

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: P643512

Luminaire Tested: GWS-SA6F-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36346.3 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

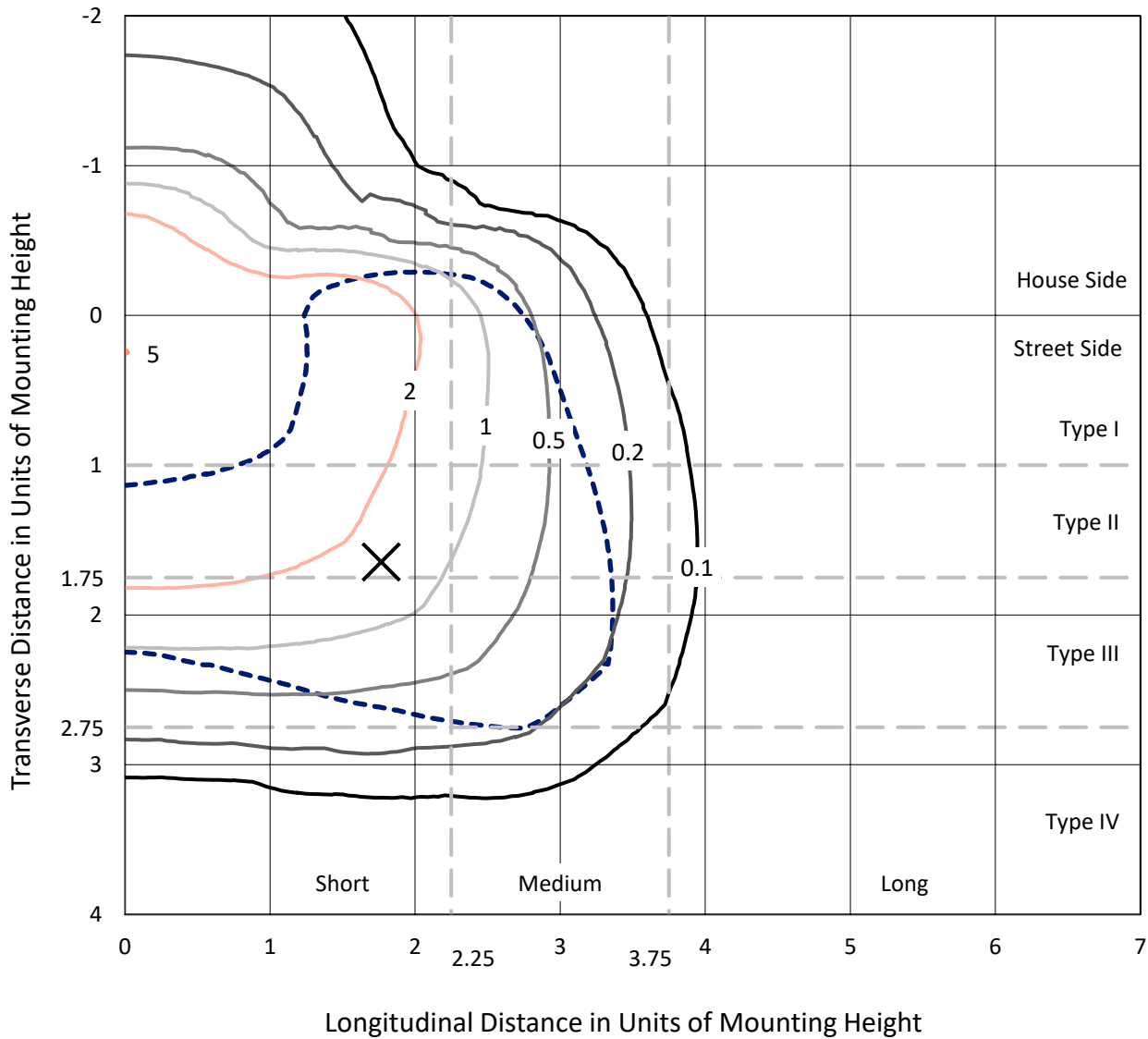
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

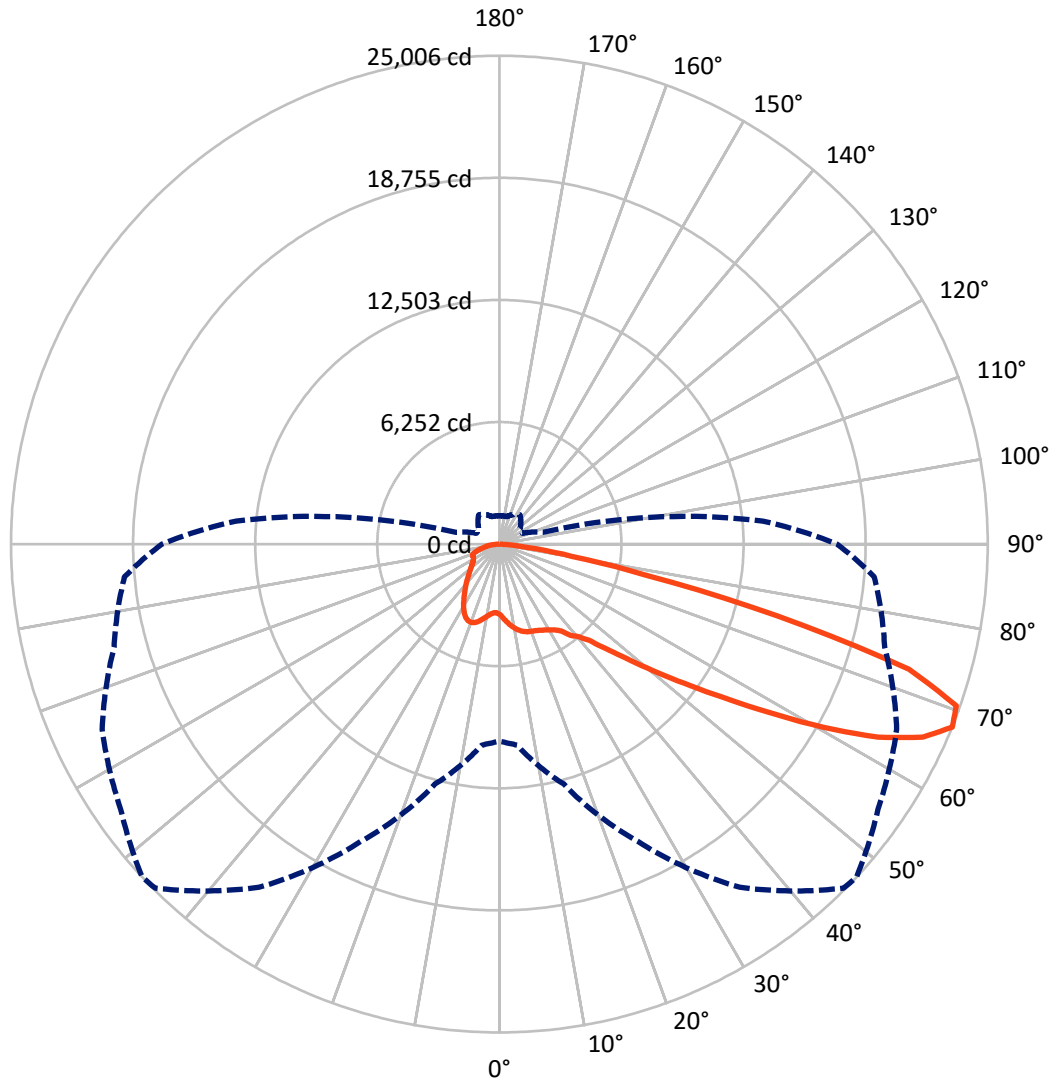
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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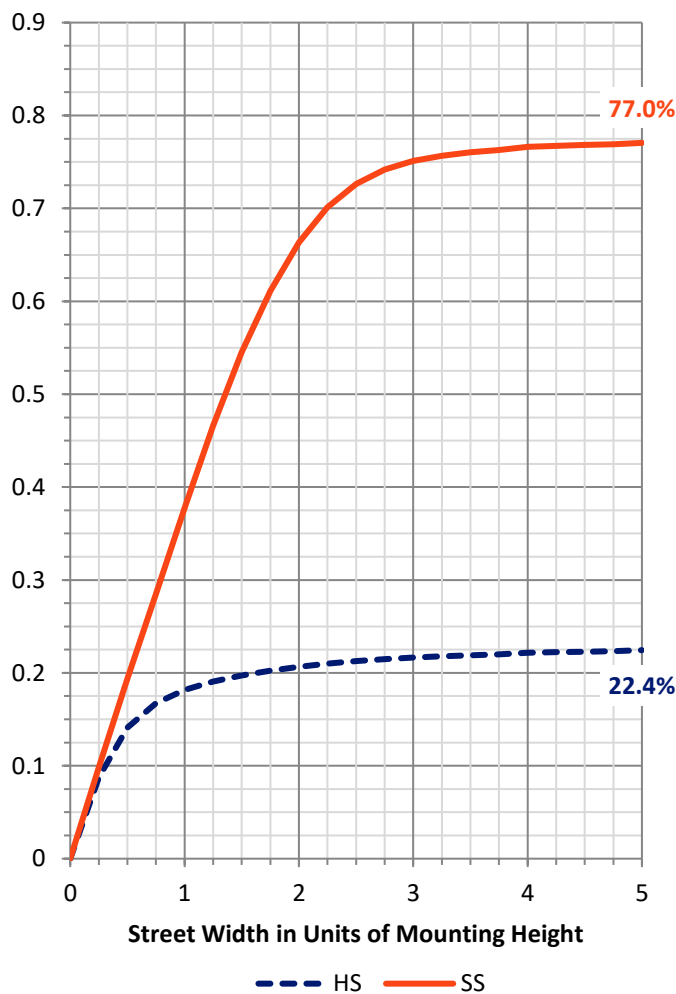
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8283.6	0.0	8283.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	28062.7	0.0	28062.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	36346.3	0.0	36346.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	1.0
10°-20°	1226.8	3.4
20°-30°	2085.3	5.7
30°-40°	3054.7	8.4
40°-50°	4654.2	12.8
50°-60°	8327.4	22.9
60°-70°	11112.1	30.6
70°-80°	5025.1	13.8
80°-90°	492.3	1.4
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°	36346.3	100.0
0°-180°	36346.3	100.0

Coefficient of Utilization



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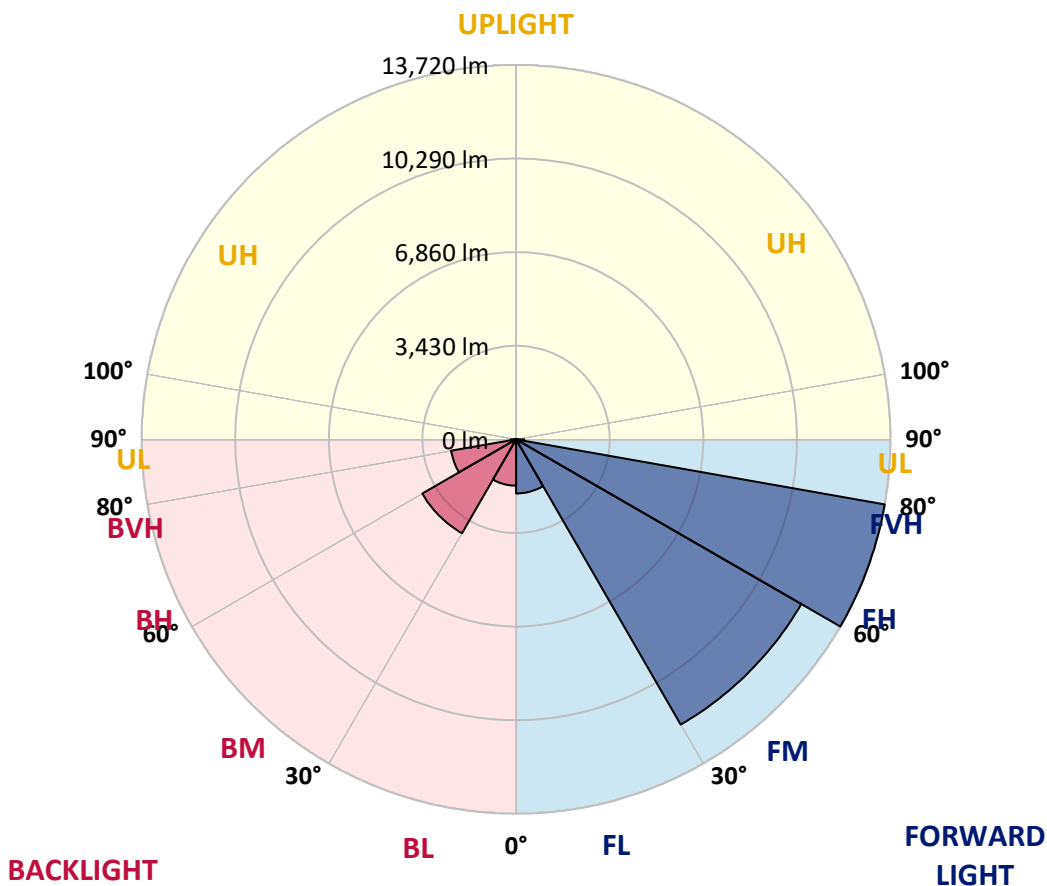
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.2	5.5			
FM (30°-60°)	12067.3	33.2			
FH (60°-80°)	13720.3	37.7			G5
FVH (80°-90°)	292.8	0.8			G3/500
BL (0°-30°)	1698.2	4.7	B3/2500		
BM (30°-60°)	3969.1	10.9	B3/5000		
BH (60°-80°)	2416.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	199.5	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1
2.5°	3842.2	3855.4	3852.7	3831.7	3818.6	3794.9	3797.5	3760.8	3705.6	3668.8	3626.7
5°	4181.2	4202.3	4176.0	4141.8	4089.3	4013.0	4005.2	3921.1	3815.9	3742.4	3666.1
7.5°	4475.6	4488.7	4457.2	4399.4	4323.2	4220.7	4202.3	4102.4	3971.0	3855.4	3745.0
10°	4704.2	4720.0	4677.9	4601.7	4501.9	4399.4	4386.2	4283.7	4144.4	4007.8	3868.5
12.5°	4898.7	4904.0	4859.3	4756.8	4649.0	4543.9	4530.8	4436.2	4307.4	4168.1	4015.7
15°	5011.7	5014.3	4959.1	4846.1	4743.6	4651.7	4643.8	4562.3	4444.0	4312.6	4149.7
17.5°	5003.8	5009.1	4969.7	4869.8	4780.4	4725.2	4717.4	4664.8	4572.8	4454.6	4291.6
20°	4906.6	4911.8	4885.6	4819.9	4772.6	4756.8	4759.4	4743.6	4688.5	4591.2	4425.7
22.5°	4830.4	4838.3	4814.6	4767.3	4762.0	4798.8	4806.7	4814.6	4788.3	4701.6	4541.3
25°	4867.2	4880.3	4843.5	4777.8	4788.3	4869.8	4885.6	4911.8	4890.8	4817.2	4677.9
27.5°	5122.1	5130.0	5035.4	4901.3	4869.8	4956.5	4980.2	5022.2	5006.5	4938.1	4830.4
30°	5713.4	5708.1	5505.8	5177.3	5045.9	5080.0	5098.4	5158.9	5164.1	5119.5	5017.0
32.5°	6546.5	6520.2	6207.5	5684.5	5303.4	5219.3	5240.3	5321.8	5382.3	5335.0	5195.7
35°	7426.9	7403.2	7059.0	6446.6	5779.1	5487.4	5463.7	5526.8	5618.8	5487.4	5287.7
37.5°	8265.2	8228.5	7876.3	7119.4	6365.2	5957.8	5923.6	5860.6	5805.4	5553.1	5400.7
40°	9195.6	9153.5	8846.0	7989.3	7011.7	6317.9	6231.1	5981.5	5931.5	5771.2	5695.0
42.5°	10189.0	10189.0	9934.1	9090.5	7792.2	6833.0	6719.9	6344.1	6396.7	6291.6	6202.2
45°	11182.4	11211.3	11008.9	10199.5	8835.5	7805.3	7624.0	7090.5	7216.6	7169.3	7124.7
47.5°	12028.6	12083.8	12044.4	11332.2	10112.8	8988.0	8712.0	8157.5	8428.2	8541.2	8667.3
50°	12940.6	13001.0	12961.6	12680.4	11608.1	10420.3	10173.2	9600.3	10065.5	10404.5	10817.1
52.5°	14294.0	14380.7	14052.2	13944.5	13424.1	12047.0	11826.3	11174.5	12018.1	12580.5	13500.3
55°	15437.2	15434.6	15319.0	15566.0	15374.1	14036.5	13792.1	13200.7	14278.2	14874.8	16220.4
57.5°	15968.1	16031.2	16428.0	17127.1	17510.8	16467.4	16233.5	15629.1	16703.9	17014.1	18467.4
60°	16241.4	16320.2	17087.6	18470.0	19502.8	19121.8	19029.8	18259.8	18864.2	18827.4	20362.2
62.5°	15857.7	16015.4	17247.9	19085.0	20924.6	21789.2	21760.3	20596.1	20701.2	20341.2	21536.9
65°	14096.9	14267.7	16202.0	18777.5	21736.7	23818.1	23826.0	22711.7	22112.5	21077.0	21339.8
67.5°	10081.2	10325.6	12717.2	16801.2	21450.2	24914.0	25006.0	23670.9	22443.6	20425.3	19268.9
70°	5495.3	5674.0	7547.8	12212.6	18869.5	24651.2	24822.0	23208.4	20982.4	17668.4	14832.8
72.5°	2496.7	2554.5	3511.1	6701.5	12890.6	21218.9	21933.8	20711.7	17232.2	13050.9	9432.1
75°	1143.2	1169.5	1529.5	3206.2	6735.7	14199.4	14701.4	15426.7	11991.8	8241.6	4917.1
77.5°	717.5	725.3	869.9	1466.5	3358.7	7087.9	7616.1	9185.1	7022.2	4078.7	2055.1
80°	423.1	431.0	541.4	793.7	1576.8	3243.0	3745.0	3632.0	3300.8	1760.8	935.6
82.5°	212.9	220.8	312.7	452.0	859.4	1290.4	1519.0	1526.9	1229.9	954.0	528.2
85°	76.2	78.8	102.5	178.7	365.3	425.7	475.7	580.8	601.8	554.5	254.9
87.5°	0.0	0.0	2.6	5.3	10.5	42.0	44.7	84.1	176.1	197.1	102.5
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°	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1	3603.1
2.5°	3613.6	3574.2	3561.0	3547.9	3526.9	3519.0	3503.2	3487.4	3487.4	3471.7	3463.8
5°	3632.0	3579.4	3545.3	3529.5	3516.3	3524.2	3524.2	3529.5	3547.9	3537.4	3542.6
7.5°	3697.7	3637.2	3589.9	3576.8	3576.8	3608.3	3629.3	3655.6	3689.8	3695.1	3695.1
10°	3813.3	3742.4	3692.4	3684.5	3697.7	3742.4	3773.9	3805.4	3847.5	3850.1	3855.4
12.5°	3939.5	3868.5	3818.6	3829.1	3842.2	3900.0	3934.2	3960.5	4002.5	4002.5	3999.9
15°	4070.9	3992.0	3950.0	3971.0	4010.4	4076.1	4081.4	4084.0	4105.0	4099.8	4097.1
17.5°	4207.5	4123.4	4091.9	4123.4	4165.5	4197.0	4170.7	4133.9	4126.1	4115.5	4110.3
20°	4341.6	4254.8	4241.7	4265.3	4278.5	4252.2	4170.7	4102.4	4070.9	4055.1	4049.8
22.5°	4457.2	4383.6	4375.7	4375.7	4310.0	4218.0	4097.1	4005.2	3963.1	3942.1	3936.8
25°	4593.8	4525.5	4512.4	4441.4	4273.2	4105.0	3942.1	3858.0	3823.8	3813.3	3815.9
27.5°	4754.2	4706.9	4664.8	4462.4	4168.1	3905.3	3721.3	3684.5	3671.4	3684.5	3692.4
30°	4951.3	4904.0	4809.3	4436.2	3999.9	3645.1	3469.0	3466.4	3505.8	3540.0	3545.3
32.5°	5111.6	5090.5	4935.5	4352.1	3763.4	3358.7	3208.9	3219.4	3290.3	3337.6	3345.5
35°	5237.7	5271.9	5040.6	4212.8	3482.2	3088.0	2969.7	2975.0	3014.4	3080.1	3082.7
37.5°	5416.4	5532.1	5135.2	3999.9	3158.9	2854.1	2746.3	2706.9	2701.6	2720.0	2725.3
40°	5776.5	5949.9	5203.6	3689.8	2846.2	2643.8	2522.9	2446.7	2381.0	2331.1	2315.3
42.5°	6320.5	6520.2	5243.0	3314.0	2567.6	2436.2	2299.6	2202.3	2086.7	1981.6	1944.8
45°	7319.1	7384.8	5243.0	2914.5	2320.6	2241.7	2105.1	1989.4	1842.3	1718.8	1692.5
47.5°	8917.0	8706.8	5248.2	2528.2	2102.4	2070.9	1952.6	1821.2	1658.3	1555.8	1540.0
50°	11324.3	10585.8	5356.0	2207.6	1921.1	1926.4	1839.6	1695.1	1547.9	1471.7	1458.6
52.5°	14052.2	12901.1	5645.1	1971.0	1768.7	1808.1	1760.8	1621.5	1490.1	1424.4	1411.3
55°	16617.2	15029.9	5892.1	1802.8	1639.9	1708.2	1705.6	1576.8	1458.6	1392.9	1385.0
57.5°	18798.5	16488.4	5855.3	1666.2	1529.5	1616.3	1655.7	1547.9	1437.5	1382.4	1374.5
60°	20154.6	17261.1	5332.3	1540.0	1445.4	1550.6	1626.8	1540.0	1448.1	1434.9	1437.5
62.5°	20743.3	17119.2	4328.4	1445.4	1390.2	1519.0	1658.3	1595.2	1545.3	1576.8	1595.2
65°	19828.7	15899.8	3185.2	1374.5	1337.7	1526.9	1731.9	1682.0	1545.3	1566.3	1574.2
67.5°	17290.0	13534.5	2302.2	1303.5	1272.0	1550.6	1837.0	1668.8	1455.9	1455.9	1440.2
70°	12459.6	9734.3	1671.4	1232.6	1206.3	1516.4	1842.3	1579.5	1353.5	1345.6	1306.1
72.5°	7497.9	5742.3	1303.5	1153.7	1106.4	1345.6	1726.6	1474.3	1253.6	1187.9	1140.6
75°	3894.8	2877.7	1093.3	1067.0	948.7	1140.6	1579.5	1311.4	1072.2	1014.4	988.2
77.5°	1668.8	1345.6	938.2	951.4	788.4	959.2	1274.6	1135.3	951.4	877.8	854.1
80°	822.6	764.8	741.1	762.1	630.7	741.1	1098.5	993.4	806.8	722.7	688.6
82.5°	470.4	446.8	533.5	541.4	449.4	620.2	927.7	841.0	667.5	575.5	520.4
85°	218.1	233.9	323.3	325.9	278.6	425.7	607.1	473.1	354.8	294.3	281.2
87.5°	86.7	102.5	141.9	139.3	81.5	78.8	52.6	28.9	23.7	21.0	18.4
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)