

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: P638269

Luminaire Tested: GWS-SA4E-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638269
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-SA4E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25514.1 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

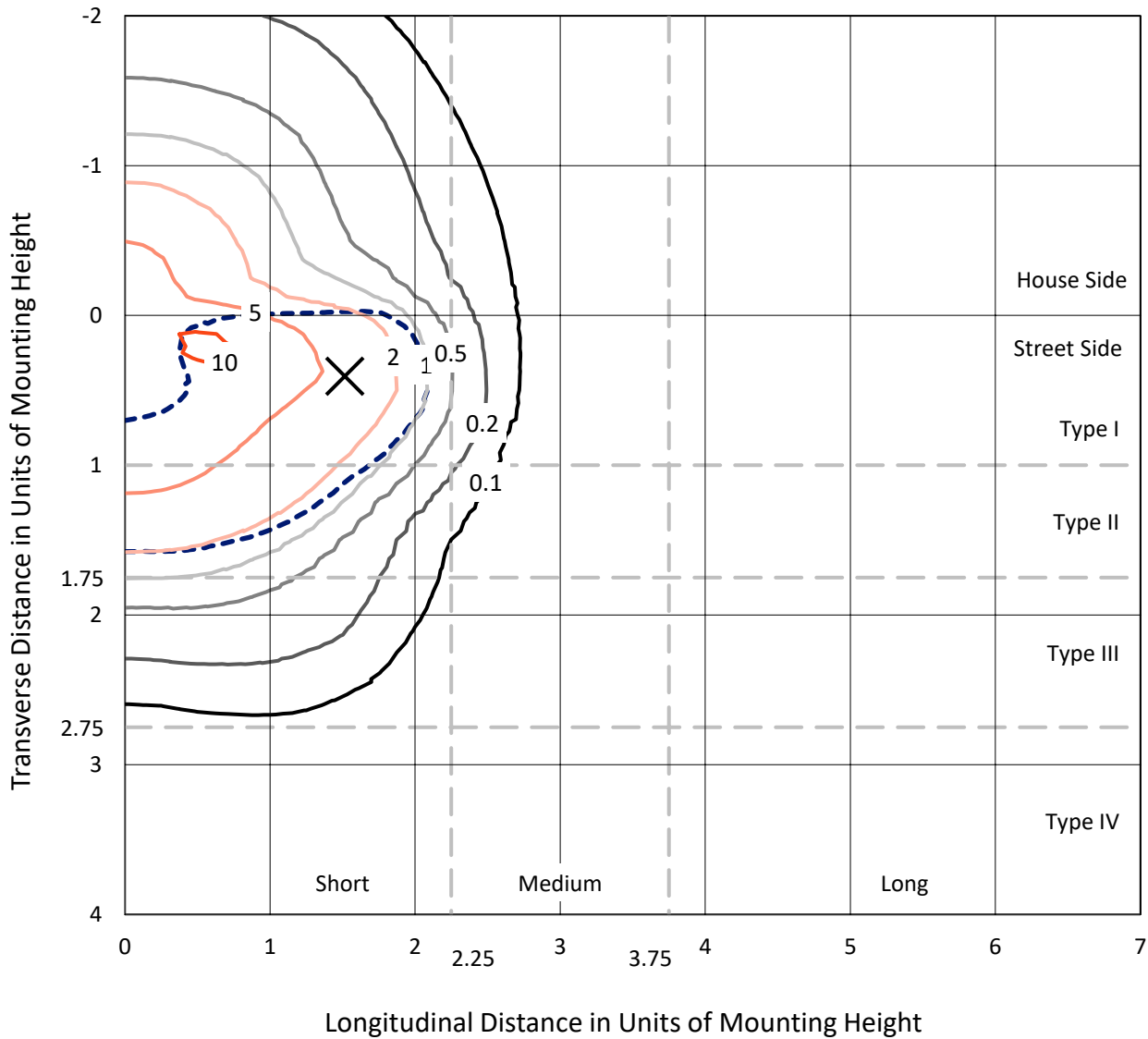
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

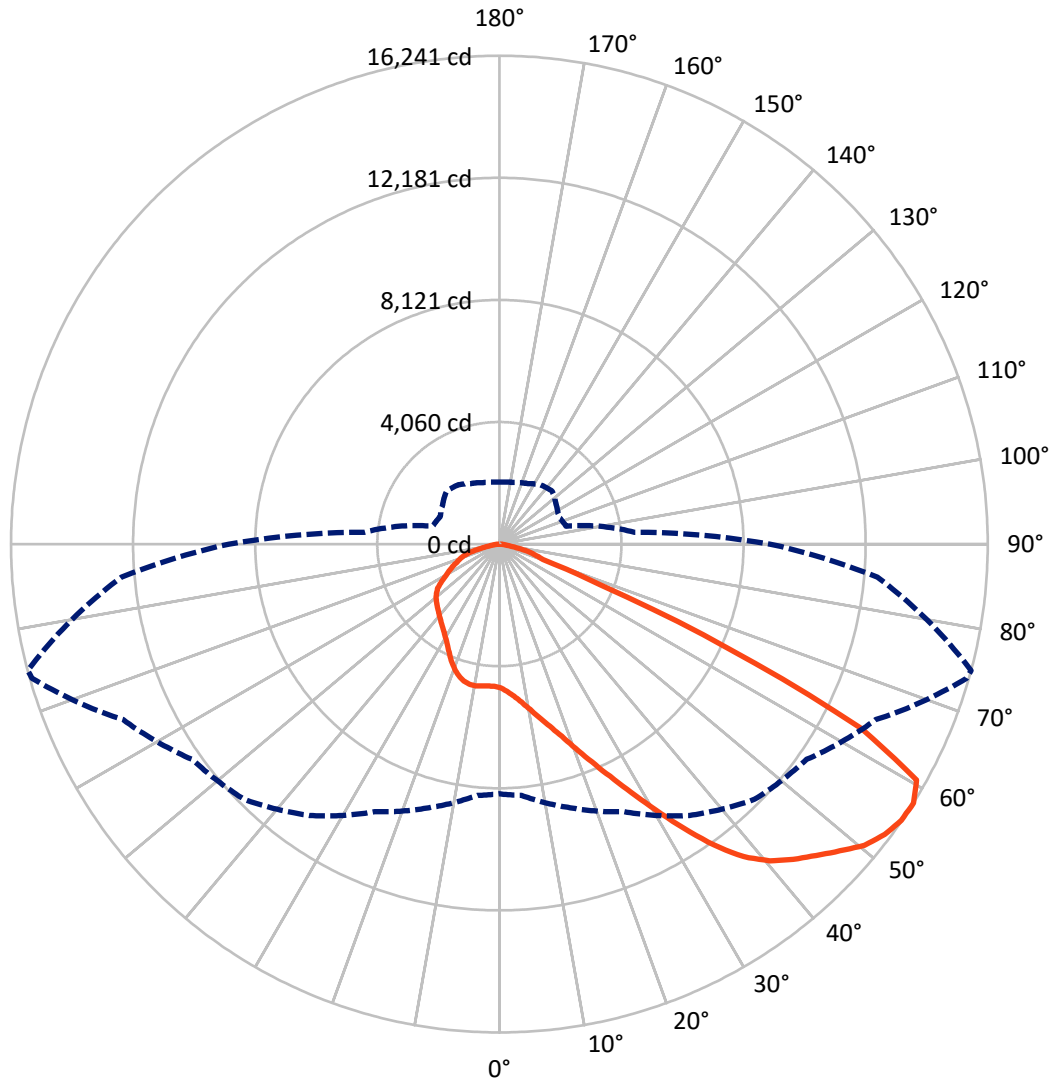
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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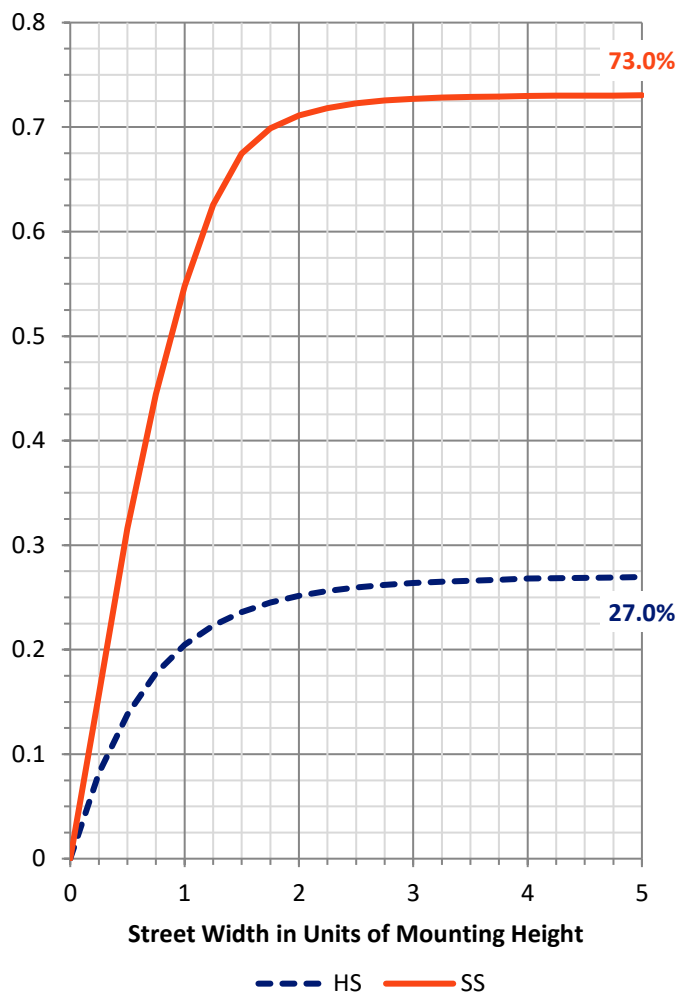
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6902.1	0.0	6902.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	18612.0	0.0	18612.0
	% Fixture	72.9	0.0	72.9
Total	Lumens	25514.1	0.0	25514.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.1	1.9
10°-20°	1522.3	6.0
20°-30°	2699.8	10.6
30°-40°	4132.9	16.2
40°-50°	5754.8	22.6
50°-60°	6593.9	25.8
60°-70°	3388.0	13.3
70°-80°	853.0	3.3
80°-90°	91.2	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°	25514.1	100.0
0°-180°	25514.1	100.0

Coefficient of Utilization



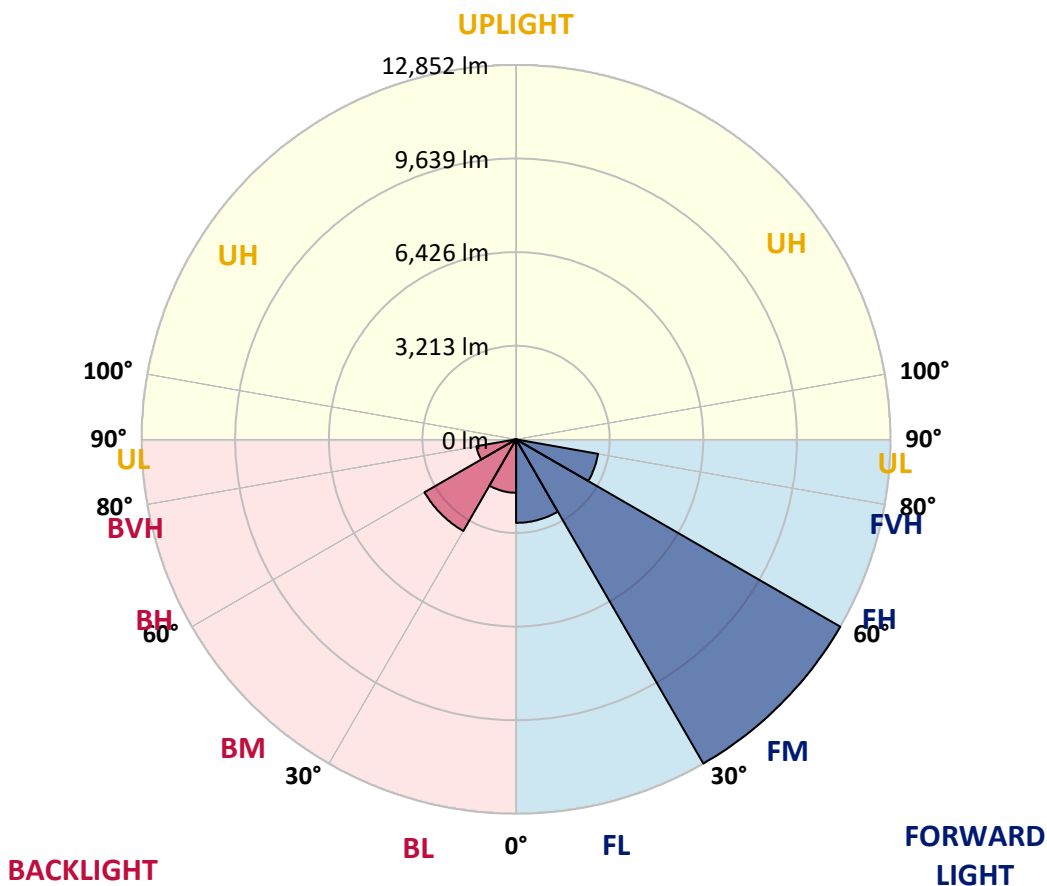
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2866.7	11.2			
FM (30°-60°)	12851.7	50.4			
FH (60°-80°)	2859.9	11.2			G2/5000
FVH (80°-90°)	33.7	0.1			G1/100
BL (0°-30°)	1833.6	7.2	B3/2500		
BM (30°-60°)	3629.9	14.2	B3/5000		
BH (60°-80°)	1381.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	57.4	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°	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2
2.5°	5133.6	5146.7	5133.6	5155.5	5111.6	5091.9	5043.6	4971.2	4914.2	4905.4	4841.8
5°	5532.9	5561.4	5543.8	5535.1	5475.8	5431.9	5359.5	5214.8	5096.3	5078.7	4953.7
7.5°	5789.5	5809.3	5809.3	5815.9	5793.9	5743.5	5666.7	5495.6	5328.8	5302.5	5113.8
10°	5875.1	5890.5	5919.0	5973.8	6017.7	6033.1	5982.6	5818.1	5614.0	5587.7	5324.4
12.5°	5894.8	5912.4	5956.3	6057.2	6177.8	6287.5	6296.3	6175.7	5947.5	5919.0	5568.0
15°	5932.1	5949.7	6008.9	6134.0	6311.7	6522.3	6651.7	6568.3	6316.1	6285.3	5844.4
17.5°	5927.7	5947.5	6035.2	6202.0	6441.1	6746.1	6996.1	7031.2	6770.2	6717.5	6158.1
20°	5916.8	5934.3	6028.7	6232.7	6528.9	6947.9	7399.8	7581.9	7301.1	7252.8	6524.5
22.5°	6004.5	6024.3	6096.7	6265.6	6574.9	7103.6	7772.8	8211.5	7930.7	7862.7	6945.7
25°	6202.0	6230.5	6274.4	6390.6	6658.3	7241.9	8154.5	8924.5	8637.1	8556.0	7404.2
27.5°	6506.9	6542.0	6603.5	6658.3	6844.8	7417.4	8534.0	9723.1	9435.7	9350.1	7889.0
30°	6879.9	6925.9	7004.9	7042.2	7169.5	7676.2	8946.5	10545.8	10379.0	10260.6	8435.3
32.5°	7395.4	7459.0	7533.6	7544.6	7621.4	8068.9	9354.5	11361.9	11359.7	11276.3	9056.2
35°	8066.7	8134.8	8150.1	8165.5	8202.8	8608.6	9848.1	12105.6	12393.0	12296.5	9731.9
37.5°	8799.5	8898.2	8922.3	8854.3	8907.0	9258.0	10403.2	12702.3	13292.5	13189.4	10385.6
40°	9582.7	9622.2	9688.0	9580.5	9646.3	10001.7	10947.2	13084.0	13963.8	13854.1	10901.2
42.5°	10144.3	10216.7	10315.4	10275.9	10313.2	10637.9	11329.0	13268.3	14442.0	14332.3	11271.9
45°	10754.2	10776.1	10839.8	10831.0	10852.9	11155.7	11603.2	13349.5	14869.8	14771.1	11587.9
47.5°	11285.1	11318.0	11359.7	11311.4	11263.2	11460.6	11827.0	13419.7	15363.4	15245.0	11919.1
50°	11796.3	11824.8	11875.2	11734.8	11554.9	11605.4	11936.7	13516.2	15826.3	15743.0	12180.2
52.5°	11890.6	11921.3	12158.2	12186.8	11956.4	11778.7	12129.7	13729.0	16098.4	16045.7	12274.5
55°	10703.7	10758.6	11230.3	11772.1	12340.3	12283.3	12439.1	13840.9	16205.9	16219.0	12443.4
57.5°	8308.1	8387.0	9075.9	9819.6	11015.3	12004.7	12478.5	13812.4	16168.6	16241.0	12616.8
60°	5449.5	5495.6	6311.7	7145.3	8384.8	9753.8	11168.8	13299.0	15837.3	15940.4	12572.9
62.5°	3290.8	3343.4	3999.4	4631.2	5361.7	6276.6	7575.3	10688.4	13274.9	13505.3	10069.7
65°	2296.9	2367.2	2941.9	3461.9	3714.2	3525.5	3837.0	5969.4	8270.8	8367.3	6153.7
67.5°	1665.1	1713.4	2185.1	2803.7	3082.3	2490.0	1897.7	2643.6	3602.3	3637.4	2538.3
70°	1090.3	1145.2	1573.0	2134.6	2516.3	2018.3	1419.4	1430.4	1515.9	1533.5	1474.3
72.5°	598.9	631.8	971.9	1417.2	1487.4	1206.6	1107.9	1189.1	1248.3	1248.3	1263.7
75°	309.3	337.9	397.1	467.3	563.8	660.3	798.6	919.2	982.8	987.2	980.6
77.5°	158.0	168.9	212.8	230.4	252.3	294.0	381.7	489.2	546.3	568.2	563.8
80°	74.6	79.0	89.9	105.3	129.4	164.5	206.2	245.7	280.8	285.2	309.3
82.5°	39.5	43.9	48.3	57.0	70.2	87.8	120.7	144.8	166.7	171.1	190.9
85°	15.4	17.6	19.7	21.9	30.7	37.3	50.5	68.0	83.4	83.4	98.7
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.8	11.0	15.4	15.4	26.3
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°	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2	4778.2
2.5°	4826.4	4762.8	4734.3	4688.2	4650.9	4609.3	4576.3	4552.2	4536.9	4528.1	4519.3
5°	4905.4	4808.9	4732.1	4640.0	4576.3	4514.9	4464.5	4429.4	4411.8	4398.6	4389.9
7.5°	5028.3	4898.8	4754.0	4611.4	4499.6	4400.8	4337.2	4299.9	4275.8	4267.0	4260.4
10°	5197.2	5017.3	4778.2	4552.2	4385.5	4278.0	4234.1	4216.6	4218.7	4214.4	4212.2
12.5°	5388.1	5142.4	4771.6	4446.9	4262.6	4199.0	4201.2	4229.7	4262.6	4271.4	4273.6
15°	5594.3	5265.2	4708.0	4310.9	4166.1	4172.7	4229.7	4297.7	4359.2	4383.3	4387.7
17.5°	5818.1	5368.3	4591.7	4161.7	4087.1	4157.3	4262.6	4374.5	4464.5	4503.9	4514.9
20°	6068.2	5456.1	4427.2	4014.7	4012.5	4128.8	4282.4	4429.4	4543.4	4596.1	4604.9
22.5°	6333.6	5510.9	4225.3	3878.7	3935.7	4091.5	4267.0	4420.6	4541.2	4593.9	4604.9
25°	6601.3	5528.5	4003.8	3753.7	3856.8	4032.3	4192.4	4315.3	4429.4	4475.4	4484.2
27.5°	6851.4	5478.0	3793.1	3646.2	3784.4	3944.5	4052.0	4117.8	4196.8	4231.9	4238.5
30°	7105.8	5377.1	3615.4	3560.6	3703.2	3823.9	3872.1	3876.5	3907.2	3907.2	3911.6
32.5°	7362.5	5227.9	3459.7	3477.2	3602.3	3681.3	3687.8	3637.4	3600.1	3538.7	3536.5
35°	7658.7	5076.5	3332.4	3382.9	3483.8	3532.1	3512.3	3415.8	3325.9	3224.9	3220.6
37.5°	7932.9	4920.8	3224.9	3286.4	3350.0	3385.1	3339.0	3222.7	3148.2	3045.0	3029.7
40°	8158.9	4780.4	3121.8	3185.5	3216.2	3246.9	3172.3	3078.0	3088.9	3031.9	3029.7
42.5°	8290.5	4644.4	3025.3	3073.6	3093.3	3115.2	3049.4	2979.2	3038.5	2994.6	2996.8
45°	8387.0	4525.9	2937.5	2955.1	3003.4	3036.3	2974.8	2895.9	2909.0	2740.1	2700.6
47.5°	8496.7	4460.1	2854.2	2836.6	2922.2	2979.2	2884.9	2770.8	2691.8	2525.1	2509.8
50°	8613.0	4435.9	2766.4	2718.2	2821.3	2876.1	2766.4	2623.8	2520.7	2430.8	2422.0
52.5°	8652.5	4433.7	2656.7	2575.6	2678.7	2755.5	2663.3	2518.5	2395.7	2307.9	2303.5
55°	8808.3	4497.4	2516.3	2380.3	2476.8	2634.8	2566.8	2358.4	2259.7	2220.2	2215.8
57.5°	8990.3	4508.3	2294.8	2167.5	2301.3	2487.8	2402.3	2222.4	2114.9	2066.6	2062.2
60°	8915.8	4238.5	2057.8	2005.2	2152.2	2349.6	2270.6	2114.9	1989.8	1943.7	1939.4
62.5°	6794.3	2992.4	1884.5	1864.8	1992.0	2150.0	2134.6	1972.3	1853.8	1820.9	1816.5
65°	4087.1	2101.7	1717.8	1715.6	1805.5	1956.9	1976.6	1845.0	1720.0	1673.9	1673.9
67.5°	2020.5	1608.1	1529.1	1518.1	1575.2	1682.7	1766.0	1658.5	1553.2	1509.4	1502.8
70°	1428.2	1417.2	1390.9	1360.2	1371.1	1415.0	1450.1	1360.2	1248.3	1204.4	1195.6
72.5°	1235.1	1237.3	1219.8	1195.6	1186.9	1156.2	1125.4	1059.6	991.6	945.5	949.9
75°	958.7	963.1	974.1	965.3	941.2	908.2	875.3	792.0	737.1	693.3	684.5
77.5°	559.4	581.4	616.5	607.7	612.1	566.0	552.8	471.7	421.2	390.5	383.9
80°	315.9	329.1	344.4	355.4	342.2	322.5	294.0	250.1	234.7	212.8	208.4
82.5°	190.9	204.0	210.6	219.4	215.0	188.7	166.7	138.2	125.0	114.1	111.9
85°	96.5	105.3	111.9	116.3	103.1	85.6	76.8	61.4	52.7	46.1	46.1
87.5°	24.1	26.3	30.7	26.3	24.1	11.0	8.8	2.2	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)