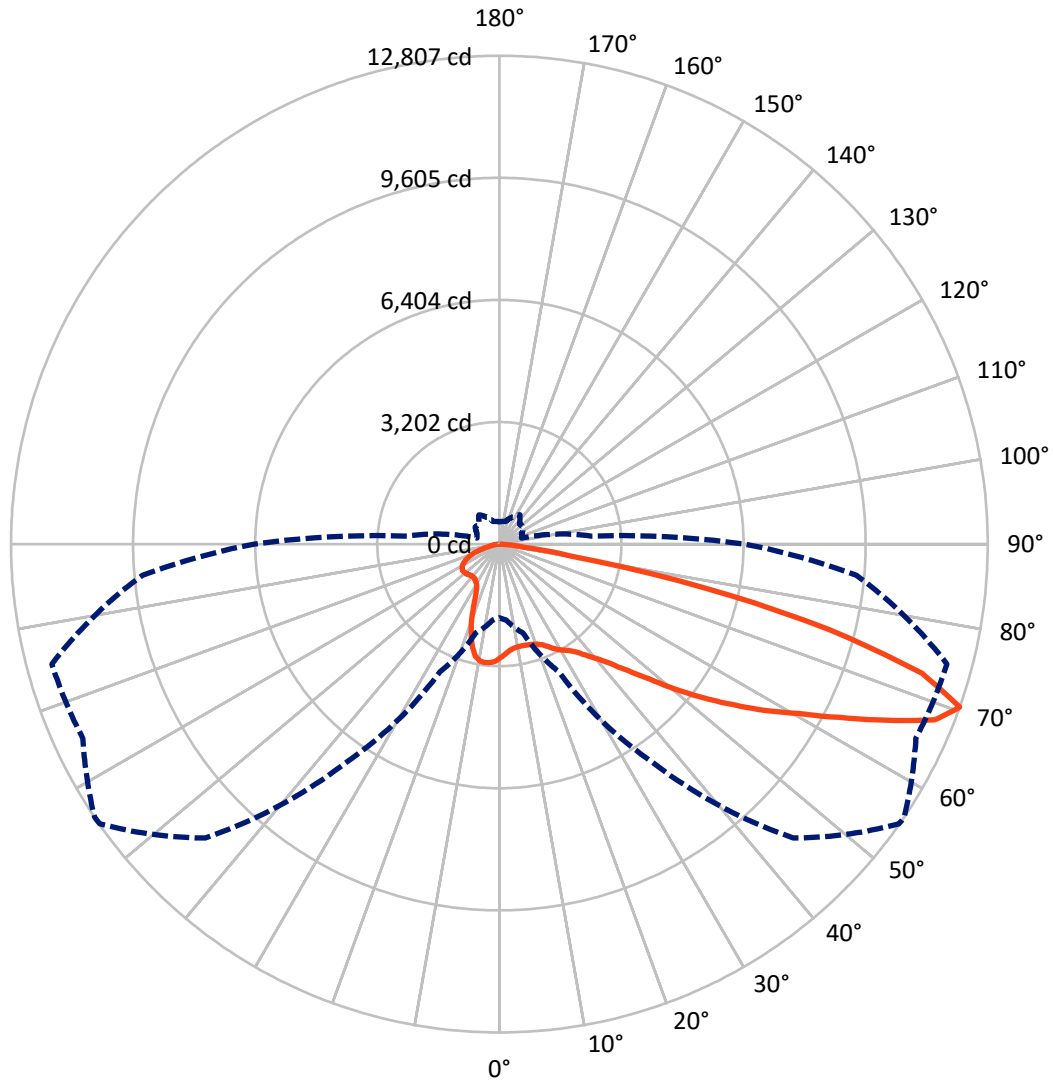
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3549.7	0.0	3549.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	14914.4	0.0	14914.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	18464.1	0.0	18464.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.5
10°-20°	747.3	4.0
20°-30°	1235.5	6.7
30°-40°	1847.2	10.0
40°-50°	2748.9	14.9
50°-60°	3908.1	21.2
60°-70°	4840.4	26.2
70°-80°	2672.7	14.5
80°-90°	188.2	1.0
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°	18464.1	100.0
0°-180°	18464.1	100.0

Coefficient of Utilization



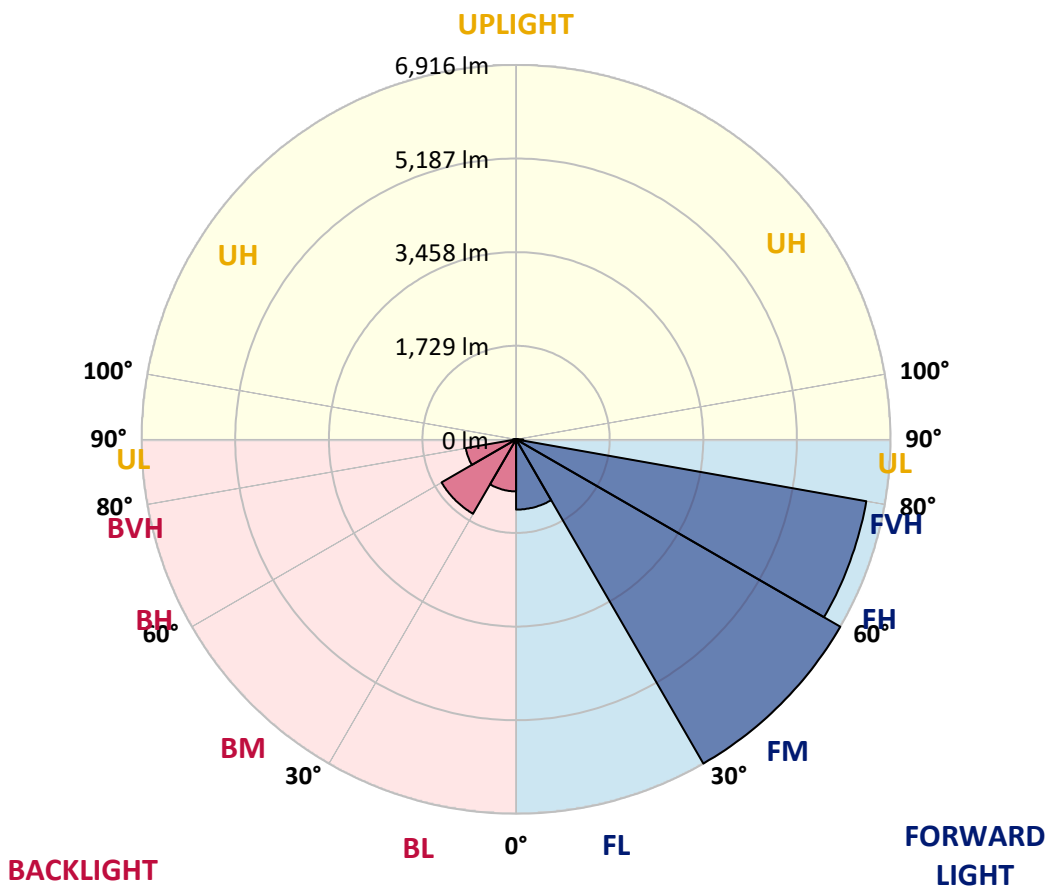
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.6	7.0			
FM (30°-60°)	6916.4	37.5			
FH (60°-80°)	6569.5	35.6			G3/7500
FVH (80°-90°)	130.8	0.7			G2/225
BL (0°-30°)	960.9	5.2	B2/1000		
BM (30°-60°)	1587.9	8.6	B2/2500		
BH (60°-80°)	943.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	57.4	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4
2.5°	2789.0	2773.4	2791.6	2800.7	2824.1	2858.0	2887.9	2889.2	2904.9	2942.6	2979.1
5°	2662.7	2654.9	2660.1	2687.4	2712.2	2755.1	2800.7	2804.6	2848.9	2923.1	2996.0
7.5°	2565.0	2554.6	2574.2	2609.3	2640.6	2688.7	2748.6	2753.8	2816.3	2928.3	3040.3
10°	2424.4	2416.6	2453.1	2499.9	2567.6	2647.1	2726.5	2733.0	2815.0	2962.2	3118.4
12.5°	2363.2	2363.2	2378.8	2423.1	2497.3	2602.8	2722.6	2733.0	2835.9	3014.2	3218.7
15°	2458.3	2464.8	2451.8	2449.2	2479.1	2579.4	2727.8	2743.4	2874.9	3067.6	3317.6
17.5°	2649.7	2656.2	2622.3	2568.9	2539.0	2601.5	2747.3	2764.2	2916.6	3126.2	3424.4
20°	2917.9	2925.7	2851.5	2769.5	2666.6	2665.3	2785.1	2800.7	2970.0	3190.0	3537.7
22.5°	3231.7	3236.9	3143.1	3012.9	2855.4	2783.8	2850.2	2865.8	3039.0	3278.6	3660.1
25°	3595.0	3610.6	3497.3	3308.5	3095.0	2946.5	2958.3	2976.5	3162.7	3397.0	3804.6
27.5°	3983.0	4002.5	3872.3	3664.0	3369.7	3126.2	3097.6	3113.2	3294.2	3470.0	3881.4
30°	4380.1	4394.4	4264.2	4025.9	3665.3	3329.3	3214.8	3223.9	3351.5	3505.1	3959.5
32.5°	4821.5	4809.8	4684.8	4410.0	4006.4	3572.8	3324.1	3321.5	3415.3	3575.4	4071.5
35°	5235.5	5252.5	5119.7	4816.3	4381.4	3873.6	3488.2	3477.8	3550.7	3690.0	4229.1
37.5°	5736.8	5731.6	5572.8	5244.7	4757.7	4161.3	3718.7	3700.4	3726.5	3868.4	4449.1
40°	6094.9	6131.3	6028.5	5722.5	5197.8	4515.5	3988.2	3947.8	3954.3	4088.4	4743.4
42.5°	6387.9	6421.7	6432.1	6236.8	5701.7	4953.0	4324.1	4283.7	4287.6	4477.7	5105.3
45°	6613.1	6658.7	6805.8	6748.5	6269.4	5458.2	4778.5	4736.9	4739.5	4950.4	5542.8
47.5°	6705.6	6755.0	7053.2	7189.9	6872.2	6062.3	5343.6	5282.4	5291.5	5524.6	6042.8
50°	6675.6	6742.0	7145.6	7529.7	7377.4	6676.9	6019.4	5976.4	5941.2	6279.8	6585.8
52.5°	6417.8	6490.7	7136.5	7745.9	7790.2	7257.6	6717.3	6692.5	6684.7	7081.8	7192.5
55°	5658.7	5781.1	6822.7	7803.2	8113.1	7804.5	7473.8	7432.1	7472.5	7941.2	7805.8
57.5°	5238.1	5329.3	6208.2	7739.4	8377.4	8325.3	8228.9	8232.9	8278.4	8874.8	8549.3
60°	4998.6	5105.3	5867.0	7564.9	8631.3	8958.1	9019.3	9019.3	9101.3	9881.2	9304.4
62.5°	4680.9	4788.9	5548.0	7229.0	8865.7	9702.9	10012.8	10008.8	10041.4	10960.6	10042.7
65°	4036.4	4136.6	4907.4	6699.0	8980.2	10523.2	11141.6	11129.9	11064.8	11921.6	10531.0
67.5°	2930.9	3026.0	3759.0	5691.3	8567.5	11184.6	12304.4	12309.6	11920.3	12527.0	10557.0
70°	1932.2	1997.3	2416.6	3696.5	6967.3	10899.5	12791.3	12807.0	12051.8	12149.4	9395.6
72.5°	1205.7	1251.3	1509.1	2204.4	4117.1	8627.4	11541.4	11584.3	10842.2	10676.8	7719.8
75°	800.8	832.0	1003.9	1285.1	1904.9	4669.1	8773.2	8911.2	8689.9	8369.6	5378.8
77.5°	481.8	507.8	639.3	816.4	843.7	1824.2	5121.0	5477.7	5509.0	4369.7	2252.5
80°	220.0	250.0	352.9	466.1	449.2	635.4	1805.9	1889.3	2229.1	1388.0	710.9
82.5°	130.2	143.2	234.4	231.8	191.4	308.6	649.7	666.6	566.4	507.8	303.4
85°	52.1	61.2	99.0	87.2	70.3	100.3	244.8	256.5	246.1	221.3	112.0
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	22.1	23.4	33.9	61.2	33.9
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°	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4
2.5°	3002.5	2994.7	3033.8	3063.7	3076.7	3089.8	3078.0	3074.1	3074.1	3048.1	3035.1
5°	3035.1	3039.0	3092.4	3117.1	3117.1	3106.7	3075.4	3053.3	3045.5	3011.6	3002.5
7.5°	3096.3	3113.2	3162.7	3161.4	3124.9	3067.6	2989.5	2929.6	2874.9	2851.5	2837.2
10°	3196.5	3218.7	3252.5	3197.8	3096.3	2945.2	2779.9	2649.7	2571.5	2509.0	2509.0
12.5°	3311.1	3331.9	3325.4	3199.1	2989.5	2707.0	2468.7	2318.9	2209.6	2152.3	2152.3
15°	3425.7	3442.6	3372.3	3139.2	2766.9	2390.6	2130.2	1950.5	1855.4	1802.0	1802.0
17.5°	3541.6	3540.3	3391.8	3001.2	2476.5	2040.3	1785.1	1645.8	1613.2	1604.1	1602.8
20°	3653.5	3623.6	3367.1	2770.8	2139.3	1687.5	1526.0	1535.1	1583.3	1604.1	1606.7
22.5°	3779.8	3705.6	3294.2	2476.5	1756.5	1442.7	1453.1	1528.6	1598.9	1630.2	1634.1
25°	3908.8	3775.9	3171.8	2131.5	1436.2	1352.8	1433.6	1518.2	1597.6	1638.0	1641.9
27.5°	3960.8	3775.9	2963.5	1731.7	1265.6	1315.1	1403.6	1485.6	1569.0	1615.8	1625.0
30°	4003.8	3743.4	2671.8	1371.1	1195.3	1278.6	1355.4	1431.0	1513.0	1570.3	1580.7
32.5°	4063.7	3714.7	2318.9	1152.3	1162.7	1243.5	1296.8	1360.6	1434.9	1472.6	1468.7
35°	4134.0	3670.5	1893.2	1048.1	1135.4	1213.5	1251.3	1289.0	1255.2	1253.9	1257.8
37.5°	4234.3	3631.4	1522.1	1001.3	1117.2	1192.7	1223.9	1143.2	1096.3	1076.8	1069.0
40°	4378.8	3615.8	1200.5	973.9	1114.6	1191.4	1169.2	1044.2	980.4	912.7	911.4
42.5°	4561.1	3604.1	992.2	960.9	1123.7	1221.3	1093.7	979.1	847.6	817.7	815.1
45°	4795.4	3585.8	888.0	958.3	1145.8	1244.8	1085.9	889.3	799.5	786.4	786.4
47.5°	5078.0	3557.2	841.1	958.3	1170.5	1234.3	1062.5	869.8	777.3	791.6	800.8
50°	5402.2	3520.7	816.4	955.7	1195.3	1234.3	1013.0	865.9	772.1	846.3	876.3
52.5°	5748.5	3479.1	799.5	945.3	1212.2	1235.6	1015.6	878.9	777.3	859.4	884.1
55°	6131.3	3472.6	776.0	923.2	1217.4	1201.8	1022.1	907.5	785.1	778.6	779.9
57.5°	6614.4	3550.7	759.1	890.6	1196.6	1132.8	1035.1	928.4	776.0	777.3	786.4
60°	7119.6	3697.8	773.4	859.4	1153.6	1067.7	1044.2	917.9	731.8	710.9	713.5
62.5°	7549.3	3809.8	785.1	845.0	1091.1	1010.4	1035.1	894.5	707.0	701.8	713.5
65°	7729.0	3717.3	756.5	815.1	1000.0	940.1	1015.6	864.6	686.2	666.6	668.0
67.5°	7529.7	3283.8	700.5	748.7	897.1	850.2	984.3	825.5	657.5	634.1	628.9
70°	6432.1	2412.7	604.2	643.2	772.1	744.8	936.2	774.7	612.0	595.0	583.3
72.5°	5183.5	1708.3	501.3	511.7	605.5	627.6	852.8	710.9	559.9	511.7	494.8
75°	3608.0	1072.9	418.0	407.5	437.5	479.2	665.3	589.8	483.1	432.3	416.7
77.5°	1552.0	550.8	326.8	321.6	291.7	332.0	510.4	492.2	404.9	346.3	337.2
80°	519.5	319.0	235.7	226.6	194.0	233.1	359.4	393.2	317.7	256.5	240.9
82.5°	260.4	184.9	149.7	135.4	130.2	147.1	212.2	244.8	220.0	177.1	149.7
85°	127.6	105.5	82.0	80.7	67.7	63.8	88.5	104.2	99.0	72.9	69.0
87.5°	46.9	41.7	26.0	20.8	13.0	9.1	5.2	5.2	3.9	3.9	3.9
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)