

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: P638827

Luminaire Tested: GWS-SA4F-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29705.7 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

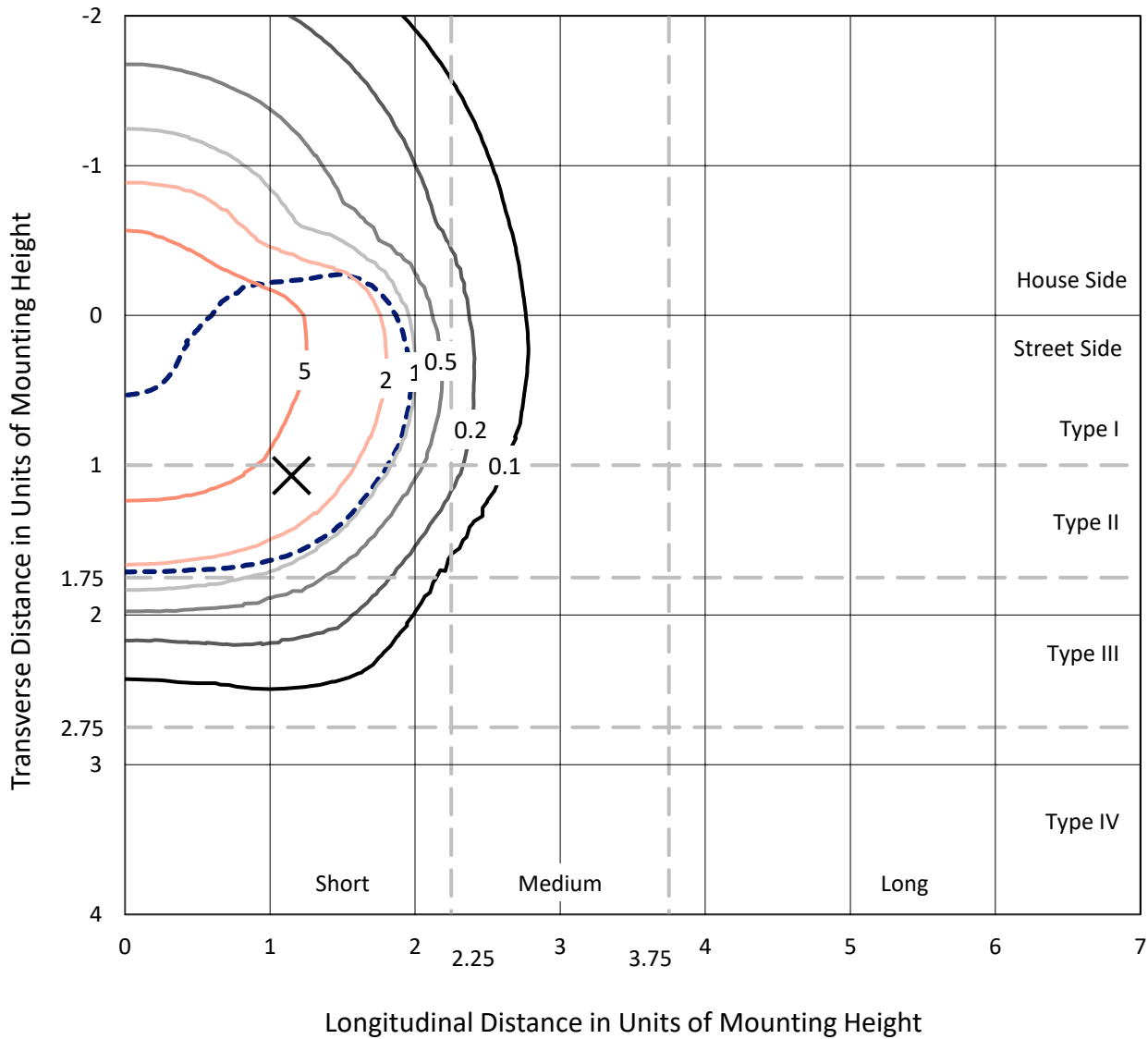
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

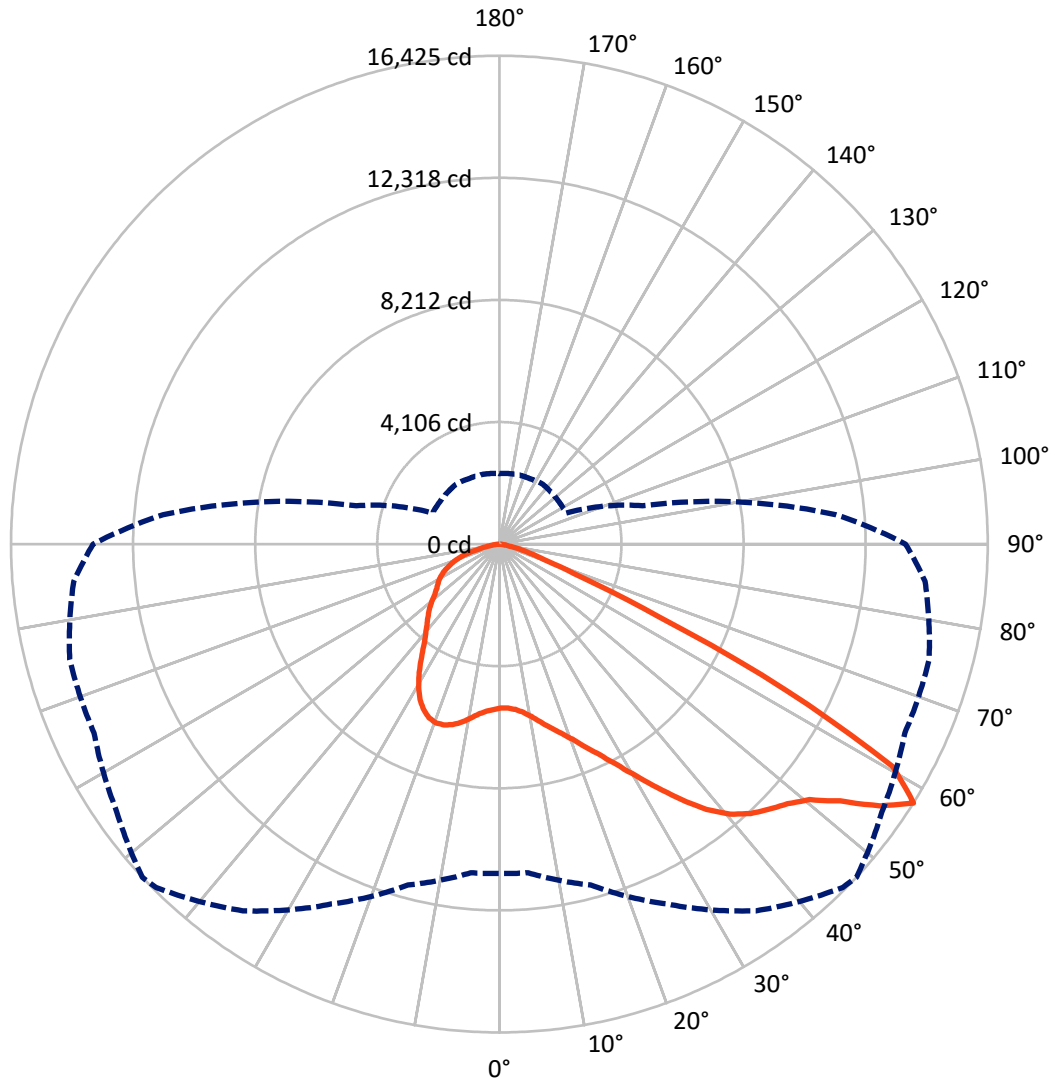
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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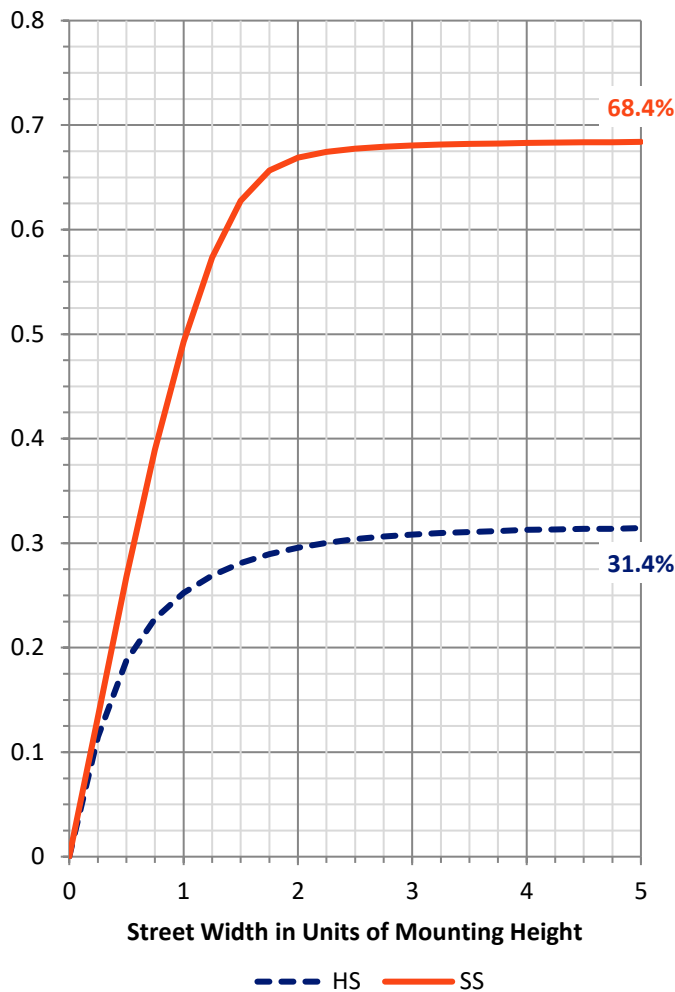
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9401.8	0.0	9401.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20303.9	0.0	20303.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	29705.7	0.0	29705.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.4	1.8
10°-20°	1787.1	6.0
20°-30°	3217.9	10.8
30°-40°	4860.3	16.4
40°-50°	6545.0	22.0
50°-60°	7864.7	26.5
60°-70°	3830.3	12.9
70°-80°	943.6	3.2
80°-90°	113.4	0.4
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°	29705.7	100.0
0°-180°	29705.7	100.0

Coefficient of Utilization



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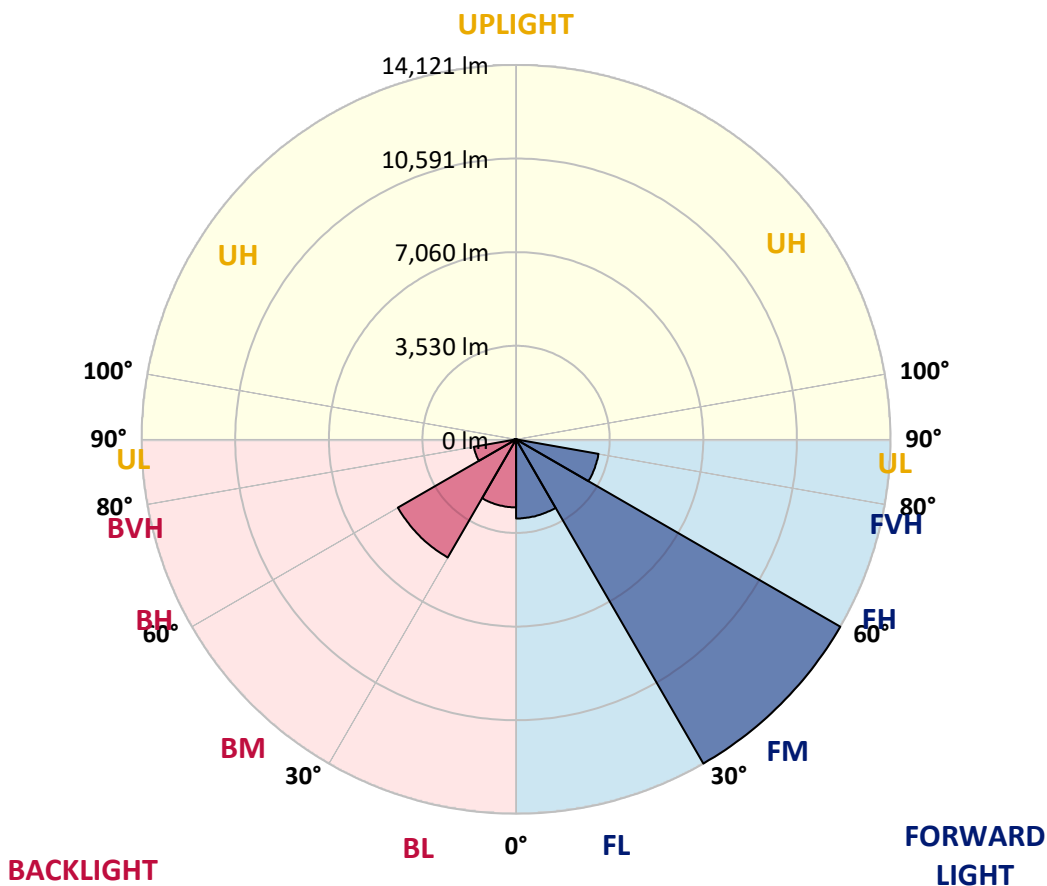
CATALOG NUMBER: GWS-SA4F-750-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2983.8	10.0			
FM (30°-60°)	14120.7	47.5			
FH (60°-80°)	3156.8	10.6			G2/5000
FVH (80°-90°)	42.6	0.1			G1/100
BL (0°-30°)	2564.6	8.6	B4/5000		
BM (30°-60°)	5149.3	17.3	B4/8500		
BH (60°-80°)	1617.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	70.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0
2.5°	5499.0	5496.5	5496.5	5511.5	5511.5	5516.4	5523.9	5531.4	5533.9	5521.4	5494.0
5°	5558.9	5558.9	5558.9	5571.3	5571.3	5576.3	5586.3	5588.8	5586.3	5566.4	5538.9
7.5°	5653.7	5653.7	5656.2	5671.1	5683.6	5691.1	5708.6	5706.1	5698.6	5666.2	5631.2
10°	5808.4	5815.9	5823.3	5840.8	5865.8	5883.2	5895.7	5895.7	5885.7	5835.8	5790.9
12.5°	6027.9	6037.9	6045.4	6060.4	6080.3	6110.3	6137.7	6137.7	6125.2	6062.9	5995.5
15°	6284.9	6294.9	6292.4	6297.4	6334.8	6377.2	6399.7	6414.7	6419.6	6332.3	6227.5
17.5°	6579.3	6589.3	6579.3	6564.4	6569.3	6636.7	6676.6	6731.5	6764.0	6646.7	6479.5
20°	6846.3	6836.3	6836.3	6846.3	6861.3	6943.6	7003.5	7093.3	7133.2	6991.0	6731.5
22.5°	7128.2	7150.7	7140.7	7140.7	7200.6	7337.8	7410.2	7527.4	7569.8	7385.2	7035.9
25°	7492.5	7512.5	7507.5	7512.5	7582.3	7776.9	7849.3	8066.3	8108.8	7844.3	7372.7
27.5°	7891.7	7924.1	7939.1	7934.1	8046.4	8300.9	8390.7	8692.6	8769.9	8358.3	7732.0
30°	8410.7	8445.6	8458.1	8453.1	8585.3	8932.1	9034.4	9378.7	9488.5	8967.0	8188.6
32.5°	9011.9	9046.9	9084.3	9099.3	9268.9	9623.2	9770.4	10127.2	10284.4	9670.6	8740.0
35°	9608.3	9638.2	9710.5	9827.8	10059.8	10421.6	10551.4	10903.2	11055.4	10401.7	9406.2
37.5°	10266.9	10286.9	10349.3	10511.4	10845.8	11190.1	11319.8	11656.7	11674.1	11107.7	10159.6
40°	10988.0	10988.0	10975.5	11135.2	11484.5	11831.3	11943.6	12138.2	12035.9	11651.7	10893.2
42.5°	11599.3	11589.3	11599.3	11749.0	12008.4	12290.4	12387.7	12350.3	12220.5	12068.3	11556.9
45°	12150.7	12158.1	12248.0	12362.7	12497.5	12664.6	12722.0	12509.9	12392.7	12402.7	12088.3
47.5°	12524.9	12532.4	12742.0	12934.1	13016.4	13068.8	13043.9	12749.5	12689.6	12801.9	12497.5
50°	12574.8	12614.7	12976.5	13370.7	13575.3	13582.8	13512.9	13153.7	13136.2	13263.4	12717.0
52.5°	12584.8	12624.7	13076.3	13787.4	14318.8	14431.1	14351.3	13977.0	13794.9	13667.6	12986.5
55°	12547.4	12592.3	13091.3	14066.8	15084.8	15533.9	15541.4	15012.4	14431.1	14346.3	13754.9
57.5°	11077.8	11095.3	11868.7	13355.7	15054.8	16327.3	16424.6	15706.0	15042.4	14962.5	14371.2
60°	7717.0	7786.9	8627.7	10591.3	12647.2	14890.2	15204.5	14995.0	14550.9	13969.5	12330.3
62.5°	3864.8	3924.6	4767.9	6624.2	8722.5	10494.0	10830.8	11052.9	11157.7	10533.9	8395.7
65°	1664.2	1709.1	2233.0	3460.6	4937.6	5793.4	5910.7	6177.6	6831.3	6095.3	4523.4
67.5°	1112.8	1142.7	1409.7	2110.8	2909.2	2964.1	2946.6	3004.0	3146.2	2597.3	2043.4
70°	853.3	878.2	1057.9	1546.9	2090.8	1788.9	1694.1	1536.9	1669.2	1701.6	1656.7
72.5°	618.8	638.7	773.5	1055.4	1309.9	1142.7	1127.7	1207.6	1387.2	1437.1	1409.7
75°	399.2	409.2	491.5	578.8	676.1	733.5	763.5	908.2	1090.3	1127.7	1095.3
77.5°	267.0	274.5	321.9	371.8	384.2	386.7	396.7	461.6	586.3	656.2	648.7
80°	139.7	139.7	157.2	157.2	179.6	214.6	224.6	267.0	324.4	359.3	361.8
82.5°	54.9	57.4	67.4	74.9	89.8	109.8	117.3	139.7	169.7	194.6	217.1
85°	22.5	25.0	27.4	32.4	39.9	49.9	52.4	59.9	79.8	99.8	112.3
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	7.5	10.0	12.5	22.5	29.9
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°	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0
2.5°	5526.4	5494.0	5526.4	5536.4	5563.9	5573.8	5556.4	5553.9	5553.9	5528.9	5521.4
5°	5563.9	5533.9	5566.4	5581.3	5621.2	5646.2	5651.2	5671.1	5683.6	5673.6	5671.1
7.5°	5656.2	5618.7	5653.7	5676.1	5728.5	5768.4	5785.9	5830.8	5863.3	5858.3	5855.8
10°	5818.3	5768.4	5808.4	5845.8	5903.2	5950.6	5953.1	5978.0	6010.5	6000.5	5995.5
12.5°	6005.5	5958.1	6003.0	6040.4	6107.8	6127.7	6095.3	6085.3	6090.3	6077.8	6067.8
15°	6235.0	6167.6	6207.6	6250.0	6287.4	6265.0	6195.1	6167.6	6165.2	6147.7	6137.7
17.5°	6464.6	6379.7	6409.7	6432.1	6414.7	6344.8	6257.5	6210.1	6187.6	6152.7	6142.7
20°	6691.6	6584.3	6579.3	6561.9	6482.0	6354.8	6237.5	6142.7	6085.3	6037.9	6020.4
22.5°	6951.1	6801.4	6726.5	6646.7	6472.0	6265.0	6087.8	5953.1	5860.8	5800.9	5780.9
25°	7230.5	7018.4	6863.8	6704.1	6372.2	6072.8	5825.8	5641.2	5531.4	5466.5	5444.1
27.5°	7507.5	7215.5	6983.5	6711.6	6172.6	5795.9	5464.1	5214.6	5104.8	5052.4	5034.9
30°	7881.7	7477.5	7125.7	6614.3	5910.7	5411.7	4997.5	4745.5	4673.1	4635.7	4620.7
32.5°	8313.3	7809.4	7315.3	6409.7	5576.3	4962.6	4525.9	4351.3	4301.4	4229.0	4226.5
35°	8882.2	8283.4	7495.0	6107.8	5154.7	4481.0	4164.2	4039.4	3949.6	3834.8	3824.8
37.5°	9545.9	8874.7	7592.3	5723.5	4663.2	4084.3	3894.7	3755.0	3610.3	3458.1	3438.1
40°	10232.0	9565.8	7599.8	5269.4	4181.6	3822.3	3662.7	3480.5	3300.9	3131.2	3108.8
42.5°	10953.1	10209.5	7467.5	4745.5	3787.4	3595.3	3433.1	3203.6	3001.5	2886.7	2874.2
45°	11596.8	10728.5	7168.1	4194.1	3495.5	3405.7	3198.6	2951.6	2844.3	2762.0	2744.5
47.5°	12103.3	11072.8	6764.0	3700.1	3258.5	3211.1	2941.6	2814.4	2732.0	2657.2	2639.7
50°	12352.8	11150.2	6237.5	3298.4	3038.9	2981.5	2796.9	2699.6	2644.7	2584.8	2569.9
52.5°	12662.1	11237.5	5783.4	2961.6	2824.3	2747.0	2677.1	2599.8	2559.9	2522.4	2510.0
55°	13373.2	11566.8	5543.9	2692.1	2619.8	2584.8	2574.8	2510.0	2497.5	2472.5	2450.1
57.5°	13662.6	11354.8	4977.5	2472.5	2457.6	2462.6	2487.5	2427.6	2415.2	2385.2	2370.3
60°	10988.0	8582.8	3370.7	2282.9	2322.8	2355.3	2380.2	2320.4	2302.9	2297.9	2277.9
62.5°	7040.9	5279.4	2352.8	2105.8	2165.7	2205.6	2220.6	2163.2	2150.7	2190.6	2193.1
65°	3665.2	2876.7	1908.7	1916.2	1966.1	2025.9	2055.9	2035.9	2030.9	2073.3	2075.8
67.5°	1871.3	1759.0	1664.2	1691.6	1731.5	1808.9	1878.7	1966.1	1996.0	2001.0	2003.5
70°	1594.3	1544.4	1497.0	1514.5	1556.9	1599.3	1666.7	1709.1	1659.2	1646.7	1641.7
72.5°	1357.3	1319.9	1297.4	1317.4	1339.8	1332.3	1312.4	1332.3	1339.8	1342.3	1344.8
75°	1055.4	1027.9	1010.5	1013.0	1013.0	985.5	948.1	925.6	900.7	880.7	880.7
77.5°	646.2	651.2	668.7	666.2	663.7	653.7	616.3	596.3	536.4	519.0	519.0
80°	369.3	376.7	394.2	399.2	399.2	386.7	349.3	326.8	299.4	286.9	284.4
82.5°	224.6	234.5	244.5	249.5	252.0	237.0	204.6	187.1	172.2	159.7	159.7
85°	117.3	122.3	132.2	134.7	127.2	112.3	94.8	87.3	72.4	69.9	69.9
87.5°	32.4	34.9	39.9	32.4	29.9	22.5	12.5	10.0	5.0	2.5	2.5
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)