

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: P638874

Luminaire Tested: GWS-SA4F-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28619.4 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

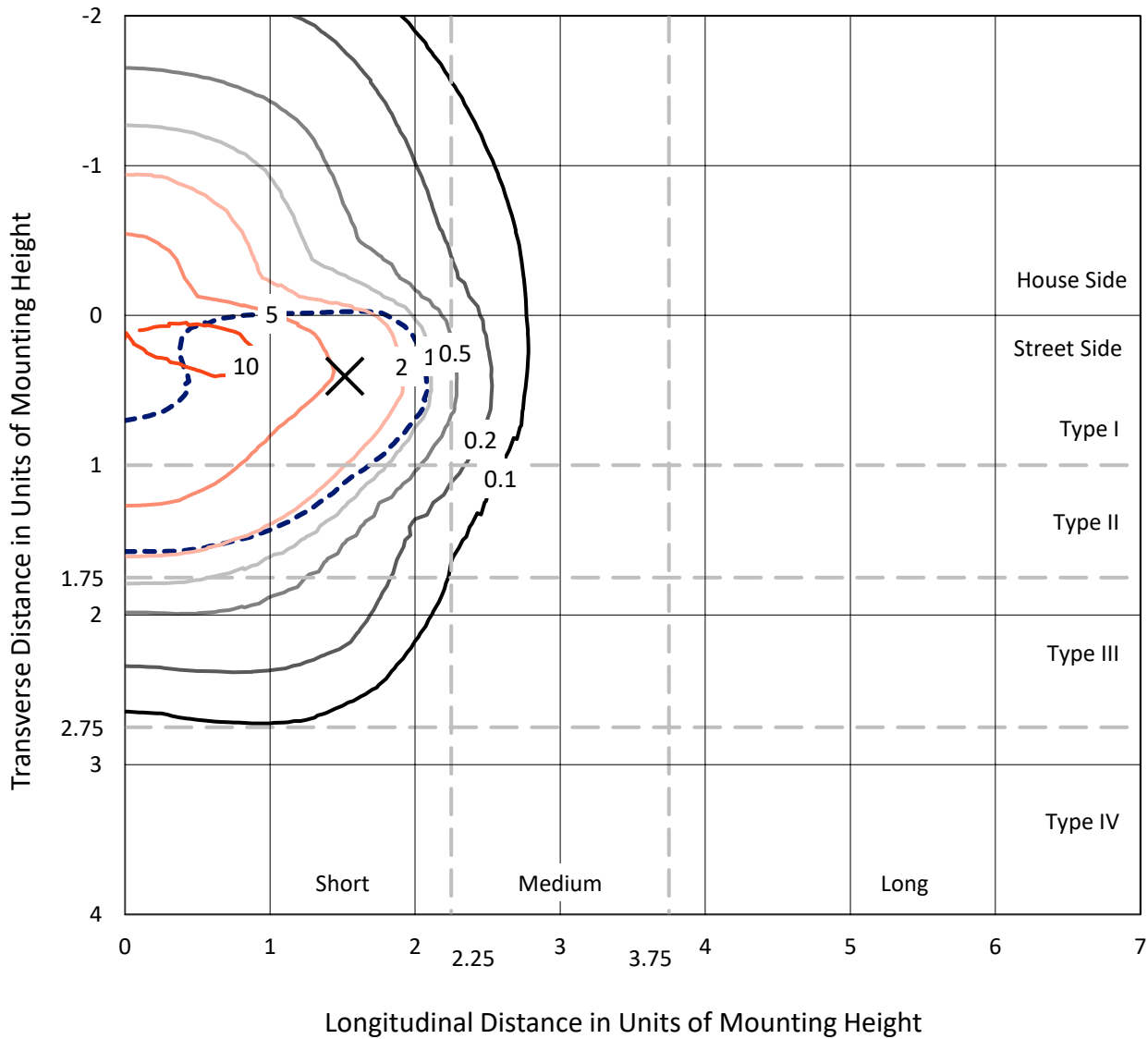
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

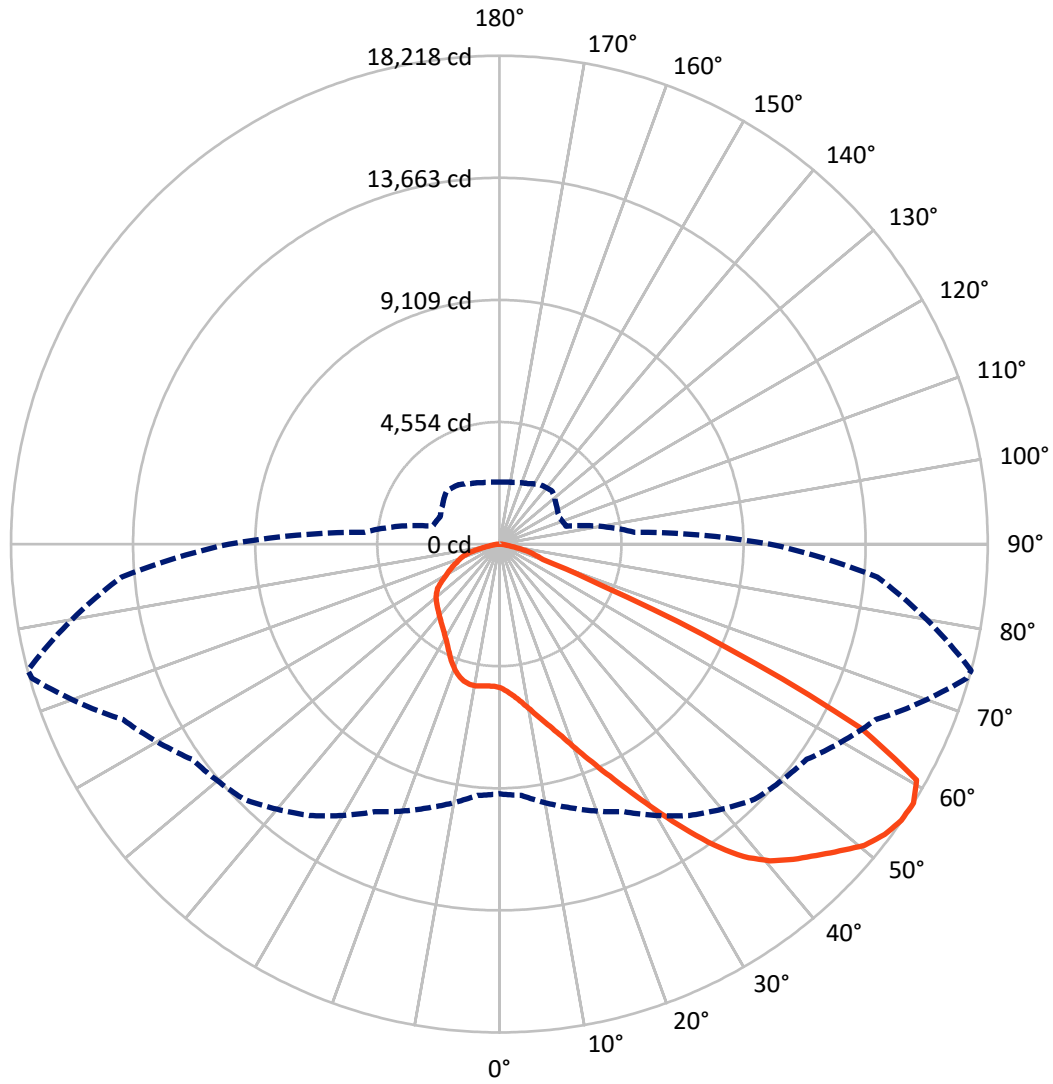
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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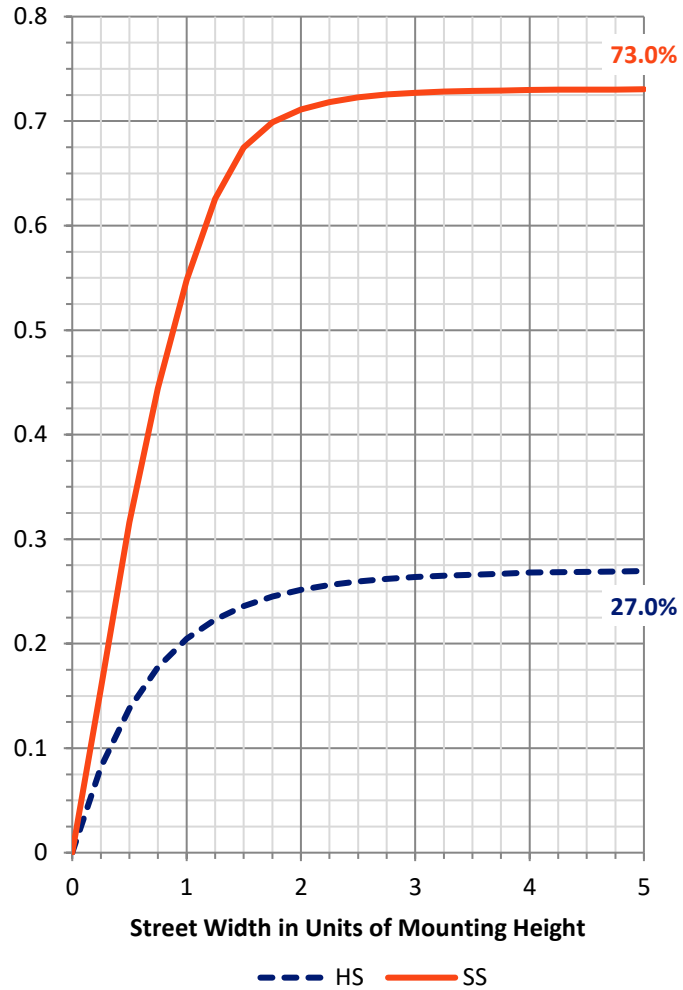
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7742.1	0.0	7742.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	20877.3	0.0	20877.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	28619.4	0.0	28619.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.3	1.9
10°-20°	1707.6	6.0
20°-30°	3028.4	10.6
30°-40°	4636.0	16.2
40°-50°	6455.2	22.6
50°-60°	7396.4	25.8
60°-70°	3800.4	13.3
70°-80°	956.8	3.3
80°-90°	102.3	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°	28619.4	100.0
0°-180°	28619.4	100.0

Coefficient of Utilization



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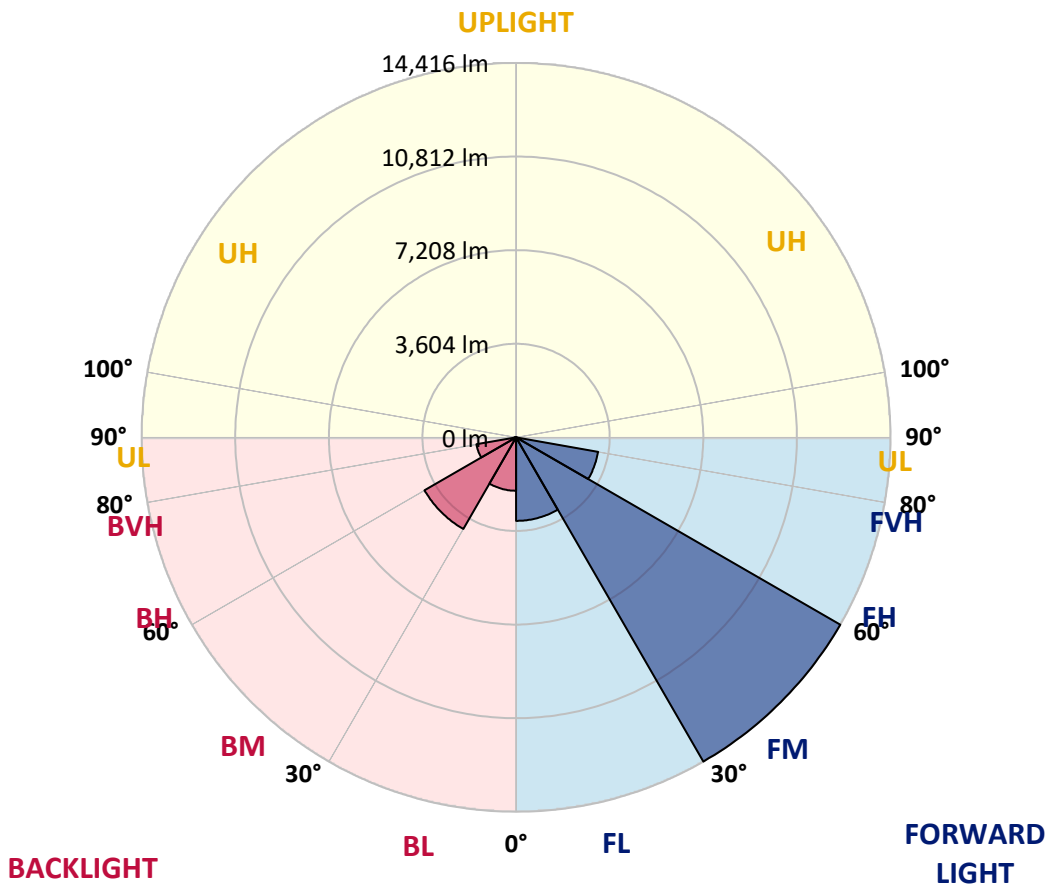
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3215.6	11.2			
FM (30°-60°)	14415.9	50.4			
FH (60°-80°)	3207.9	11.2			G2/5000
FVH (80°-90°)	37.8	0.1			G1/100
BL (0°-30°)	2056.8	7.2	B3/2500		
BM (30°-60°)	4071.7	14.2	B3/5000		
BH (60°-80°)	1549.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	64.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7
2.5°	5758.4	5773.1	5758.4	5783.0	5733.8	5711.6	5657.5	5576.3	5512.3	5502.5	5431.1
5°	6206.3	6238.2	6218.6	6208.7	6142.3	6093.1	6011.9	5849.4	5716.5	5696.9	5556.6
7.5°	6494.2	6516.3	6516.3	6523.7	6499.1	6442.5	6356.4	6164.4	5977.4	5947.9	5736.2
10°	6590.2	6607.4	6639.4	6700.9	6750.1	6767.3	6710.7	6526.2	6297.3	6267.8	5972.5
12.5°	6612.3	6632.0	6681.2	6794.4	6929.7	7052.8	7062.6	6927.3	6671.4	6639.4	6245.6
15°	6654.1	6673.8	6740.3	6880.5	7079.9	7316.1	7461.3	7367.8	7084.8	7050.3	6555.7
17.5°	6649.2	6671.4	6769.8	6956.8	7225.0	7567.1	7847.6	7887.0	7594.2	7535.1	6907.6
20°	6636.9	6656.6	6762.4	6991.3	7323.5	7793.5	8300.4	8504.7	8189.7	8135.6	7318.6
22.5°	6735.3	6757.5	6838.7	7028.2	7375.2	7968.2	8718.8	9211.0	8896.0	8819.7	7791.0
25°	6956.8	6988.8	7038.0	7168.4	7468.7	8123.3	9147.0	10010.7	9688.4	9597.3	8305.4
27.5°	7298.9	7338.2	7407.2	7468.7	7677.8	8320.1	9572.7	10906.5	10584.1	10488.1	8849.2
30°	7717.2	7768.9	7857.5	7899.3	8042.1	8610.5	10035.3	11829.3	11642.3	11509.4	9462.0
32.5°	8295.5	8366.9	8450.6	8462.9	8549.0	9051.0	10493.1	12744.7	12742.3	12648.8	10158.4
35°	9048.5	9124.8	9142.0	9159.3	9201.1	9656.4	11046.7	13579.0	13901.3	13793.1	10916.3
37.5°	9870.5	9981.2	10008.3	9932.0	9991.0	10384.8	11669.3	14248.3	14910.3	14794.6	11649.7
40°	10749.0	10793.3	10867.1	10746.5	10820.3	11219.0	12279.6	14676.5	15663.3	15540.3	12228.0
42.5°	11379.0	11460.2	11570.9	11526.6	11568.4	11932.7	12707.8	14883.2	16199.8	16076.7	12643.8
45°	12063.1	12087.7	12159.0	12149.2	12173.8	12513.4	13015.4	14974.3	16679.6	16568.9	12998.2
47.5°	12658.6	12695.5	12742.3	12688.1	12634.0	12855.5	13266.4	15053.0	17233.3	17100.4	13369.8
50°	13232.0	13264.0	13320.6	13163.1	12961.3	13017.9	13389.5	15161.3	17752.6	17659.0	13662.6
52.5°	13337.8	13372.2	13638.0	13670.0	13411.6	13212.3	13606.0	15400.0	18057.7	17998.6	13768.4
55°	12006.5	12068.0	12597.1	13204.9	13842.3	13778.3	13953.0	15525.5	18178.3	18193.0	13957.9
57.5°	9319.2	9407.8	10180.5	11014.8	12355.9	13465.8	13997.3	15493.5	18136.4	18217.7	14152.3
60°	6112.7	6164.4	7079.9	8015.0	9405.4	10940.9	12528.2	14917.7	17764.9	17880.5	14103.1
62.5°	3691.3	3750.3	4486.1	5194.8	6014.3	7040.5	8497.3	11989.3	14890.6	15149.0	11295.3
65°	2576.5	2655.3	3300.0	3883.2	4166.2	3954.6	4304.0	6696.0	9277.4	9385.7	6902.7
67.5°	1867.8	1921.9	2451.0	3145.0	3457.5	2793.1	2128.6	2965.3	4040.7	4080.1	2847.2
70°	1223.0	1284.6	1764.4	2394.4	2822.6	2264.0	1592.2	1604.5	1700.4	1720.1	1653.7
72.5°	671.8	708.7	1090.2	1589.7	1668.5	1353.5	1242.7	1333.8	1400.2	1400.2	1417.4
75°	347.0	379.0	445.4	524.2	632.4	740.7	895.7	1031.1	1102.5	1107.4	1100.0
77.5°	177.2	189.5	238.7	258.4	283.0	329.8	428.2	548.8	612.8	637.4	632.4
80°	83.7	88.6	100.9	118.1	145.2	184.6	231.3	275.6	315.0	319.9	347.0
82.5°	44.3	49.2	54.1	64.0	78.7	98.4	135.3	162.4	187.0	191.9	214.1
85°	17.2	19.7	22.1	24.6	34.5	41.8	56.6	76.3	93.5	93.5	110.7
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	9.8	12.3	17.2	17.2	29.5
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°	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7
2.5°	5413.9	5342.5	5310.5	5258.8	5217.0	5170.2	5133.3	5106.3	5089.0	5079.2	5069.3
5°	5502.5	5394.2	5308.0	5204.7	5133.3	5064.4	5007.8	4968.5	4948.8	4934.0	4924.2
7.5°	5640.3	5495.1	5332.7	5172.7	5047.2	4936.5	4865.1	4823.3	4796.2	4786.3	4779.0
10°	5829.7	5628.0	5359.7	5106.3	4919.2	4798.7	4749.4	4729.7	4732.2	4727.3	4724.8
12.5°	6043.8	5768.2	5352.3	4988.1	4781.4	4710.1	4712.5	4744.5	4781.4	4791.3	4793.7
15°	6275.2	5906.0	5281.0	4835.6	4673.2	4680.5	4744.5	4820.8	4889.7	4916.8	4921.7
17.5°	6526.2	6021.7	5150.6	4668.2	4584.6	4663.3	4781.4	4906.9	5007.8	5052.1	5064.4
20°	6806.7	6120.1	4966.0	4503.4	4500.9	4631.3	4803.6	4968.5	5096.4	5155.5	5165.3
22.5°	7104.5	6181.6	4739.6	4350.8	4414.8	4589.5	4786.3	4958.6	5094.0	5153.0	5165.3
25°	7404.7	6201.3	4491.0	4210.5	4326.2	4523.0	4702.7	4840.5	4968.5	5020.1	5030.0
27.5°	7685.2	6144.7	4254.8	4089.9	4245.0	4424.6	4545.2	4619.0	4707.6	4747.0	4754.4
30°	7970.7	6031.5	4055.5	3994.0	4153.9	4289.3	4343.4	4348.3	4382.8	4382.8	4387.7
32.5°	8258.6	5864.2	3880.8	3900.4	4040.7	4129.3	4136.7	4080.1	4038.3	3969.3	3966.9
35°	8590.8	5694.4	3738.0	3794.6	3907.8	3962.0	3939.8	3831.5	3730.6	3617.4	3612.5
37.5°	8898.4	5519.7	3617.4	3686.4	3757.7	3797.1	3745.4	3615.0	3531.3	3415.7	3398.4
40°	9151.9	5362.2	3501.8	3573.2	3607.6	3642.1	3558.4	3452.6	3464.9	3400.9	3398.4
42.5°	9299.5	5209.6	3393.5	3447.6	3469.8	3494.4	3420.6	3341.8	3408.3	3359.1	3361.5
45°	9407.8	5076.7	3295.1	3314.8	3368.9	3405.8	3336.9	3248.3	3263.1	3073.6	3029.3
47.5°	9530.9	5002.9	3201.6	3181.9	3277.8	3341.8	3236.0	3108.1	3019.5	2832.4	2815.2
50°	9661.3	4975.8	3103.1	3049.0	3164.7	3226.2	3103.1	2943.2	2827.5	2726.6	2716.8
52.5°	9705.6	4973.4	2980.1	2889.0	3004.7	3090.8	2987.5	2825.1	2687.2	2588.8	2583.9
55°	9880.3	5044.7	2822.6	2670.0	2778.3	2955.5	2879.2	2645.4	2534.7	2490.4	2485.5
57.5°	10084.6	5057.0	2574.0	2431.3	2581.4	2790.6	2694.6	2492.8	2372.3	2318.1	2313.2
60°	10000.9	4754.4	2308.3	2249.2	2414.1	2635.6	2547.0	2372.3	2232.0	2180.3	2175.4
62.5°	7621.2	3356.6	2113.9	2091.7	2234.4	2411.6	2394.4	2212.3	2079.4	2042.5	2037.6
65°	4584.6	2357.5	1926.8	1924.4	2025.3	2195.1	2217.2	2069.6	1929.3	1877.6	1877.6
67.5°	2266.4	1803.8	1715.2	1702.9	1766.9	1887.5	1981.0	1860.4	1742.3	1693.1	1685.7
70°	1602.0	1589.7	1560.2	1525.7	1538.0	1587.2	1626.6	1525.7	1400.2	1351.0	1341.2
72.5°	1385.5	1387.9	1368.2	1341.2	1331.3	1296.9	1262.4	1188.6	1112.3	1060.6	1065.5
75°	1075.4	1080.3	1092.6	1082.8	1055.7	1018.8	981.9	888.4	826.8	777.6	767.8
77.5°	627.5	652.1	691.5	681.7	686.6	634.9	620.1	529.1	472.5	438.0	430.6
80°	354.4	369.1	386.4	398.7	383.9	361.7	329.8	280.5	263.3	238.7	233.8
82.5°	214.1	228.9	236.2	246.1	241.2	211.6	187.0	155.0	140.3	128.0	125.5
85°	108.3	118.1	125.5	130.4	115.7	96.0	86.1	68.9	59.1	51.7	51.7
87.5°	27.1	29.5	34.5	29.5	27.1	12.3	9.8	2.5	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)