

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: P641029

Luminaire Tested: GWS-SA5F-722-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641029
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-SA5F-722-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30765.2 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

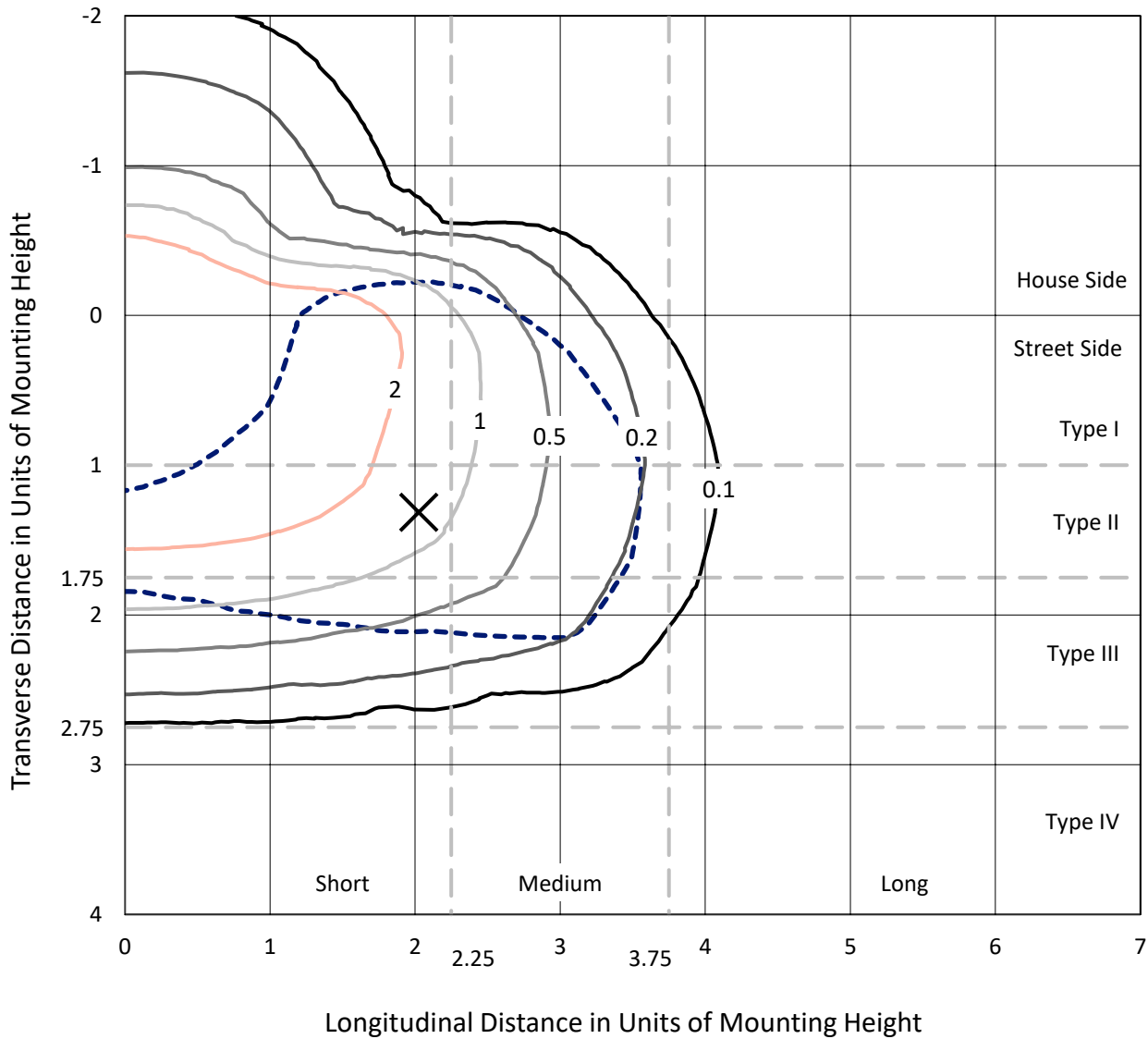
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

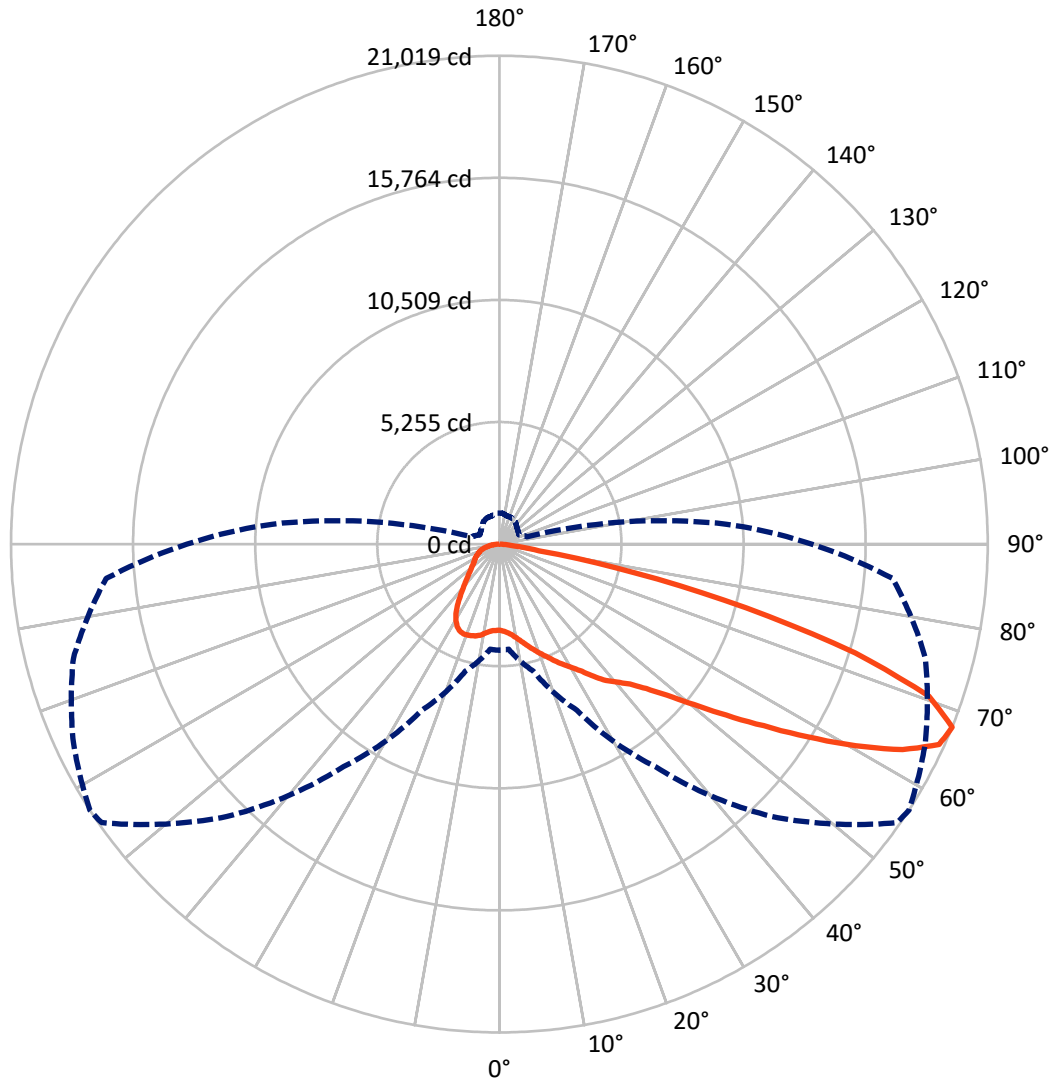
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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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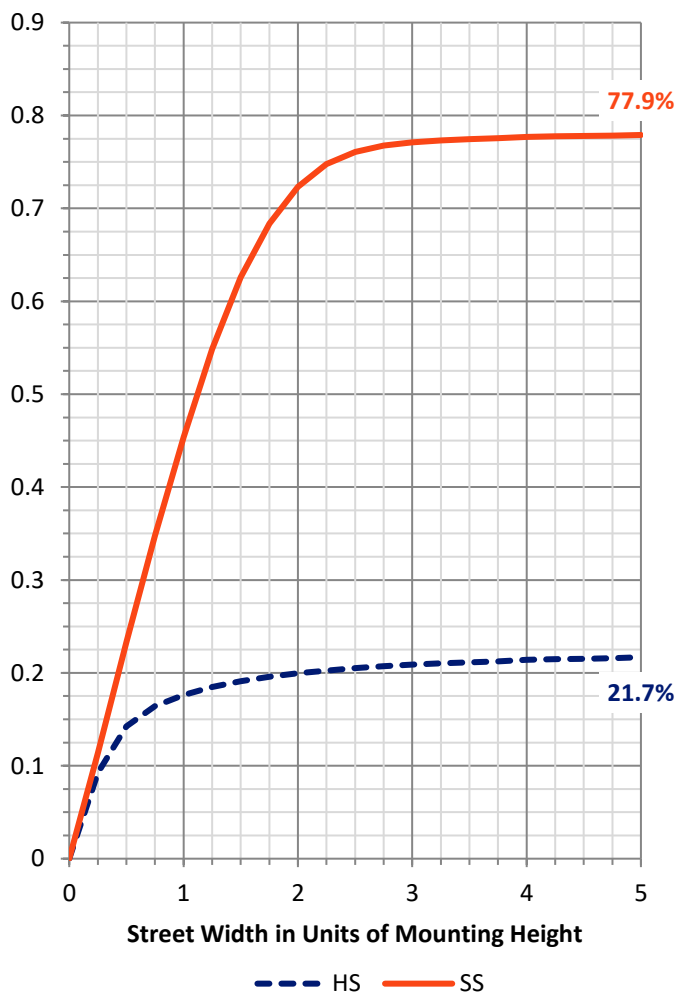
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6764.1	0.0	6764.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24001.1	0.0	24001.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	30765.2	0.0	30765.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.7	1.2
10°-20°	1217.1	4.0
20°-30°	2169.9	7.1
30°-40°	3154.8	10.3
40°-50°	4566.0	14.8
50°-60°	7145.7	23.2
60°-70°	8335.9	27.1
70°-80°	3479.8	11.3
80°-90°	328.4	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°	30765.2	100.0
0°-180°	30765.2	100.0

Coefficient of Utilization



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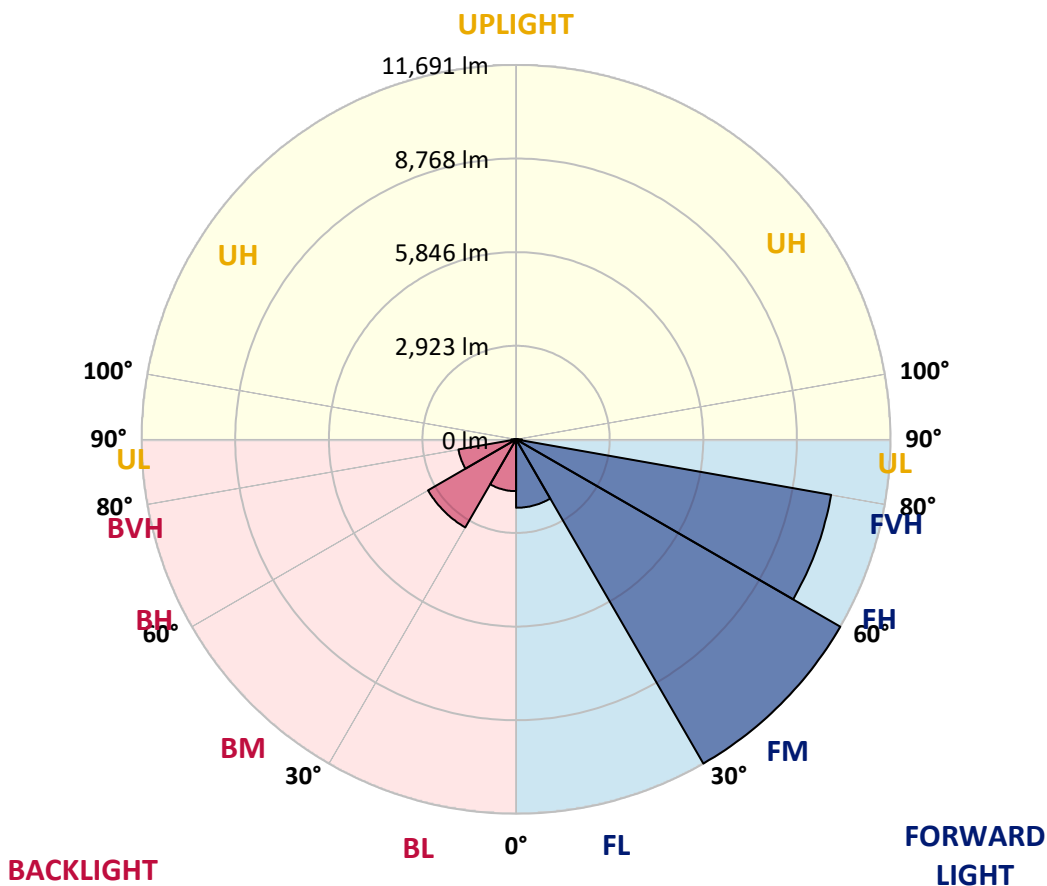
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.9	6.9			
FM (30°-60°)	11691.2	38.0			
FH (60°-80°)	9990.0	32.5			G4/12000
FVH (80°-90°)	182.9	0.6			G2/225
BL (0°-30°)	1617.8	5.3	B3/2500		
BM (30°-60°)	3175.3	10.3	B3/5000		
BH (60°-80°)	1825.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	145.4	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°	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0
2.5°	3759.9	3755.5	3753.3	3766.5	3762.1	3759.9	3759.9	3757.7	3753.3	3735.6	3711.4
5°	3863.5	3854.7	3845.8	3856.9	3848.0	3839.2	3837.0	3832.6	3817.2	3790.7	3753.3
7.5°	3971.5	3962.7	3964.9	3971.5	3964.9	3960.4	3953.8	3949.4	3925.2	3883.3	3832.6
10°	4123.5	4123.5	4127.9	4134.6	4136.8	4130.2	4116.9	4110.3	4081.7	4028.8	3958.2
12.5°	4343.9	4339.5	4339.5	4335.1	4341.7	4335.1	4321.9	4310.9	4275.6	4207.3	4105.9
15°	4634.8	4617.2	4601.8	4573.1	4564.3	4540.1	4544.5	4537.9	4504.8	4412.3	4284.4
17.5°	4945.6	4943.4	4919.2	4861.9	4804.6	4764.9	4773.7	4771.5	4753.9	4628.2	4465.1
20°	5218.9	5229.9	5207.9	5163.8	5086.7	5011.7	5007.3	5018.3	4996.3	4870.7	4643.7
22.5°	5525.2	5516.4	5494.4	5437.1	5379.8	5300.4	5274.0	5265.2	5256.4	5113.1	4826.6
25°	5816.2	5842.6	5813.9	5761.1	5672.9	5586.9	5564.9	5573.7	5549.5	5359.9	5022.7
27.5°	6184.2	6195.2	6177.6	6104.9	6029.9	5908.7	5866.8	5866.8	5858.0	5591.4	5177.0
30°	6576.5	6607.4	6576.5	6517.0	6439.9	6265.8	6175.4	6166.6	6140.1	5829.4	5357.7
32.5°	6971.0	6993.0	6971.0	6913.7	6825.5	6673.5	6543.4	6523.6	6488.3	6089.4	5542.9
35°	7321.4	7341.3	7336.9	7350.1	7277.4	7085.6	7006.3	6997.5	6904.9	6428.8	5794.1
37.5°	7704.9	7729.2	7696.1	7722.5	7693.9	7513.2	7488.9	7444.8	7312.6	6748.4	6058.6
40°	8141.3	8163.3	8110.4	8121.5	8088.4	7987.0	7863.6	7804.1	7607.9	7094.4	6475.1
42.5°	8608.5	8659.2	8683.5	8663.6	8586.5	8529.2	8313.2	8238.3	8075.2	7718.1	7160.5
45°	9285.1	9360.1	9395.3	9344.6	9311.6	9230.0	8965.6	8875.2	8789.2	8597.5	8117.0
47.5°	10014.6	10082.9	10195.3	10217.4	10243.8	10182.1	9809.7	9721.5	9736.9	9714.9	9293.9
50°	10596.5	10653.8	10907.2	11178.3	11403.1	11420.7	10944.7	10849.9	10933.7	11004.2	10711.1
52.5°	11019.6	11070.3	11405.3	11965.1	12474.2	12851.1	12337.6	12229.6	12297.9	12456.6	12322.1
55°	11363.4	11433.9	11784.4	12643.9	13673.1	14268.2	13939.8	13803.2	13774.5	13970.7	14047.8
57.5°	11544.1	11566.2	12057.7	13175.0	14552.5	15658.9	15802.1	15647.8	15374.6	15482.6	15883.7
60°	11132.0	11169.5	11841.7	13311.7	15246.7	17038.5	17757.0	17629.2	17047.3	17106.8	17549.8
62.5°	9992.6	10045.5	10854.3	12661.5	15304.0	17959.8	19562.0	19480.5	18700.3	18378.5	18510.7
65°	8015.7	8033.3	8870.8	11052.7	14164.6	18074.4	20820.5	20800.6	19855.1	19101.4	18535.0
67.5°	4570.9	4540.1	5659.7	7883.4	11689.6	16584.5	20902.0	21018.8	20229.8	18982.4	16992.2
70°	1981.3	1985.7	2501.5	3889.9	7566.1	13404.3	19414.4	19614.9	19145.5	17001.1	13518.9
72.5°	916.8	930.1	1152.7	1683.8	3230.9	8315.4	15830.8	16011.5	15608.2	13607.0	9836.1
75°	648.0	659.0	769.2	965.3	1485.4	3239.8	10589.8	10968.9	11165.1	10177.7	6481.7
77.5°	491.5	506.9	562.0	670.0	916.8	1148.2	5066.8	5970.4	7112.1	6331.9	3338.9
80°	313.0	313.0	372.5	447.4	559.8	597.3	1463.4	1734.5	3480.0	2609.4	1311.3
82.5°	211.6	218.2	253.5	284.3	321.8	339.4	628.1	670.0	1005.0	888.2	540.0
85°	112.4	116.8	132.2	130.0	154.3	134.4	264.5	262.3	368.1	403.3	205.0
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	28.7	30.9	77.1	123.4	68.3
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°	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0	3707.0
2.5°	3724.6	3698.2	3711.4	3707.0	3720.2	3720.2	3696.0	3689.4	3691.6	3665.1	3656.3
5°	3757.7	3726.8	3733.4	3724.6	3737.9	3748.9	3737.9	3737.9	3751.1	3731.2	3720.2
7.5°	3832.6	3797.4	3797.4	3786.3	3801.8	3810.6	3801.8	3815.0	3839.2	3819.4	3808.4
10°	3951.6	3909.8	3912.0	3898.7	3905.4	3900.9	3865.7	3854.7	3861.3	3843.6	3834.8
12.5°	4105.9	4048.6	4048.6	4022.2	4006.7	3960.4	3887.7	3861.3	3865.7	3850.3	3843.6
15°	4253.6	4200.7	4189.7	4136.8	4066.2	3980.3	3914.2	3896.5	3900.9	3885.5	3874.5
17.5°	4427.7	4359.4	4319.7	4222.7	4092.7	4004.5	3938.4	3896.5	3861.3	3826.0	3817.2
20°	4588.6	4502.6	4429.9	4280.0	4121.3	4000.1	3876.7	3773.1	3687.2	3640.9	3629.9
22.5°	4753.9	4643.7	4515.8	4319.7	4119.1	3920.8	3693.8	3537.3	3409.5	3341.1	3354.4
25°	4910.3	4771.5	4597.4	4357.2	4048.6	3744.5	3435.9	3202.3	3056.8	3003.9	2988.5
27.5°	5040.4	4868.5	4672.3	4339.5	3903.1	3491.0	3083.3	2823.2	2682.2	2622.7	2607.2
30°	5185.8	4991.9	4780.3	4258.0	3673.9	3136.2	2684.4	2472.8	2371.4	2314.1	2316.3
32.5°	5353.3	5150.6	4932.4	4101.5	3380.8	2752.7	2356.0	2210.5	2129.0	2071.7	2062.9
35°	5578.1	5377.6	5033.8	3865.7	3008.4	2400.1	2131.2	2012.2	1910.8	1835.9	1820.4
37.5°	5855.8	5719.2	5044.8	3550.5	2609.4	2157.6	1970.3	1842.5	1719.1	1619.9	1608.9
40°	6331.9	6175.4	4954.4	3156.0	2270.0	2001.2	1835.9	1688.2	1544.9	1434.8	1419.3
42.5°	7010.7	6688.9	4760.5	2710.8	2014.4	1877.7	1708.0	1520.7	1375.2	1298.1	1287.1
45°	7874.6	7261.9	4469.6	2292.1	1824.8	1756.5	1573.6	1377.5	1300.3	1245.2	1234.2
47.5°	8932.5	7929.7	4134.6	1965.9	1677.2	1646.3	1437.0	1329.0	1260.6	1214.4	1203.3
50°	10197.5	8780.4	3859.1	1710.2	1544.9	1518.5	1392.9	1300.3	1245.2	1207.7	1198.9
52.5°	11641.1	9725.9	3724.6	1527.3	1430.3	1403.9	1377.5	1293.7	1247.4	1218.8	1207.7
55°	13139.8	10722.1	3599.0	1386.3	1333.4	1348.8	1379.7	1315.7	1280.5	1243.0	1232.0
57.5°	14587.8	11656.5	3290.5	1276.1	1262.8	1322.4	1390.7	1337.8	1295.9	1258.4	1245.2
60°	15586.1	12167.9	2768.1	1187.9	1210.0	1289.3	1362.0	1304.7	1251.8	1236.4	1229.8
62.5°	15855.0	12106.1	2148.8	1097.6	1146.0	1216.6	1287.1	1249.6	1194.5	1218.8	1221.0
65°	15226.9	11445.0	1613.3	1009.4	1062.3	1121.8	1210.0	1194.5	1174.7	1240.8	1243.0
67.5°	13448.3	9820.7	1229.8	932.3	976.3	1049.1	1185.7	1249.6	1254.0	1337.8	1329.0
70°	10175.5	7336.9	963.1	859.5	910.2	1049.1	1262.8	1291.5	1238.6	1315.7	1298.1
72.5°	7034.9	4842.0	819.9	795.6	828.7	1000.6	1260.6	1260.6	1203.3	1203.3	1170.3
75°	4370.4	2847.5	714.1	714.1	714.1	875.0	1225.4	1161.5	1060.1	1013.8	987.4
77.5°	2157.6	1384.1	599.5	621.5	597.3	731.7	1000.6	949.9	888.2	839.7	822.1
80°	921.2	692.0	484.9	509.1	480.5	551.0	793.4	782.4	722.9	659.0	639.1
82.5°	423.2	357.0	387.9	398.9	350.4	414.3	579.6	579.6	546.6	458.4	425.4
85°	180.7	189.5	268.9	268.9	220.4	233.6	310.8	295.3	264.5	216.0	198.4
87.5°	61.7	92.6	136.6	119.0	46.3	19.8	11.0	4.4	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)