

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: P641037

Luminaire Tested: GWS-SA5F-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641037
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-SA5F-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30480.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

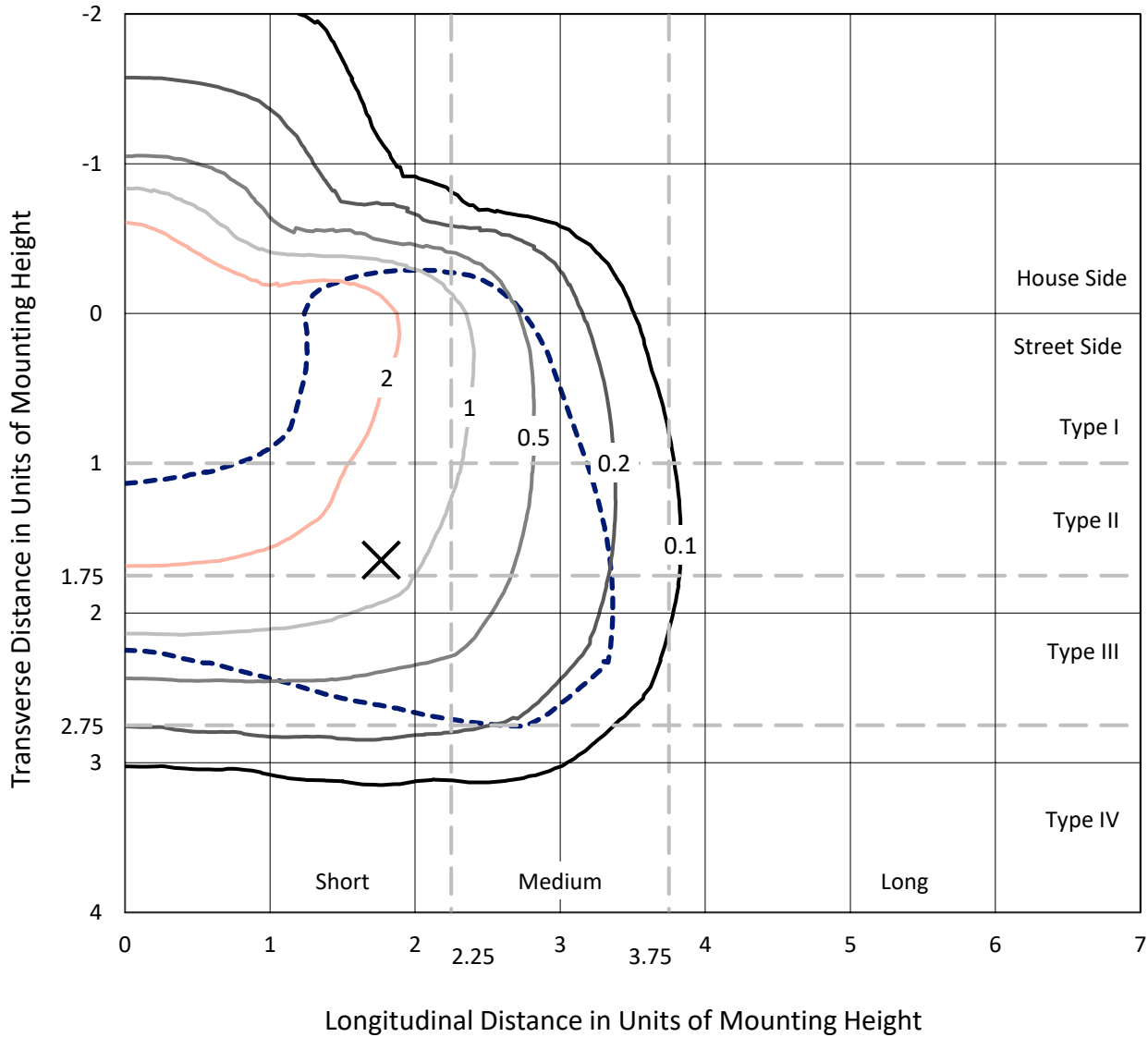
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

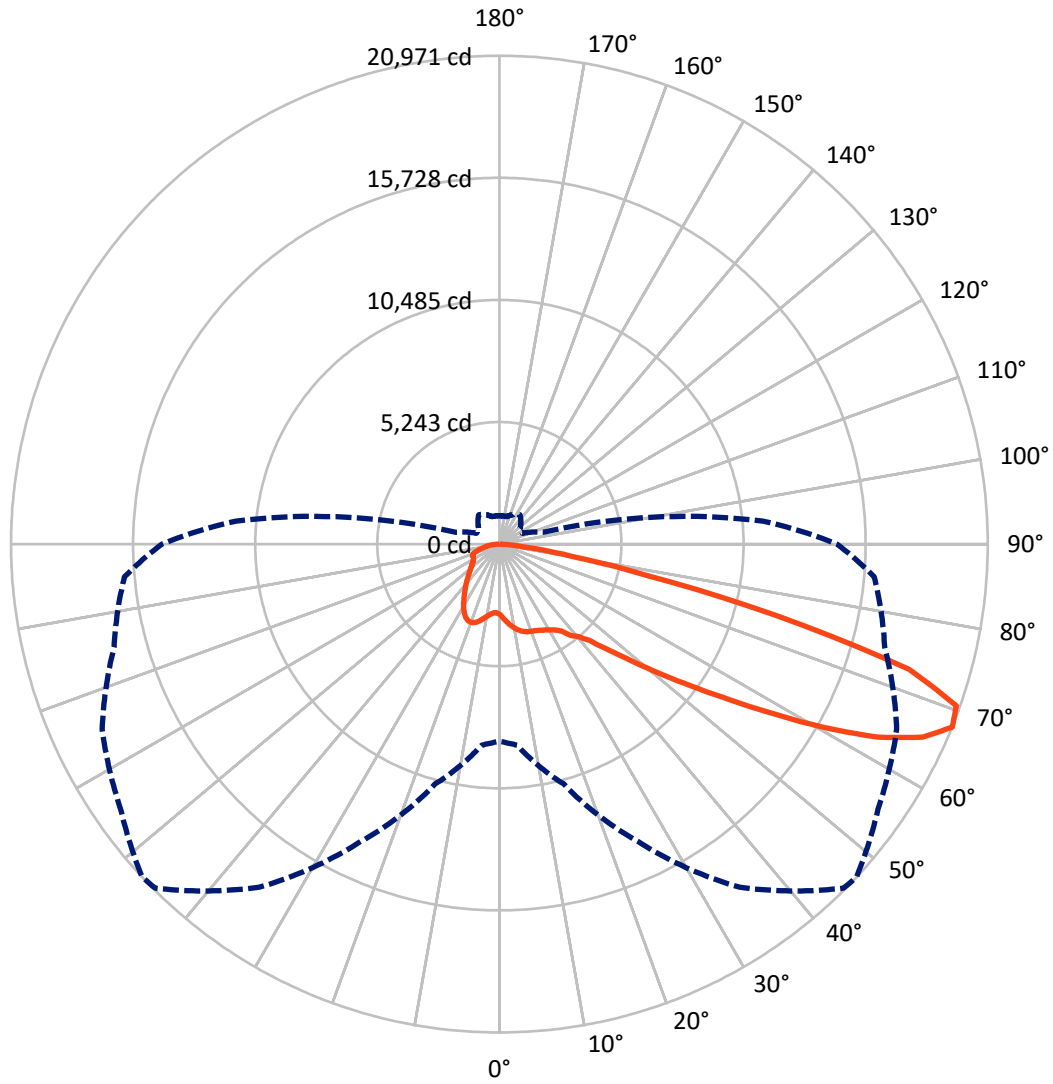
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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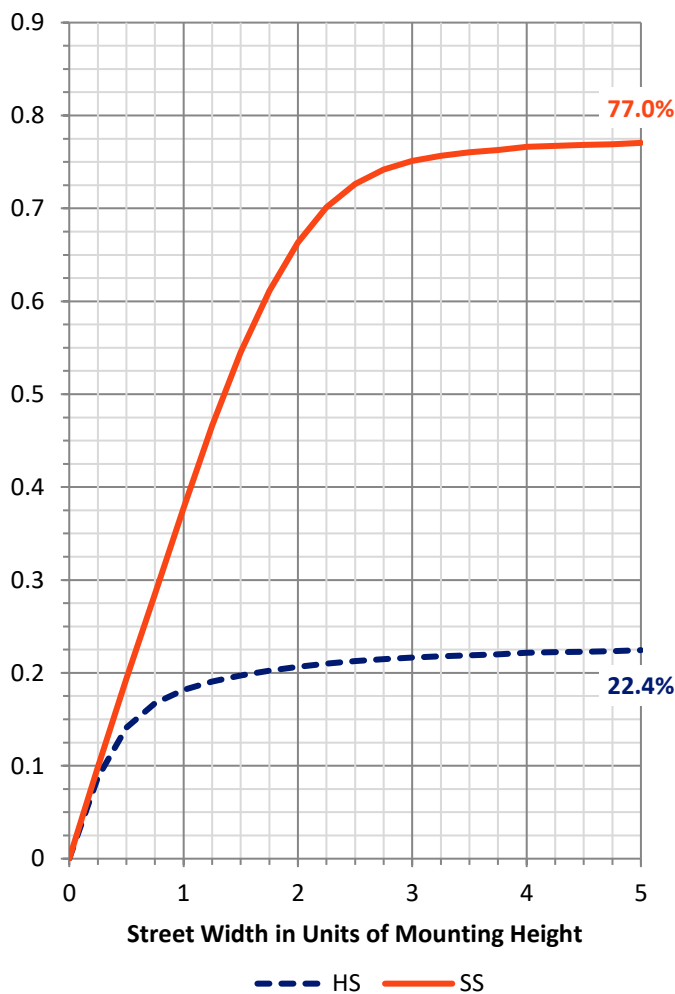
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6946.8	0.0	6946.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	23534.1	0.0	23534.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	30480.9	0.0	30480.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.8	1.0
10°-20°	1028.8	3.4
20°-30°	1748.8	5.7
30°-40°	2561.8	8.4
40°-50°	3903.2	12.8
50°-60°	6983.6	22.9
60°-70°	9318.9	30.6
70°-80°	4214.2	13.8
80°-90°	412.9	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°	30480.9	100.0
0°-180°	30480.9	100.0

Coefficient of Utilization



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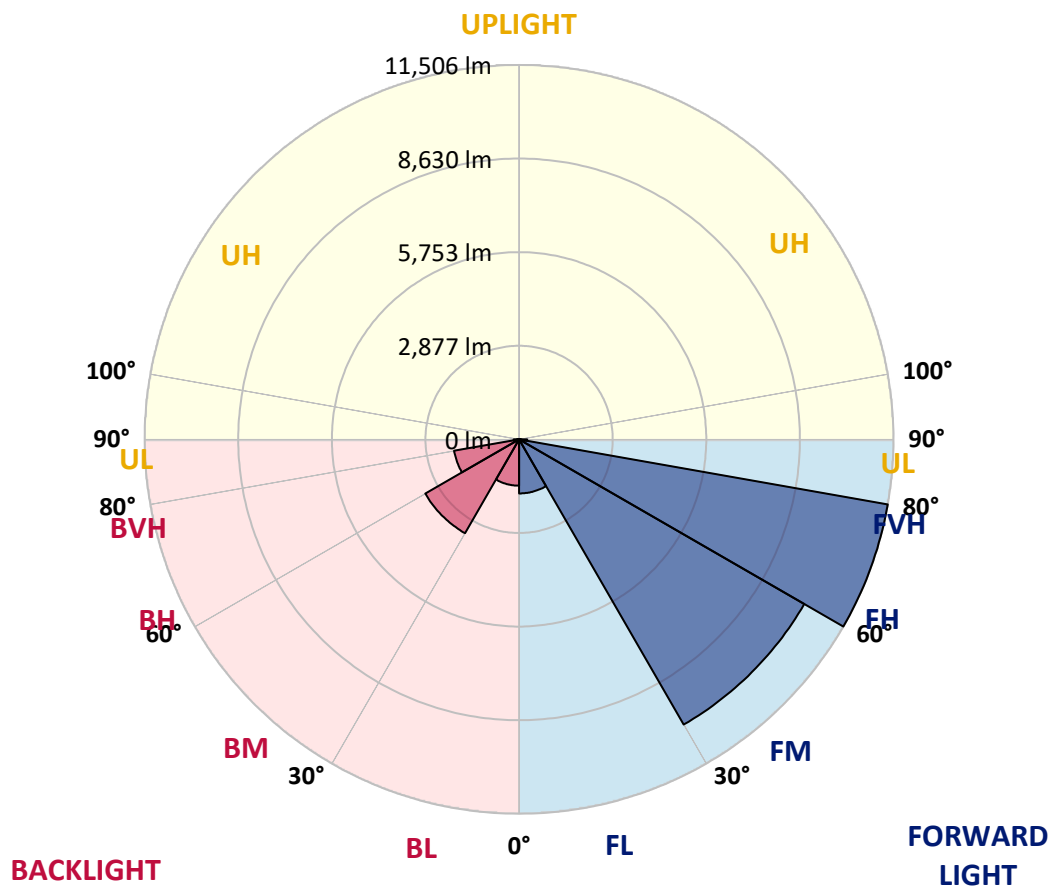
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.3	5.5			
FM (30°-60°)	10120.0	33.2			
FH (60°-80°)	11506.2	37.7			G4/12000
FVH (80°-90°)	245.6	0.8			G3/500
BL (0°-30°)	1424.1	4.7	B3/2500		
BM (30°-60°)	3328.6	10.9	B3/5000		
BH (60°-80°)	2026.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	167.3	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°	47°	55°	65°	75°	85°
0°	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6
2.5°	3222.2	3233.2	3231.0	3213.4	3202.3	3182.5	3184.7	3153.9	3107.6	3076.7	3041.5
5°	3506.5	3524.1	3502.1	3473.4	3429.4	3365.4	3358.8	3288.3	3200.1	3138.4	3074.5
7.5°	3753.3	3764.4	3737.9	3689.4	3625.5	3539.6	3524.1	3440.4	3330.2	3233.2	3140.6
10°	3945.1	3958.3	3923.0	3859.1	3775.4	3689.4	3678.4	3592.4	3475.6	3361.0	3244.2
12.5°	4108.2	4112.6	4075.1	3989.2	3898.8	3810.6	3799.6	3720.3	3612.3	3495.5	3367.6
15°	4202.9	4205.1	4158.9	4064.1	3978.1	3901.0	3894.4	3826.1	3726.9	3616.7	3480.0
17.5°	4196.3	4200.7	4167.7	4083.9	4009.0	3962.7	3956.1	3912.0	3834.9	3735.7	3599.1
20°	4114.8	4119.2	4097.2	4042.1	4002.4	3989.2	3991.4	3978.1	3931.9	3850.3	3711.5
22.5°	4050.9	4057.5	4037.6	3998.0	3993.6	4024.4	4031.0	4037.6	4015.6	3942.9	3808.4
25°	4081.7	4092.7	4061.9	4006.8	4015.6	4083.9	4097.2	4119.2	4101.6	4039.8	3923.0
27.5°	4295.5	4302.1	4222.8	4110.4	4083.9	4156.7	4176.5	4211.8	4198.5	4141.2	4050.9
30°	4791.4	4787.0	4617.3	4341.8	4231.6	4260.2	4275.7	4326.4	4330.8	4293.3	4207.3
32.5°	5490.1	5468.0	5205.7	4767.2	4447.6	4377.1	4394.7	4463.0	4513.7	4474.0	4357.2
35°	6228.4	6208.5	5919.8	5406.3	4846.5	4601.9	4582.0	4634.9	4712.1	4601.9	4434.4
37.5°	6931.4	6900.6	6605.3	5970.5	5338.0	4996.4	4967.7	4914.8	4868.5	4657.0	4529.1
40°	7711.6	7676.4	7418.5	6700.0	5880.2	5298.3	5225.6	5016.2	4974.3	4839.9	4776.0
42.5°	8544.7	8544.7	8330.9	7623.5	6534.7	5730.3	5635.5	5320.3	5364.4	5276.3	5201.3
45°	9377.8	9402.1	9232.4	8553.5	7409.7	6545.7	6393.7	5946.3	6052.1	6012.4	5974.9
47.5°	10087.5	10133.8	10100.7	9503.5	8480.8	7537.5	7306.1	6841.1	7068.1	7162.9	7268.6
50°	10852.3	10903.0	10869.9	10634.1	9734.9	8738.7	8531.5	8051.0	8441.1	8725.5	9071.5
52.5°	11987.3	12060.0	11784.5	11694.2	11257.8	10102.9	9917.8	9371.2	10078.7	10550.3	11321.7
55°	12946.0	12943.8	12846.9	13054.0	12893.1	11771.3	11566.4	11070.5	11974.1	12474.4	13602.8
57.5°	13391.2	13444.1	13776.9	14363.2	14684.9	13810.0	13613.8	13106.9	14008.3	14268.4	15487.2
60°	13620.4	13686.6	14330.1	15489.4	16355.5	16036.0	15958.8	15313.1	15820.0	15789.1	17076.2
62.5°	13298.7	13430.9	14464.6	16005.1	17547.9	18273.0	18248.7	17272.4	17360.6	17058.6	18061.4
65°	11822.0	11965.3	13587.4	15747.3	18228.9	19974.4	19981.1	19046.6	18544.1	17675.7	17896.1
67.5°	8454.4	8659.3	10664.9	14089.9	17988.7	20893.5	20970.6	19851.0	18821.8	17129.1	16159.4
70°	4608.5	4758.3	6329.8	10241.8	15824.4	20673.1	20816.4	19463.1	17596.4	14817.2	12439.1
72.5°	2093.8	2142.2	2944.5	5620.1	10810.4	17794.7	18394.2	17369.4	14451.3	10944.8	7910.0
75°	958.7	980.8	1282.7	2688.8	5648.7	11908.0	12328.9	12937.2	10056.6	6911.6	4123.6
77.5°	601.7	608.3	729.5	1229.8	2816.7	5944.1	6387.1	7702.8	5889.0	3420.5	1723.5
80°	354.8	361.4	454.0	665.6	1322.4	2719.7	3140.6	3045.9	2768.2	1476.6	784.6
82.5°	178.5	185.1	262.3	379.1	720.7	1082.1	1273.9	1280.5	1031.5	800.0	443.0
85°	63.9	66.1	86.0	149.9	306.3	357.0	398.9	487.1	504.7	465.0	213.8
87.5°	0.0	0.0	2.2	4.4	8.8	35.3	37.5	70.5	147.7	165.3	86.0
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°	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6	3021.6
2.5°	3030.4	2997.4	2986.4	2975.3	2957.7	2951.1	2937.9	2924.6	2924.6	2911.4	2904.8
5°	3045.9	3001.8	2973.1	2959.9	2948.9	2955.5	2955.5	2959.9	2975.3	2966.5	2970.9
7.5°	3101.0	3050.3	3010.6	2999.6	2999.6	3026.0	3043.7	3065.7	3094.4	3098.8	3098.8
10°	3197.9	3138.4	3096.6	3089.9	3101.0	3138.4	3164.9	3191.3	3226.6	3228.8	3233.2
12.5°	3303.7	3244.2	3202.3	3211.2	3222.2	3270.7	3299.3	3321.4	3356.6	3356.6	3354.4
15°	3413.9	3347.8	3312.5	3330.2	3363.2	3418.3	3422.7	3424.9	3442.6	3438.2	3436.0
17.5°	3528.5	3458.0	3431.6	3458.0	3493.3	3519.7	3497.7	3466.8	3460.2	3451.4	3447.0
20°	3640.9	3568.2	3557.2	3577.0	3588.0	3566.0	3497.7	3440.4	3413.9	3400.7	3396.3
22.5°	3737.9	3676.2	3669.6	3669.6	3614.5	3537.3	3436.0	3358.8	3323.6	3305.9	3301.5
25°	3852.5	3795.2	3784.2	3724.7	3583.6	3442.6	3305.9	3235.4	3206.8	3197.9	3200.1
27.5°	3987.0	3947.3	3912.0	3742.3	3495.5	3275.1	3120.8	3089.9	3078.9	3089.9	3096.6
30°	4152.3	4112.6	4033.2	3720.3	3354.4	3056.9	2909.2	2907.0	2940.1	2968.7	2973.1
32.5°	4286.7	4269.1	4139.0	3649.7	3156.1	2816.7	2691.0	2699.8	2759.4	2799.0	2805.6
35°	4392.5	4421.1	4227.2	3532.9	2920.2	2589.6	2490.5	2494.9	2527.9	2583.0	2585.2
37.5°	4542.4	4639.3	4306.5	3354.4	2649.2	2393.5	2303.1	2270.1	2265.7	2281.1	2285.5
40°	4844.3	4989.8	4363.8	3094.4	2386.9	2217.2	2115.8	2051.9	1996.8	1954.9	1941.7
42.5°	5300.5	5468.0	4396.9	2779.2	2153.3	2043.1	1928.5	1846.9	1749.9	1661.8	1630.9
45°	6138.0	6193.1	4396.9	2444.2	1946.1	1880.0	1765.4	1668.4	1545.0	1441.4	1419.3
47.5°	7478.0	7301.7	4401.3	2120.2	1763.2	1736.7	1637.5	1527.3	1390.7	1304.7	1291.5
50°	9496.8	8877.5	4491.7	1851.3	1611.1	1615.5	1542.8	1421.6	1298.1	1234.2	1223.2
52.5°	11784.5	10819.2	4734.1	1653.0	1483.3	1516.3	1476.6	1359.8	1249.6	1194.5	1183.5
55°	13935.6	12604.4	4941.3	1511.9	1375.3	1432.6	1430.4	1322.4	1223.2	1168.1	1161.5
57.5°	15764.9	13827.6	4910.4	1397.3	1282.7	1355.4	1388.5	1298.1	1205.6	1159.3	1152.7
60°	16902.1	14475.6	4471.8	1291.5	1212.2	1300.3	1364.2	1291.5	1214.4	1203.4	1205.6
62.5°	17395.8	14356.6	3629.9	1212.2	1165.9	1273.9	1390.7	1337.8	1295.9	1322.4	1337.8
65°	16628.8	13333.9	2671.2	1152.7	1121.8	1280.5	1452.4	1410.5	1295.9	1313.6	1320.2
67.5°	14499.8	11350.4	1930.7	1093.2	1066.7	1300.3	1540.6	1399.5	1221.0	1221.0	1207.8
70°	10448.9	8163.4	1401.7	1033.7	1011.6	1271.7	1545.0	1324.6	1135.0	1128.4	1095.4
72.5°	6287.9	4815.6	1093.2	967.5	927.9	1128.4	1448.0	1236.4	1051.3	996.2	956.5
75°	3266.3	2413.3	916.8	894.8	795.6	956.5	1324.6	1099.8	899.2	850.7	828.7
77.5°	1399.5	1128.4	786.8	797.8	661.2	804.4	1068.9	952.1	797.8	736.1	716.3
80°	689.8	641.4	621.5	639.1	528.9	621.5	921.3	833.1	676.6	606.1	577.4
82.5°	394.5	374.7	447.4	454.0	376.9	520.1	778.0	705.3	559.8	482.7	436.4
85°	182.9	196.2	271.1	273.3	233.6	357.0	509.1	396.7	297.5	246.8	235.8
87.5°	72.7	86.0	119.0	116.8	68.3	66.1	44.1	24.2	19.8	17.6	15.4
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)