

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: P639312

Luminaire Tested: GWS-SA5B-750-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-750-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

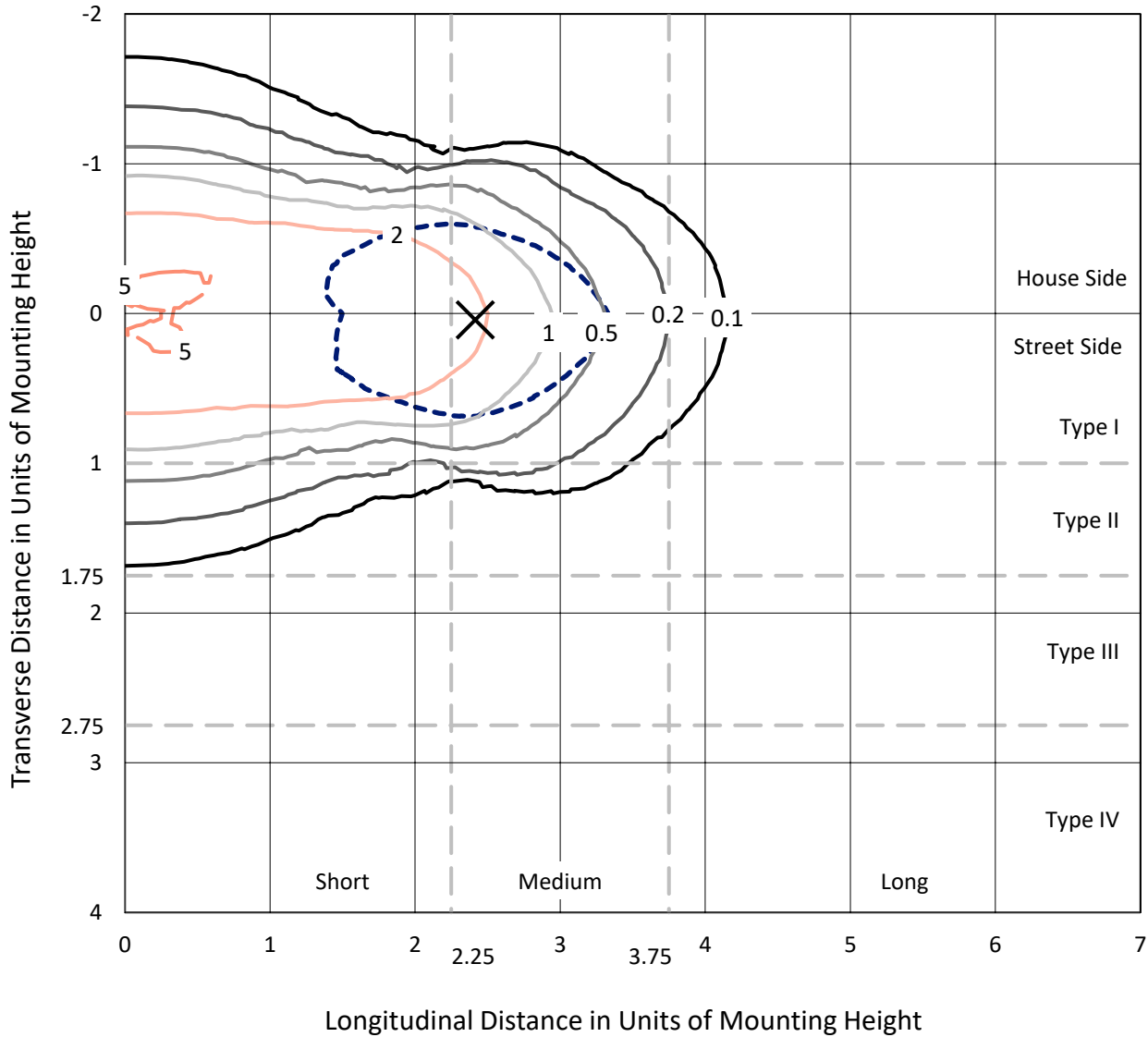
Lumens per Lamp: N/A  
Luminaire Lumens: 18129.5 lumens  
Efficiency: N/A  
Efficacy: 156.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

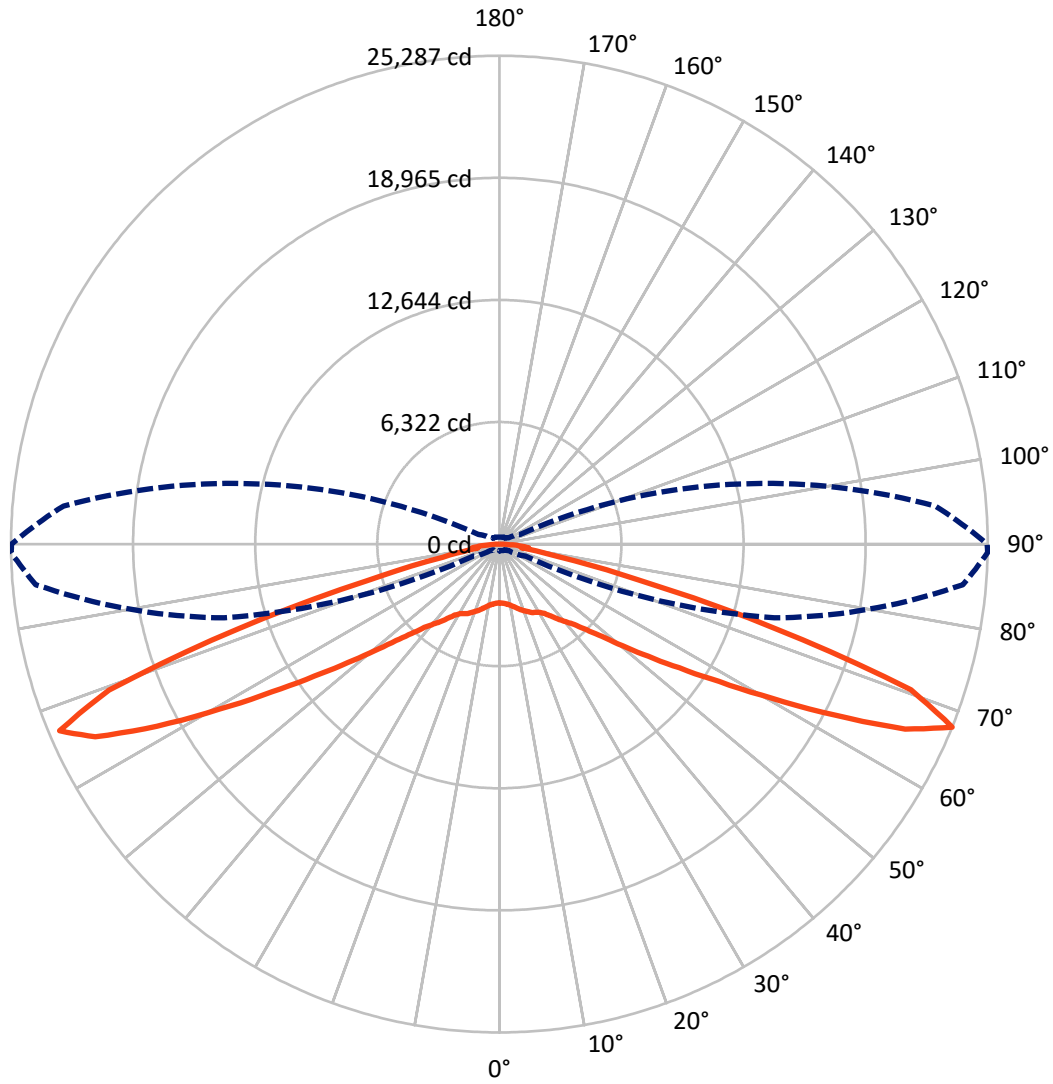
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type I - Medium - N/A

REPORT NUMBER: P639312  
CATALOG NUMBER: GWS-SA5B-750-U-T1-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8985.3	0.0	8985.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9144.2	0.0	9144.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	18129.5	0.0	18129.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.2	1.7
10°-20°	993.9	5.5
20°-30°	1680.1	9.3
30°-40°	2305.7	12.7
40°-50°	2940.3	16.2
50°-60°	3689.0	20.3
60°-70°	4449.3	24.5
70°-80°	1609.6	8.9
80°-90°	156.5	0.9
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°	18129.5	100.0
0°-180°	18129.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639312

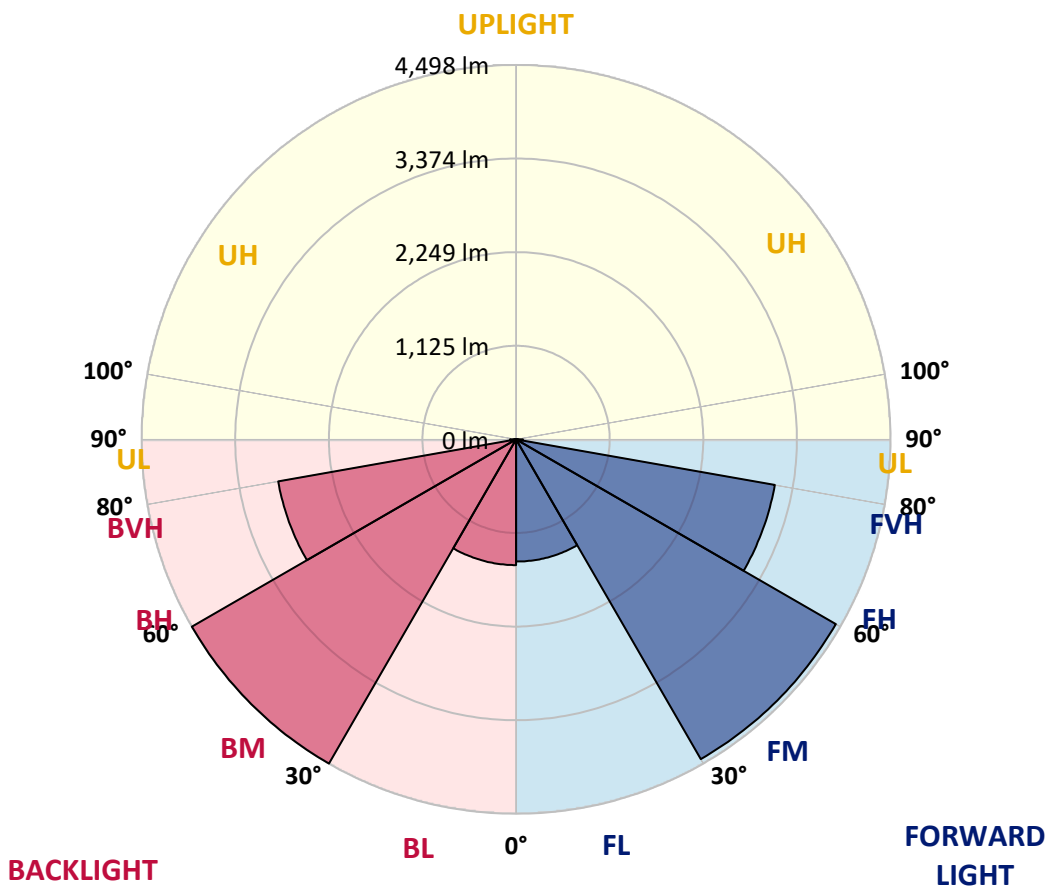
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.3	8.1			
FM (30°-60°)	4436.6	24.5			
FH (60°-80°)	3156.6	17.4			G2/5000
FVH (80°-90°)	82.6	0.5			G1/100
BL (0°-30°)	1510.8	8.3	B3/2500		
BM (30°-60°)	4498.3	24.8	B3/5000		
BH (60°-80°)	2902.2	16.0	B4/5000		G4/5000
BVH (80°-90°)	73.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°	
0°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3052.0	3049.4	3042.9	3062.4	3058.5	3059.8	3067.6	3062.4	3053.3	3037.7	3059.8	3059.8
5°	3137.9	3136.6	3122.3	3134.0	3121.0	3111.9	3110.6	3097.6	3087.2	3070.2	3093.7	3093.7
7.5°	3221.3	3220.0	3208.3	3229.1	3218.7	3208.3	3196.5	3170.5	3145.8	3121.0	3147.1	3147.1
10°	3285.1	3283.8	3281.2	3311.1	3313.7	3317.6	3312.4	3268.1	3225.2	3195.2	3221.3	3221.3
12.5°	3321.5	3325.4	3331.9	3386.6	3414.0	3440.0	3446.5	3410.1	3338.5	3295.5	3326.7	3326.7
15°	3296.8	3304.6	3337.2	3436.1	3511.6	3570.2	3595.0	3565.0	3472.6	3401.0	3436.1	3436.1
17.5°	3178.3	3184.8	3248.6	3399.7	3566.3	3701.7	3742.1	3723.9	3621.0	3533.8	3567.6	3567.6
20°	3014.2	3028.6	3097.6	3308.5	3557.2	3792.9	3900.9	3894.4	3782.5	3648.3	3688.7	3688.7
22.5°	2865.8	2882.7	2955.7	3188.7	3496.0	3816.3	4061.1	4078.0	3929.6	3762.9	3795.5	3795.5
25°	2699.1	2714.8	2808.5	3046.8	3390.5	3798.1	4197.8	4274.6	4096.2	3894.4	3924.4	3924.4
27.5°	2528.6	2540.3	2632.7	2886.6	3252.5	3764.2	4305.9	4490.8	4260.3	3985.6	4006.4	4006.4
30°	2378.8	2394.5	2479.1	2726.5	3101.5	3696.5	4394.4	4721.2	4449.1	4088.4	4105.4	4105.4
32.5°	2234.3	2247.3	2339.8	2568.9	2941.3	3592.4	4473.8	4992.1	4729.0	4279.8	4279.8	4279.8
35°	2052.0	2075.5	2179.6	2417.9	2790.3	3454.3	4531.1	5307.2	5111.8	4562.4	4563.7	4563.7
37.5°	1884.1	1897.1	2006.5	2247.3	2631.4	3298.1	4536.3	5634.0	5596.2	4921.7	4924.4	4924.4
40°	1692.7	1709.6	1826.8	2065.1	2449.2	3134.0	4486.9	5938.6	6104.0	5291.5	5277.2	5277.2
42.5°	1498.7	1523.4	1635.4	1868.4	2252.5	2933.5	4355.4	6229.0	6748.5	5719.9	5684.7	5684.7
45°	1311.2	1326.8	1438.8	1658.8	2027.3	2693.9	4144.4	6507.6	7514.1	6370.9	6320.2	6320.2
47.5°	1100.2	1106.7	1222.6	1433.6	1794.2	2427.0	3842.3	6756.3	8355.3	7232.9	7145.6	7145.6
50°	912.7	921.9	1013.0	1194.0	1509.1	2110.6	3466.1	6902.2	9426.8	8408.6	8257.6	8257.6
52.5°	738.3	747.4	820.3	964.8	1247.4	1750.0	2999.9	6868.3	10514.1	9868.2	9648.2	9648.2
55°	596.3	602.8	652.3	765.6	981.7	1391.9	2449.2	6564.9	11721.1	11774.4	11300.5	11300.5
57.5°	503.9	506.5	540.4	609.4	766.9	1072.9	1890.6	5848.8	12986.6	14206.7	13428.0	13428.0
60°	450.5	451.8	467.4	510.4	605.5	819.0	1385.4	4708.2	14297.8	17249.6	16181.9	16181.9
62.5°	416.7	416.7	429.7	454.4	502.6	630.2	1018.2	3381.4	15239.2	20560.7	19499.5	19499.5
65°	384.1	384.1	393.2	414.1	440.1	514.3	764.3	2180.9	15701.4	23328.8	23093.2	23093.2
67.5°	342.4	343.7	350.3	372.4	395.8	429.7	579.4	1475.2	14741.8	24094.4	25287.1	25287.1
70°	303.4	304.7	313.8	328.1	347.6	371.1	453.1	1016.9	10730.2	20067.2	22610.1	22610.1
72.5°	260.4	265.6	272.1	287.8	299.5	316.4	369.8	658.8	6243.3	12908.5	14946.2	14946.2
75°	213.5	220.0	227.9	243.5	251.3	257.8	304.7	470.0	3003.8	6541.5	7449.0	7449.0
77.5°	165.4	171.9	181.0	195.3	200.5	208.3	233.1	339.8	1438.8	2899.7	3126.2	3126.2
80°	110.7	113.3	121.1	138.0	147.1	152.3	171.9	231.8	625.0	1164.0	1153.6	1153.6
82.5°	67.7	69.0	71.6	82.0	85.9	91.1	112.0	141.9	298.2	1322.9	1516.9	1516.9
85°	24.7	23.4	22.1	28.6	33.9	39.1	52.1	71.6	130.2	908.8	1016.9	1016.9
87.5°	0.0	0.0	0.0	1.3	2.6	2.6	5.2	10.4	31.2	339.8	233.1	233.1
90°	0.0	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°	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9	3042.9
2.5°	3053.3	3039.0	3057.2	3070.2	3098.9	3109.3	3111.9	3102.8	3102.8	3087.2	3089.8
5°	3088.5	3079.3	3109.3	3131.4	3173.1	3188.7	3199.1	3192.6	3196.5	3186.1	3188.7
7.5°	3141.8	3134.0	3186.1	3229.1	3272.1	3290.3	3299.4	3294.2	3295.5	3282.5	3286.4
10°	3216.1	3218.7	3281.2	3337.2	3394.4	3412.7	3416.6	3401.0	3387.9	3364.5	3365.8
12.5°	3317.6	3330.6	3419.2	3481.7	3540.3	3566.3	3537.7	3480.4	3427.0	3386.6	3381.4
15°	3428.3	3451.7	3579.3	3658.8	3722.6	3709.5	3624.9	3496.0	3390.5	3330.6	3318.9
17.5°	3561.1	3596.3	3756.4	3851.5	3906.1	3822.8	3645.7	3453.0	3305.9	3225.2	3209.6
20°	3686.1	3742.1	3943.9	4067.6	4074.1	3886.6	3636.6	3365.8	3180.9	3082.0	3061.1
22.5°	3800.7	3872.3	4140.5	4298.1	4213.4	3915.3	3580.6	3242.1	3029.9	2914.0	2895.8
25°	3925.7	4027.2	4369.7	4516.8	4352.8	3903.5	3463.5	3088.5	2847.6	2729.1	2716.1
27.5°	4011.6	4139.2	4600.1	4740.8	4467.3	3837.1	3312.4	2920.5	2680.9	2568.9	2550.7
30°	4110.6	4273.3	4854.0	4984.2	4537.6	3739.5	3151.0	2764.3	2526.0	2404.9	2391.9
32.5°	4290.3	4494.7	5169.1	5242.1	4559.8	3618.4	2996.0	2613.2	2364.5	2243.4	2225.2
35°	4579.3	4818.9	5611.8	5529.8	4542.9	3485.6	2848.9	2436.1	2199.2	2085.9	2067.7
37.5°	4943.9	5242.1	6105.3	5788.9	4496.0	3339.8	2674.4	2287.7	2050.7	1936.1	1925.7
40°	5283.7	5650.9	6658.7	6012.9	4400.9	3160.1	2506.4	2132.8	1890.6	1769.5	1746.0
42.5°	5709.5	6197.8	7299.3	6206.9	4244.7	2945.2	2317.6	1941.4	1690.1	1580.7	1552.0
45°	6356.6	6963.4	8044.1	6393.1	4011.6	2680.9	2080.7	1708.3	1470.0	1358.0	1335.9
47.5°	7163.9	7920.4	8851.3	6503.7	3657.5	2402.3	1812.5	1462.2	1223.9	1097.6	1087.2
50°	8298.0	9312.3	9717.2	6484.2	3261.6	2071.6	1510.4	1169.2	970.0	878.9	864.6
52.5°	9679.4	11059.6	10653.4	6249.8	2841.1	1695.3	1177.1	917.9	769.5	704.4	692.7
55°	11412.5	13152.0	11639.0	5747.2	2309.8	1298.1	924.5	723.9	622.4	583.3	578.1
57.5°	13558.2	15861.6	12588.2	4900.9	1736.9	990.9	712.2	597.6	549.5	526.0	524.7
60°	16390.2	18737.8	13412.4	3808.5	1243.5	757.8	588.5	533.8	496.1	480.5	479.2
62.5°	19757.3	21349.7	13925.4	2593.7	934.9	604.2	518.2	484.4	462.2	453.1	451.8
65°	23218.2	23000.7	13680.6	1699.2	709.6	513.0	464.8	446.6	427.1	418.0	418.0
67.5°	25262.4	22651.8	11801.8	1179.7	562.5	450.5	419.3	402.3	369.8	362.0	362.0
70°	22375.7	18355.0	7735.5	863.3	455.7	394.5	364.6	341.1	328.1	320.3	319.0
72.5°	14799.1	11943.7	4113.2	598.9	380.2	335.9	308.6	299.5	283.8	276.0	274.7
75°	7365.7	6273.3	2108.0	432.3	316.4	269.5	257.8	253.9	240.9	230.5	227.9
77.5°	3070.2	2792.9	983.0	313.8	240.9	217.4	207.0	207.0	192.7	181.0	175.8
80°	1157.5	1031.2	464.8	214.8	178.4	161.5	154.9	149.7	138.0	123.7	115.9
82.5°	1548.1	1011.7	227.9	134.1	117.2	104.2	95.0	91.1	84.6	78.1	72.9
85°	1002.6	718.7	102.9	69.0	58.6	44.3	39.1	36.5	32.6	28.6	26.0
87.5°	204.4	240.9	31.2	13.0	7.8	3.9	3.9	1.3	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)