

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: P637552

Luminaire Tested: GWS-SA4D-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637552
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-SA4D-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18005.5 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

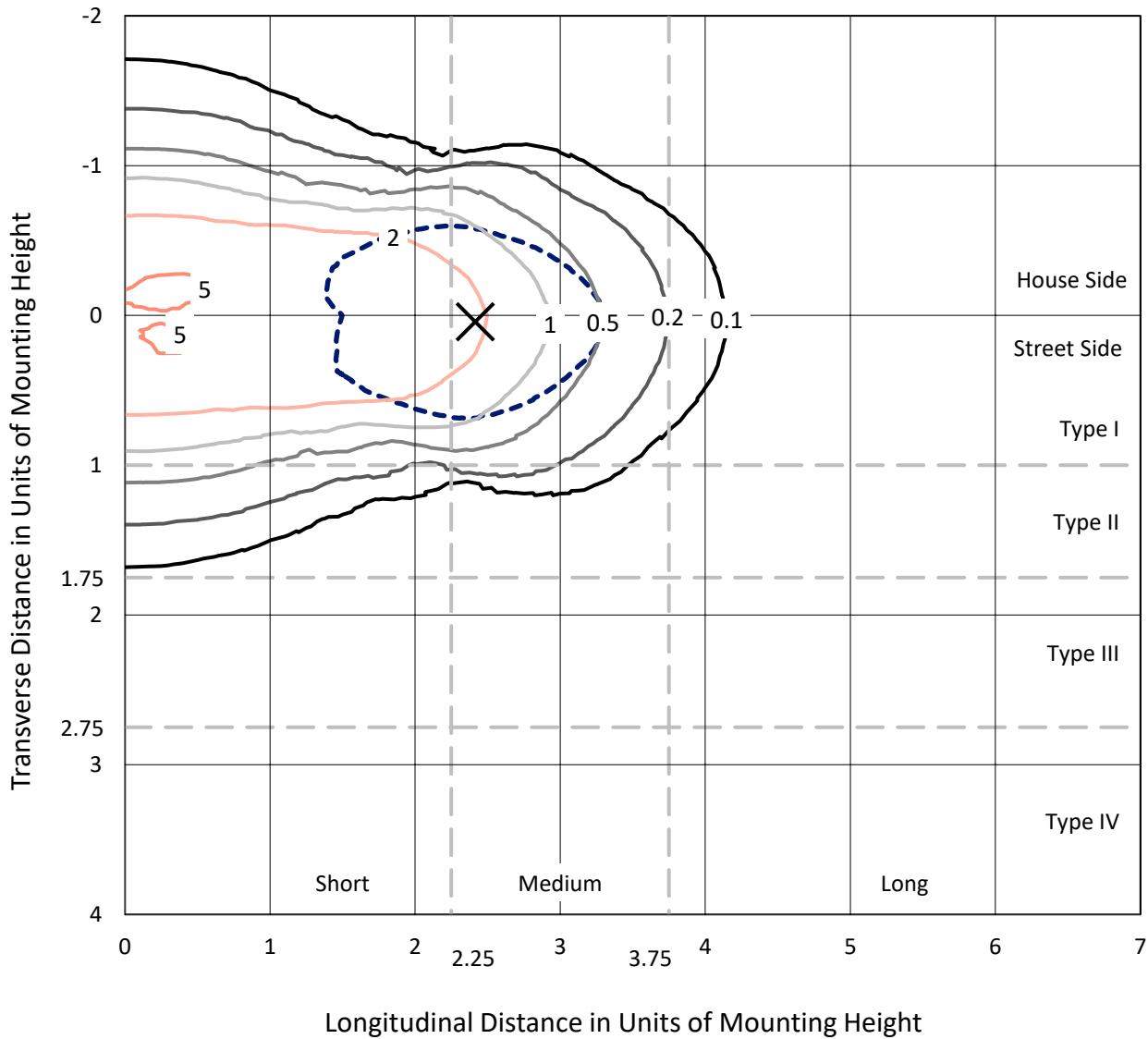
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

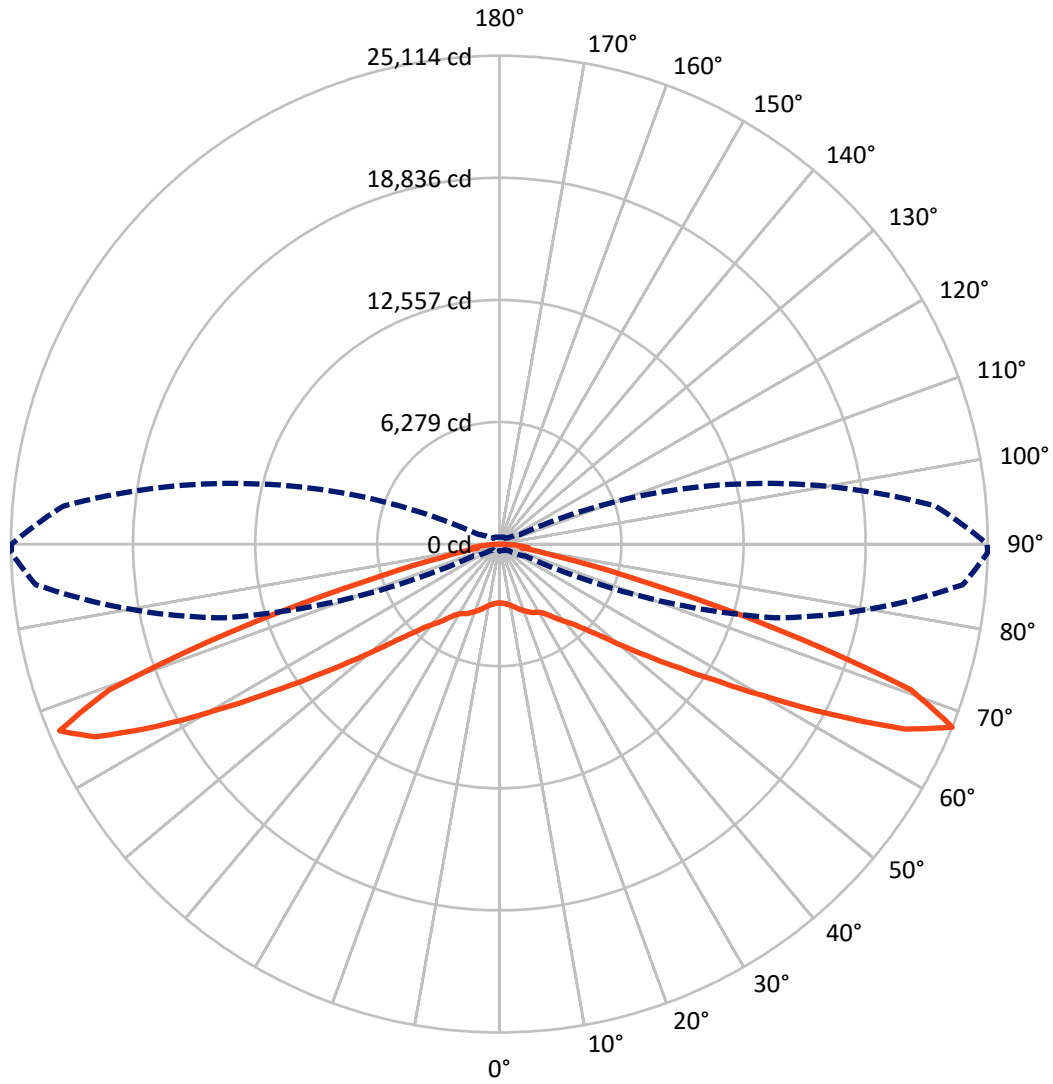
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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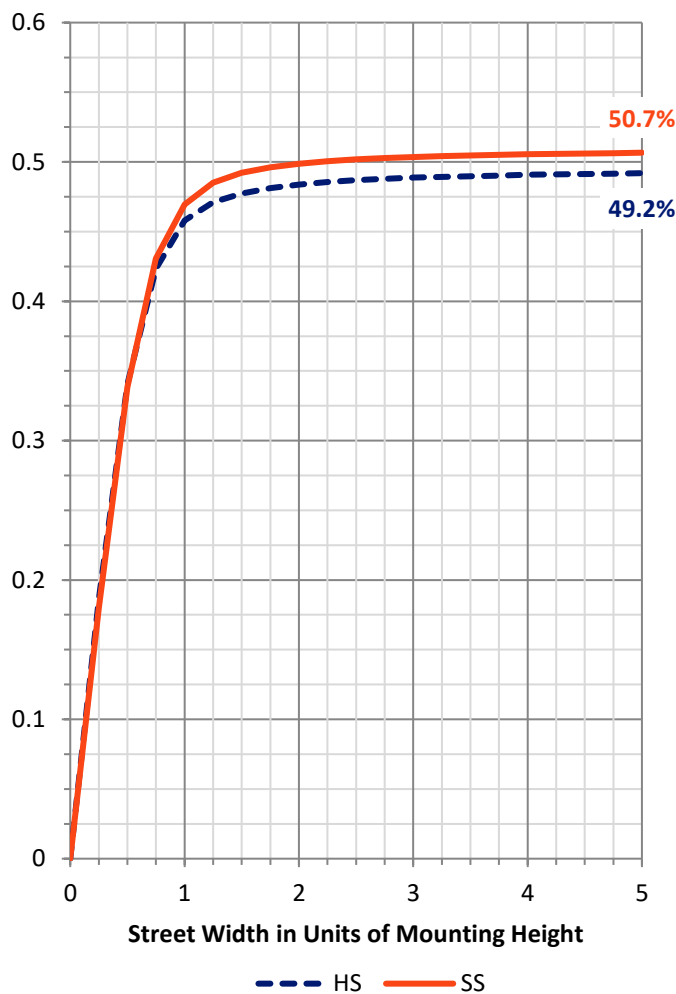
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8923.8	0.0	8923.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9081.6	0.0	9081.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	18005.5	0.0	18005.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	1.7
10°-20°	987.1	5.5
20°-30°	1668.6	9.3
30°-40°	2289.9	12.7
40°-50°	2920.2	16.2
50°-60°	3663.8	20.3
60°-70°	4418.8	24.5
70°-80°	1598.6	8.9
80°-90°	155.5	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°	18005.5	100.0
0°-180°	18005.5	100.0

Coefficient of Utilization



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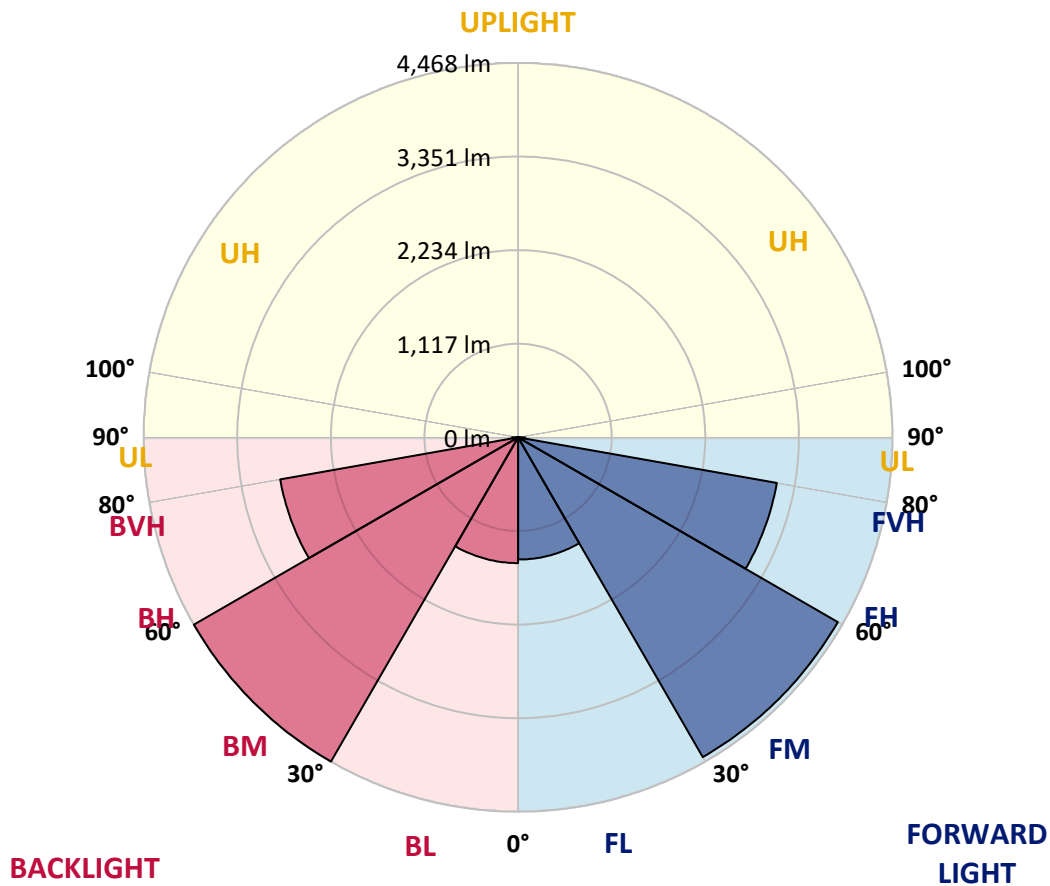
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.3	8.1			
FM (30°-60°)	4406.3	24.5			
FH (60°-80°)	3135.0	17.4			G2/5000
FVH (80°-90°)	82.0	0.5			G1/100
BL (0°-30°)	1500.5	8.3	B3/2500		
BM (30°-60°)	4467.5	24.8	B3/5000		
BH (60°-80°)	2882.4	16.0	B4/5000		G4/5000
BVH (80°-90°)	73.4	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°	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1
2.5°	3031.1	3028.5	3022.1	3041.5	3037.6	3038.9	3046.6	3041.5	3032.4	3016.9	3038.9	3038.9
5°	3116.5	3115.2	3101.0	3112.6	3099.7	3090.6	3089.3	3076.4	3066.0	3049.2	3072.5	3072.5
7.5°	3199.2	3197.9	3186.3	3207.0	3196.7	3186.3	3174.7	3148.8	3124.2	3099.7	3125.5	3125.5
10°	3262.6	3261.3	3258.7	3288.5	3291.1	3294.9	3289.8	3245.8	3203.1	3173.4	3199.2	3199.2
12.5°	3298.8	3302.7	3309.2	3363.5	3390.6	3416.5	3423.0	3386.7	3315.6	3272.9	3304.0	3304.0
15°	3274.2	3282.0	3314.3	3412.6	3487.6	3545.8	3570.4	3540.6	3448.8	3377.7	3412.6	3412.6
17.5°	3156.6	3163.0	3226.4	3376.4	3541.9	3676.4	3716.5	3698.4	3596.2	3509.6	3543.2	3543.2
20°	2993.6	3007.9	3076.4	3285.9	3532.9	3766.9	3874.3	3867.8	3756.6	3623.4	3663.5	3663.5
22.5°	2846.2	2863.0	2935.4	3166.9	3472.1	3790.2	4033.3	4050.1	3902.7	3737.2	3769.5	3769.5
25°	2680.7	2696.2	2789.3	3026.0	3367.3	3772.1	4169.1	4245.4	4068.2	3867.8	3897.5	3897.5
27.5°	2511.3	2522.9	2614.7	2866.9	3230.3	3738.5	4276.4	4460.1	4231.2	3958.3	3979.0	3979.0
30°	2362.6	2378.1	2462.1	2707.8	3080.3	3671.2	4364.4	4688.9	4418.7	4060.5	4077.3	4077.3
32.5°	2219.0	2232.0	2323.8	2551.4	2921.2	3567.8	4443.2	4957.9	4696.7	4250.6	4250.6	4250.6
35°	2038.0	2061.3	2164.7	2401.4	2771.2	3430.7	4500.1	5270.9	5076.9	4531.2	4532.5	4532.5
37.5°	1871.2	1884.1	1992.7	2232.0	2613.4	3275.5	4505.3	5595.4	5557.9	4888.1	4890.7	4890.7
40°	1681.1	1697.9	1814.3	2050.9	2432.4	3112.6	4456.2	5898.0	6062.3	5255.3	5241.1	5241.1
42.5°	1488.4	1513.0	1624.2	1855.7	2237.1	2913.5	4325.6	6186.4	6702.4	5680.8	5645.9	5645.9
45°	1302.2	1317.7	1428.9	1647.5	2013.4	2675.5	4116.1	6463.1	7462.7	6327.4	6276.9	6276.9
47.5°	1092.7	1099.2	1214.3	1423.8	1782.0	2410.4	3816.1	6710.1	8298.1	7183.4	7096.8	7096.8
50°	906.5	915.5	1006.1	1185.8	1498.8	2096.2	3442.4	6855.0	9362.4	8351.1	8201.1	8201.1
52.5°	733.2	742.3	814.7	958.2	1238.8	1738.0	2979.4	6821.3	10442.1	9800.7	9582.2	9582.2
55°	592.3	598.7	647.9	760.4	975.0	1382.4	2432.4	6520.0	11640.9	11693.9	11223.2	11223.2
57.5°	500.4	503.0	536.7	605.2	761.7	1065.6	1877.6	5808.8	12897.8	14109.5	13336.2	13336.2
60°	447.4	448.7	464.2	506.9	601.3	813.4	1375.9	4676.0	14200.0	17131.6	16071.2	16071.2
62.5°	413.8	413.8	426.7	451.3	499.2	625.9	1011.2	3358.3	15135.0	20420.0	19366.1	19366.1
65°	381.5	381.5	390.5	411.2	437.1	510.8	759.1	2166.0	15594.0	23169.3	22935.2	22935.2
67.5°	340.1	341.4	347.9	369.8	393.1	426.7	575.4	1465.1	14641.0	23929.6	25114.2	25114.2
70°	301.3	302.6	311.6	325.9	345.3	368.5	450.0	1009.9	10656.8	19929.9	22455.5	22455.5
72.5°	258.6	263.8	270.3	285.8	297.4	314.2	367.3	654.3	6200.6	12820.2	14844.0	14844.0
75°	212.1	218.5	226.3	241.8	249.6	256.0	302.6	466.8	2983.3	6496.8	7398.1	7398.1
77.5°	164.2	170.7	179.7	194.0	199.1	206.9	231.5	337.5	1428.9	2879.8	3104.8	3104.8
80°	109.9	112.5	120.3	137.1	146.1	151.3	170.7	230.2	620.7	1156.1	1145.7	1145.7
82.5°	67.2	68.5	71.1	81.5	85.3	90.5	111.2	141.0	296.1	1313.8	1506.5	1506.5
85°	24.6	23.3	22.0	28.4	33.6	38.8	51.7	71.1	129.3	902.6	1009.9	1009.9
87.5°	0.0	0.0	0.0	1.3	2.6	2.6	5.2	10.3	31.0	337.5	231.5	231.5
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°	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1	3022.1
2.5°	3032.4	3018.2	3036.3	3049.2	3077.7	3088.0	3090.6	3081.6	3081.6	3066.0	3068.6
5°	3067.3	3058.3	3088.0	3110.0	3151.4	3166.9	3177.3	3170.8	3174.7	3164.3	3166.9
7.5°	3120.4	3112.6	3164.3	3207.0	3249.7	3267.8	3276.8	3271.7	3272.9	3260.0	3263.9
10°	3194.1	3196.7	3258.7	3314.3	3371.2	3389.3	3393.2	3377.7	3364.8	3341.5	3342.8
12.5°	3294.9	3307.9	3395.8	3457.9	3516.1	3541.9	3513.5	3456.6	3403.6	3363.5	3358.3
15°	3404.8	3428.1	3554.9	3633.7	3697.1	3684.2	3600.1	3472.1	3367.3	3307.9	3296.2
17.5°	3536.7	3571.7	3730.7	3825.1	3879.4	3796.7	3620.8	3429.4	3283.3	3203.1	3187.6
20°	3660.9	3716.5	3916.9	4039.8	4046.2	3860.0	3611.8	3342.8	3159.2	3060.9	3040.2
22.5°	3774.7	3845.8	4112.2	4268.7	4184.6	3888.5	3556.1	3219.9	3009.1	2894.1	2876.0
25°	3898.8	3999.7	4339.8	4485.9	4323.0	3876.8	3439.8	3067.3	2828.1	2710.4	2697.5
27.5°	3984.2	4110.9	4568.7	4708.3	4436.8	3810.9	3289.8	2900.5	2662.6	2551.4	2533.3
30°	4082.5	4244.1	4820.8	4950.2	4506.6	3713.9	3129.4	2745.3	2508.7	2388.4	2375.5
32.5°	4260.9	4463.9	5133.8	5206.2	4528.6	3593.6	2975.5	2595.3	2348.3	2228.1	2210.0
35°	4548.0	4785.9	5573.5	5492.0	4511.8	3461.7	2829.4	2419.5	2184.1	2071.6	2053.5
37.5°	4910.1	5206.2	6063.6	5749.3	4465.2	3316.9	2656.1	2272.1	2036.7	1922.9	1912.6
40°	5247.6	5612.2	6613.1	5971.7	4370.8	3138.5	2489.3	2118.2	1877.6	1757.4	1734.1
42.5°	5670.4	6155.4	7249.4	6164.4	4215.7	2925.1	2301.8	1928.1	1678.5	1569.9	1541.4
45°	6313.1	6915.7	7989.0	6349.3	3984.2	2662.6	2066.4	1696.6	1460.0	1348.7	1326.8
47.5°	7114.9	7866.2	8790.8	6459.3	3632.4	2385.9	1800.1	1452.2	1215.6	1090.1	1079.8
50°	8241.2	9248.6	9650.7	6439.9	3239.3	2057.4	1500.0	1161.2	963.4	872.9	858.6
52.5°	9613.2	10984.0	10580.5	6207.1	2821.6	1683.7	1169.0	911.7	764.2	699.6	688.0
55°	11334.4	13062.1	11559.4	5707.9	2294.0	1289.3	918.1	719.0	618.1	579.3	574.2
57.5°	13465.5	15753.1	12502.1	4867.4	1725.1	984.1	707.3	593.6	545.7	522.4	521.1
60°	16278.1	18609.6	13320.7	3782.4	1235.0	752.6	584.5	530.2	492.7	477.2	475.9
62.5°	19622.2	21203.7	13830.2	2575.9	928.5	600.0	514.7	481.0	459.1	450.0	448.7
65°	23059.3	22843.4	13587.1	1687.6	704.8	509.5	461.7	443.5	424.2	415.1	415.1
67.5°	25089.6	22496.8	11721.1	1171.6	558.6	447.4	416.4	399.6	367.3	359.5	359.5
70°	22222.7	18229.5	7682.6	857.4	452.6	391.8	362.1	338.8	325.9	318.1	316.8
72.5°	14697.9	11862.0	4085.0	594.8	377.6	333.6	306.5	297.4	281.9	274.1	272.9
75°	7315.3	6230.4	2093.6	429.3	314.2	267.7	256.0	252.2	239.2	228.9	226.3
77.5°	3049.2	2773.8	976.3	311.6	239.2	216.0	205.6	205.6	191.4	179.7	174.6
80°	1149.6	1024.2	461.7	213.4	177.2	160.3	153.9	148.7	137.1	122.8	115.1
82.5°	1537.5	1004.8	226.3	133.2	116.4	103.5	94.4	90.5	84.1	77.6	72.4
85°	995.7	713.8	102.2	68.5	58.2	44.0	38.8	36.2	32.3	28.4	25.9
87.5°	203.0	239.2	31.0	12.9	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)