

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: P643439

Luminaire Tested: GWS-SA6E-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643439
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-SAGE-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29647.5 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

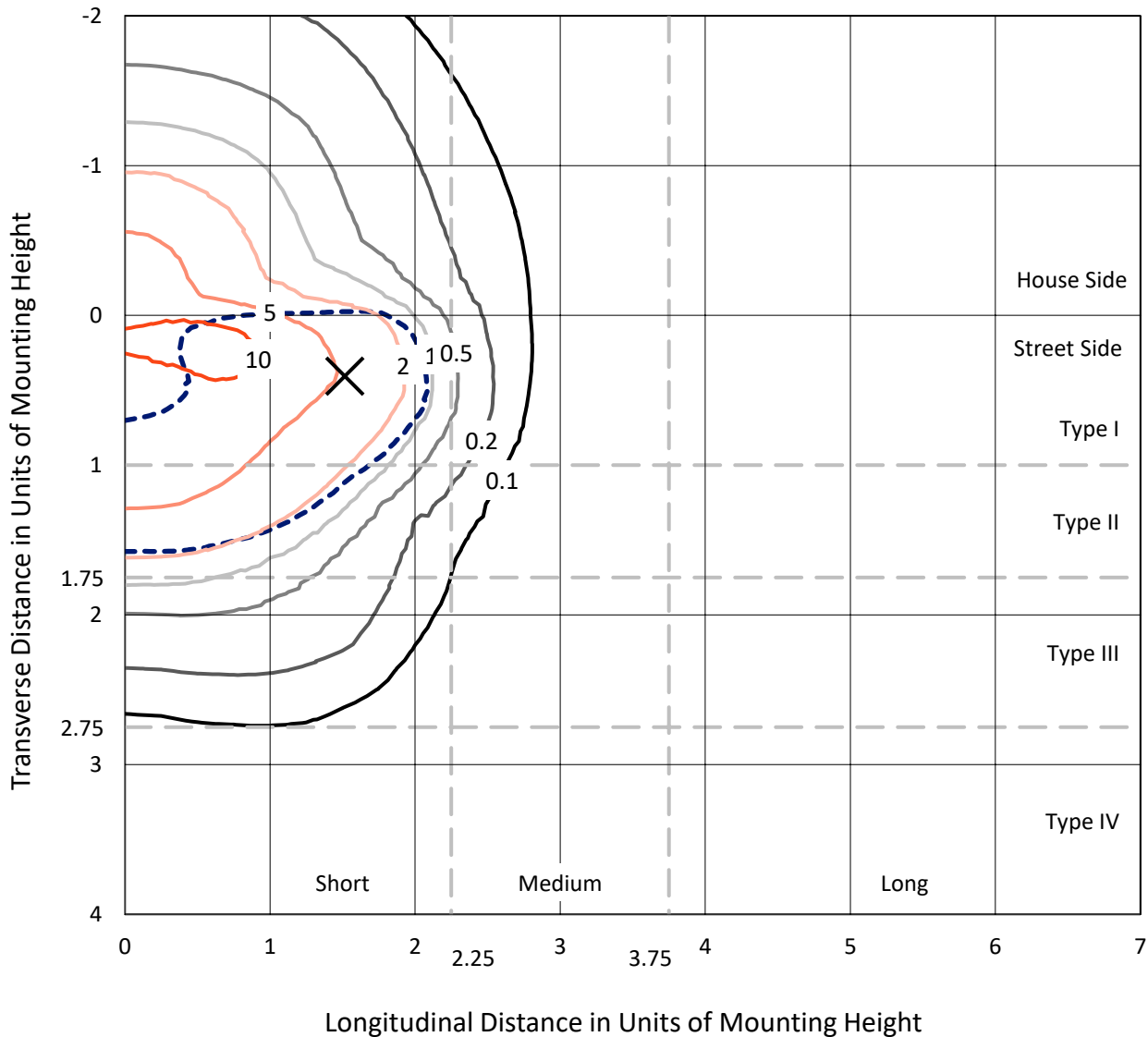
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

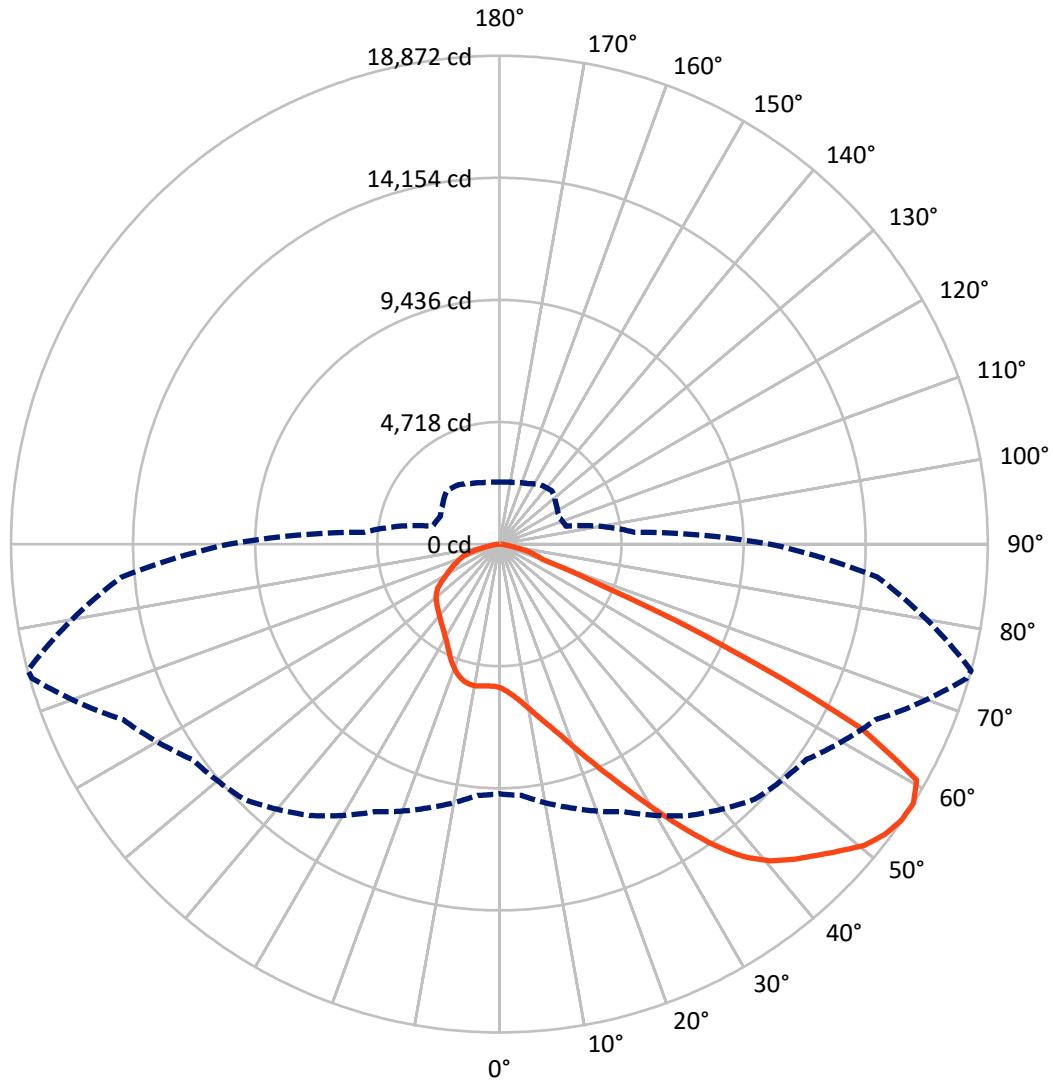
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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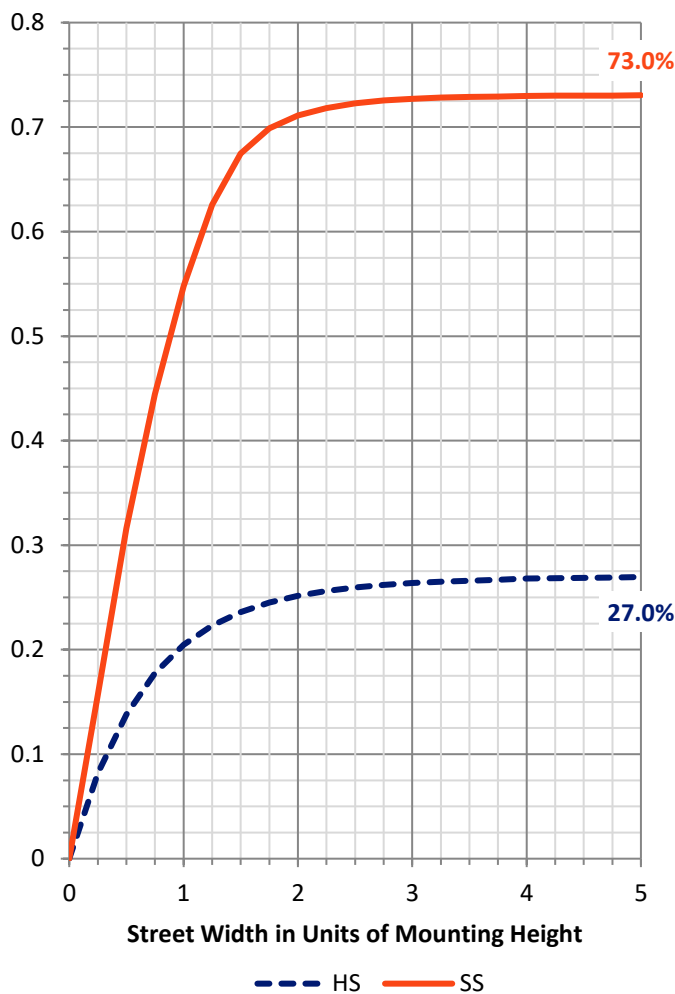
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8020.2	0.0	8020.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	21627.3	0.0	21627.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	29647.5	0.0	29647.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.6	1.9
10°-20°	1769.0	6.0
20°-30°	3137.2	10.6
30°-40°	4802.5	16.2
40°-50°	6687.1	22.6
50°-60°	7662.1	25.8
60°-70°	3936.9	13.3
70°-80°	991.2	3.3
80°-90°	106.0	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°	29647.5	100.0
0°-180°	29647.5	100.0

Coefficient of Utilization



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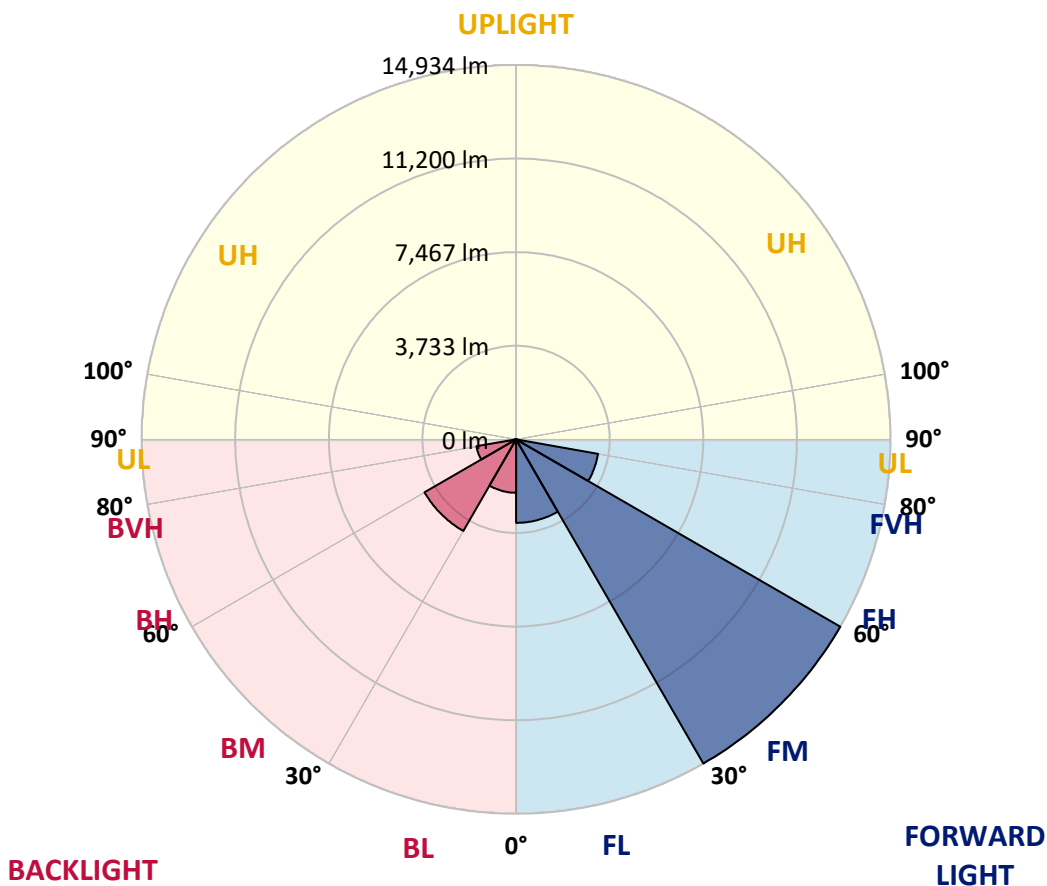
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3331.1	11.2			
FM (30°-60°)	14933.8	50.4			
FH (60°-80°)	3323.2	11.2			G2/5000
FVH (80°-90°)	39.2	0.1			G1/100
BL (0°-30°)	2130.7	7.2	B3/2500		
BM (30°-60°)	4217.9	14.2	B3/5000		
BH (60°-80°)	1604.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	66.7	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°	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3
2.5°	5965.2	5980.5	5965.2	5990.7	5939.8	5916.8	5860.7	5776.6	5710.3	5700.1	5626.2
5°	6429.2	6462.3	6442.0	6431.8	6362.9	6311.9	6227.8	6059.6	5921.9	5901.5	5756.2
7.5°	6727.5	6750.4	6750.4	6758.1	6732.6	6673.9	6584.7	6385.9	6192.1	6161.5	5942.3
10°	6826.9	6844.7	6877.9	6941.6	6992.6	7010.4	6951.8	6760.6	6523.5	6492.9	6187.0
12.5°	6849.8	6870.2	6921.2	7038.5	7178.7	7306.1	7316.3	7176.1	6911.0	6877.9	6470.0
15°	6893.2	6913.6	6982.4	7127.7	7334.2	7578.9	7729.3	7632.5	7339.3	7303.6	6791.2
17.5°	6888.1	6911.0	7013.0	7206.7	7484.6	7838.9	8129.6	8170.3	7867.0	7805.8	7155.7
20°	6875.3	6895.7	7005.3	7242.4	7586.6	8073.5	8598.6	8810.2	8483.9	8427.8	7581.5
22.5°	6977.3	7000.2	7084.4	7280.7	7640.1	8254.5	9032.0	9541.8	9215.5	9136.5	8070.9
25°	7206.7	7239.9	7290.9	7426.0	7737.0	8415.1	9475.6	10370.3	10036.4	9942.1	8603.7
27.5°	7561.1	7601.9	7673.2	7737.0	7953.7	8619.0	9916.6	11298.3	10964.3	10864.9	9167.1
30°	7994.4	8048.0	8139.8	8183.1	8330.9	8919.8	10395.8	12254.2	12060.5	11922.8	9801.9
32.5°	8593.5	8667.4	8754.1	8766.9	8856.1	9376.1	10870.0	13202.6	13200.0	13103.1	10523.3
35°	9373.6	9452.6	9470.5	9488.3	9531.6	10003.3	11443.6	14066.8	14400.7	14288.5	11308.5
37.5°	10225.0	10339.8	10367.8	10288.8	10350.0	10757.8	12088.5	14760.2	15445.9	15326.1	12068.1
40°	11135.1	11181.0	11257.5	11132.6	11209.0	11622.0	12720.8	15203.7	16226.0	16098.5	12667.2
42.5°	11787.7	11871.9	11986.6	11940.7	11984.0	12361.3	13164.3	15417.9	16781.7	16654.2	13098.0
45°	12496.4	12521.9	12595.8	12585.6	12611.1	12962.9	13483.0	15512.2	17278.8	17164.1	13465.1
47.5°	13113.3	13151.6	13200.0	13143.9	13087.8	13317.3	13743.0	15593.8	17852.4	17714.7	13850.1
50°	13707.3	13740.5	13799.1	13635.9	13426.9	13485.5	13870.5	15705.9	18390.3	18293.4	14153.4
52.5°	13816.9	13852.6	14127.9	14161.1	13893.4	13686.9	14094.8	15953.2	18706.4	18645.2	14263.0
55°	12437.8	12501.5	13049.6	13679.3	14339.5	14273.2	14454.2	16083.2	18831.3	18846.6	14459.3
57.5°	9654.0	9745.8	10546.2	11410.4	12799.8	13949.5	14500.1	16050.1	18788.0	18872.1	14660.7
60°	6332.3	6385.9	7334.2	8302.9	9743.2	11334.0	12978.2	15453.5	18403.0	18522.8	14609.7
62.5°	3823.9	3885.1	4647.3	5381.5	6230.4	7293.4	8802.6	12419.9	15425.5	15693.2	11701.1
65°	2669.1	2750.6	3418.5	4022.7	4315.9	4096.6	4458.6	6936.5	9610.7	9722.8	7150.6
67.5°	1934.9	1991.0	2539.1	3257.9	3581.7	2893.4	2205.1	3071.8	4185.9	4226.7	2949.5
70°	1267.0	1330.7	1827.8	2480.4	2924.0	2345.3	1649.4	1662.1	1761.5	1781.9	1713.1
72.5°	695.9	734.2	1129.3	1646.8	1728.4	1402.1	1287.4	1381.7	1450.5	1450.5	1468.4
75°	359.4	392.6	461.4	543.0	655.2	767.3	927.9	1068.1	1142.1	1147.2	1139.5
77.5°	183.5	196.3	247.3	267.7	293.2	341.6	443.6	568.5	634.8	660.3	655.2
80°	86.7	91.8	104.5	122.4	150.4	191.2	239.6	285.5	326.3	331.4	359.4
82.5°	45.9	51.0	56.1	66.3	81.6	102.0	140.2	168.3	193.7	198.8	221.8
85°	17.8	20.4	22.9	25.5	35.7	43.3	58.6	79.0	96.9	96.9	114.7
87.5°	0.0	0.0	0.0	0.0	2.5	5.1	10.2	12.7	17.8	17.8	30.6
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°	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3
2.5°	5608.3	5534.4	5501.3	5447.7	5404.4	5356.0	5317.7	5289.7	5271.8	5261.7	5251.5
5°	5700.1	5588.0	5498.7	5391.7	5317.7	5246.4	5187.7	5146.9	5126.5	5111.2	5101.0
7.5°	5842.9	5692.5	5524.2	5358.5	5228.5	5113.8	5039.9	4996.5	4968.5	4958.3	4950.6
10°	6039.2	5830.1	5552.3	5289.7	5095.9	4971.0	4920.1	4899.7	4902.2	4897.1	4894.6
12.5°	6261.0	5975.4	5544.6	5167.3	4953.2	4879.3	4881.8	4915.0	4953.2	4963.4	4965.9
15°	6500.6	6118.2	5470.7	5009.3	4841.0	4848.7	4915.0	4994.0	5065.4	5093.4	5098.5
17.5°	6760.6	6238.0	5335.6	4835.9	4749.3	4830.8	4953.2	5083.2	5187.7	5233.6	5246.4
20°	7051.2	6340.0	5144.4	4665.1	4662.6	4797.7	4976.1	5146.9	5279.5	5340.7	5350.9
22.5°	7359.7	6403.7	4909.9	4507.1	4573.4	4754.3	4958.3	5136.7	5276.9	5338.1	5350.9
25°	7670.7	6424.1	4652.4	4361.8	4481.6	4685.5	4871.6	5014.4	5146.9	5200.5	5210.7
27.5°	7961.3	6365.5	4407.7	4236.9	4397.5	4583.6	4708.5	4784.9	4876.7	4917.5	4925.1
30°	8257.0	6248.2	4201.2	4137.4	4303.1	4443.3	4499.4	4504.5	4540.2	4540.2	4545.3
32.5°	8555.3	6074.9	4020.2	4040.6	4185.9	4277.6	4285.3	4226.7	4183.3	4111.9	4109.4
35°	8899.4	5899.0	3872.3	3930.9	4048.2	4104.3	4081.3	3969.2	3864.7	3747.4	3742.3
37.5°	9218.1	5718.0	3747.4	3818.8	3892.7	3933.5	3880.0	3744.8	3658.2	3538.4	3520.5
40°	9480.7	5554.8	3627.6	3701.5	3737.2	3772.9	3686.2	3576.6	3589.3	3523.1	3520.5
42.5°	9633.6	5396.8	3515.4	3571.5	3594.4	3619.9	3543.5	3461.9	3530.7	3479.7	3482.3
45°	9745.8	5259.1	3413.4	3433.8	3489.9	3528.2	3456.8	3365.0	3380.3	3184.0	3138.1
47.5°	9873.2	5182.6	3316.6	3296.2	3395.6	3461.9	3352.3	3219.7	3127.9	2934.2	2916.3
50°	10008.4	5154.6	3214.6	3158.5	3278.3	3342.1	3214.6	3048.9	2929.1	2824.6	2814.4
52.5°	10054.2	5152.0	3087.1	2992.8	3112.6	3201.9	3094.8	2926.5	2783.8	2681.8	2676.7
55°	10235.2	5226.0	2924.0	2765.9	2878.1	3061.6	2982.6	2740.4	2625.7	2579.8	2574.7
57.5°	10446.8	5238.7	2666.5	2518.7	2674.2	2890.8	2791.4	2582.4	2457.5	2401.4	2396.3
60°	10360.1	4925.1	2391.2	2330.0	2500.8	2730.2	2638.5	2457.5	2312.2	2258.6	2253.5
62.5°	7895.0	3477.2	2189.8	2166.9	2314.7	2498.3	2480.4	2291.8	2154.1	2115.9	2110.8
65°	4749.3	2442.2	1996.1	1993.5	2098.0	2273.9	2296.9	2143.9	1998.6	1945.1	1945.1
67.5°	2347.9	1868.6	1776.8	1764.1	1830.4	1955.3	2052.1	1927.2	1804.9	1753.9	1746.2
70°	1659.6	1646.8	1616.2	1580.5	1593.3	1644.3	1685.1	1580.5	1450.5	1399.5	1389.3
72.5°	1435.2	1437.8	1417.4	1389.3	1379.1	1343.5	1307.8	1231.3	1152.3	1098.7	1103.8
75°	1114.0	1119.1	1131.9	1121.7	1093.6	1055.4	1017.2	920.3	856.5	805.6	795.4
77.5°	650.1	675.6	716.3	706.1	711.2	657.7	642.4	548.1	489.5	453.8	446.1
80°	367.1	382.4	400.2	413.0	397.7	374.7	341.6	290.6	272.8	247.3	242.2
82.5°	221.8	237.1	244.7	254.9	249.8	219.2	193.7	160.6	145.3	132.6	130.0
85°	112.2	122.4	130.0	135.1	119.8	99.4	89.2	71.4	61.2	53.5	53.5
87.5°	28.0	30.6	35.7	30.6	28.0	12.7	10.2	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)