

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: P638379

Luminaire Tested: GWS-SA4E-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638379
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-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: 25741 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

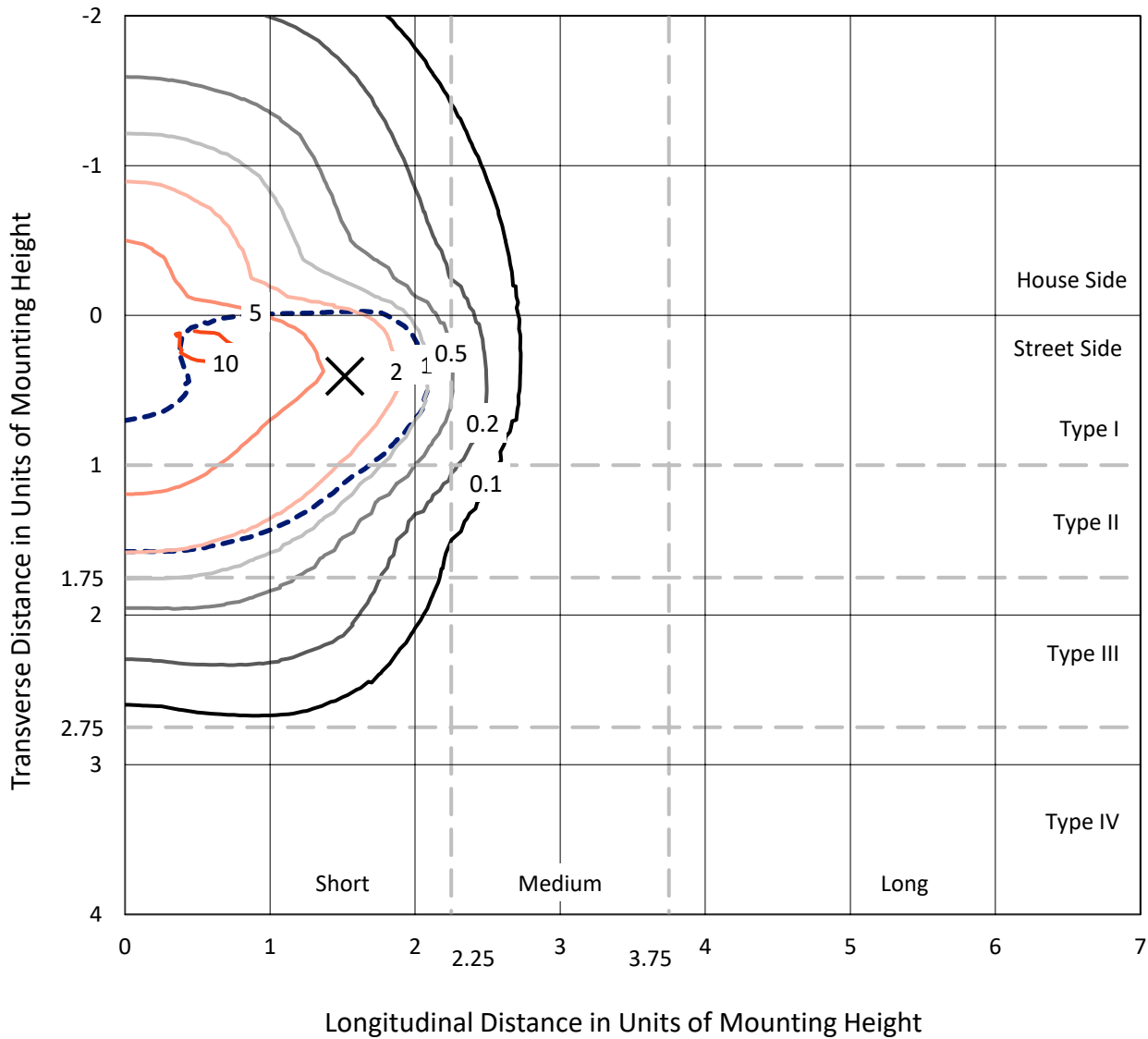
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

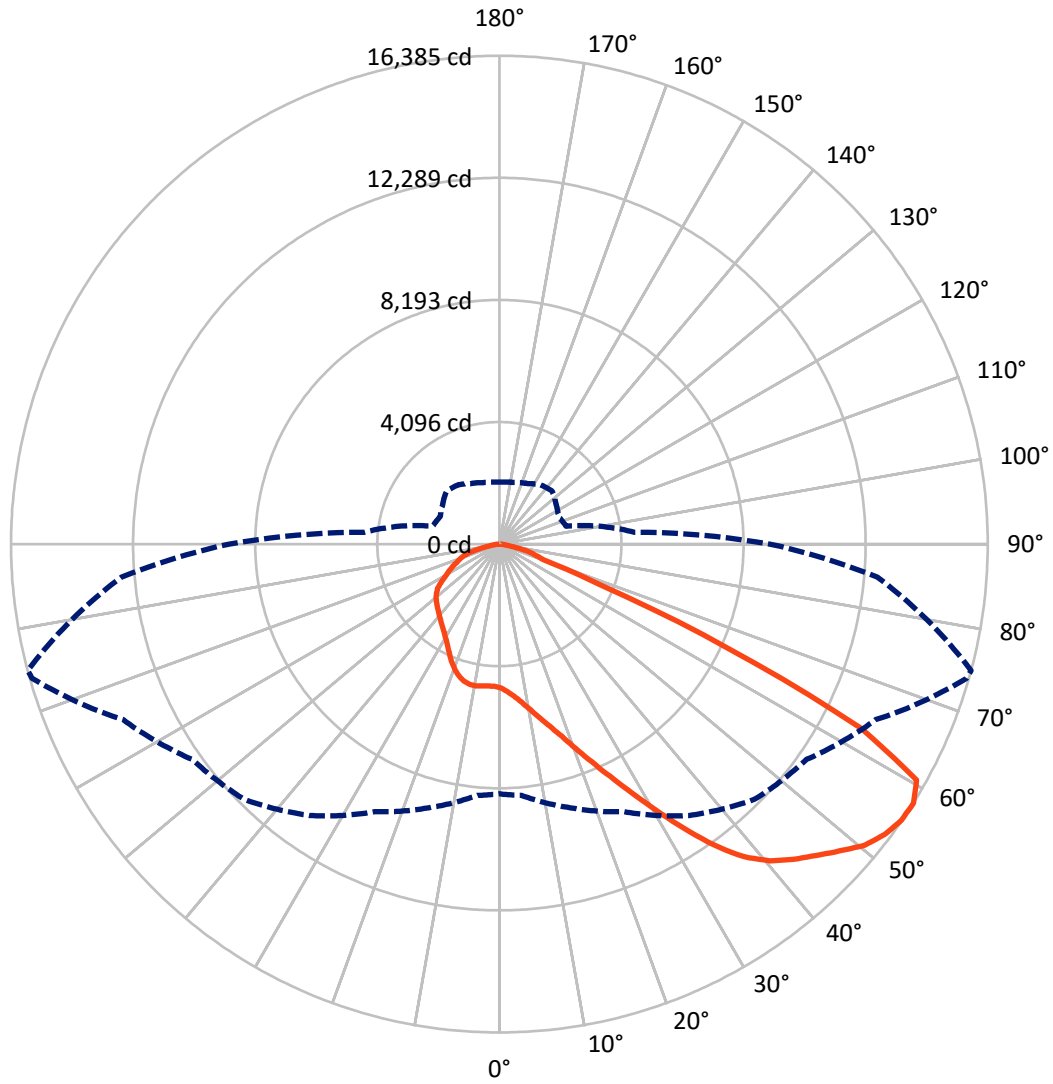
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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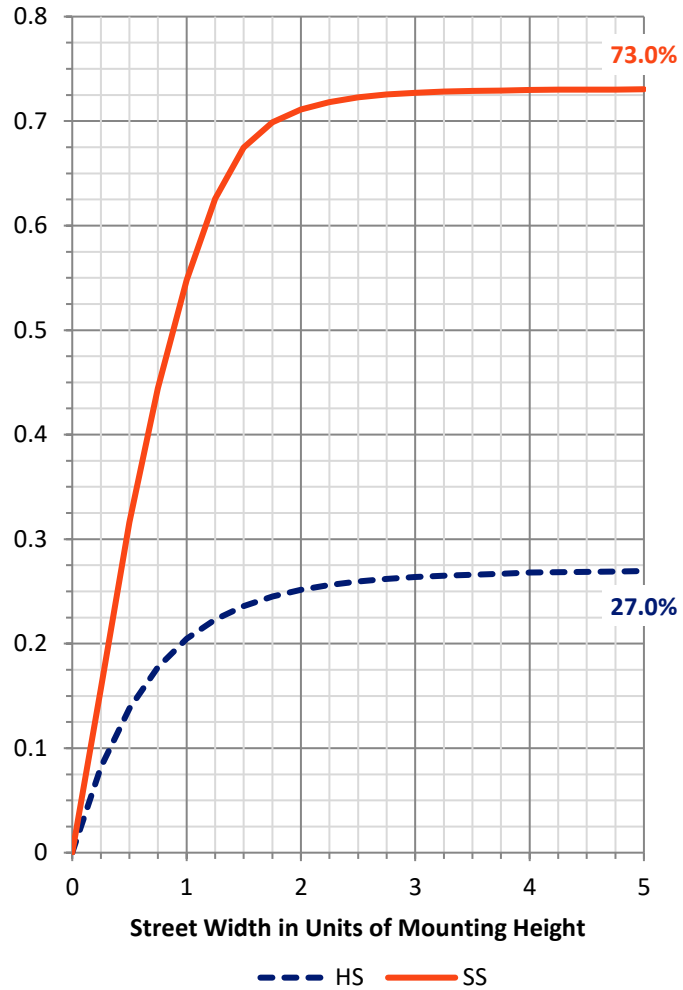
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6963.5	0.0	6963.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	18777.5	0.0	18777.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	25741.0	0.0	25741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	1.9
10°-20°	1535.9	6.0
20°-30°	2723.8	10.6
30°-40°	4169.7	16.2
40°-50°	5806.0	22.6
50°-60°	6652.5	25.8
60°-70°	3418.2	13.3
70°-80°	860.6	3.3
80°-90°	92.0	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°	25741.0	100.0
0°-180°	25741.0	100.0

Coefficient of Utilization



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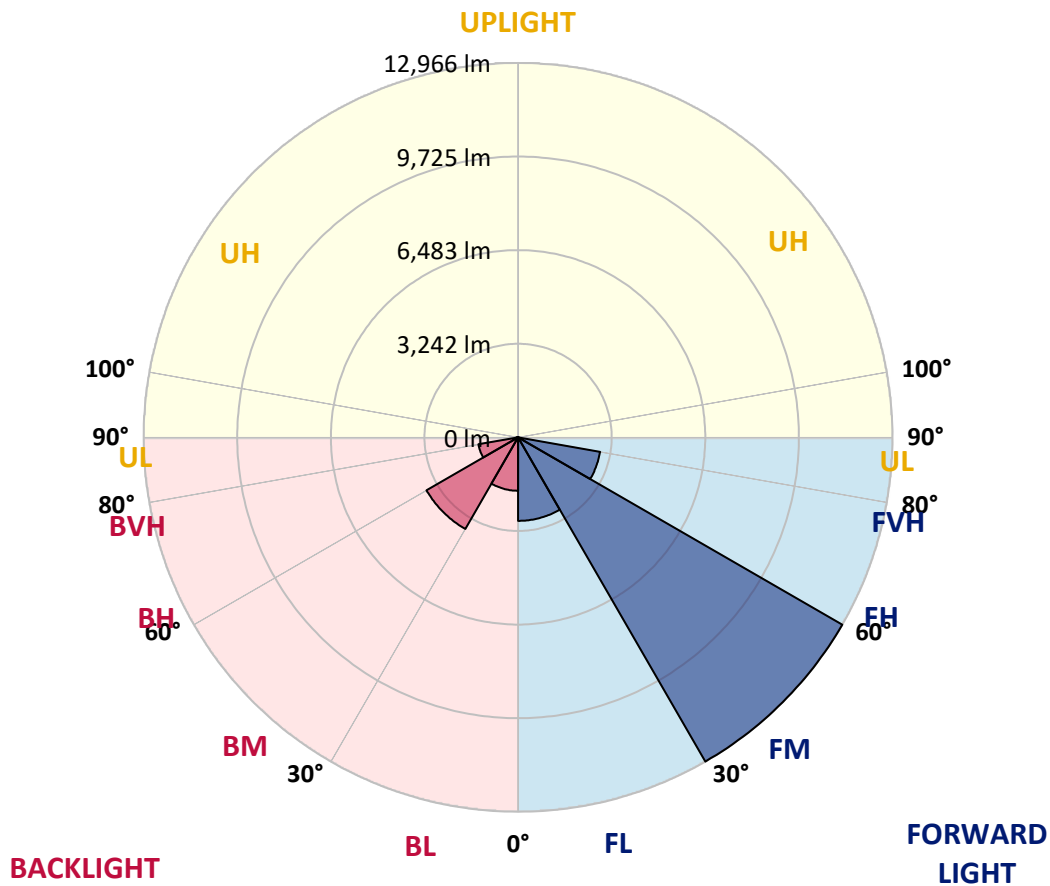
CATALOG NUMBER: GWS-SA4E-760-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2892.2	11.2			
FM (30°-60°)	12966.0	50.4			
FH (60°-80°)	2885.3	11.2			G2/5000
FVH (80°-90°)	34.0	0.1			G1/100
BL (0°-30°)	1849.9	7.2	B3/2500		
BM (30°-60°)	3662.2	14.2	B3/5000		
BH (60°-80°)	1393.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	57.9	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°	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7
2.5°	5179.2	5192.5	5179.2	5201.4	5157.1	5137.2	5088.5	5015.4	4957.9	4949.0	4884.9
5°	5582.1	5610.8	5593.1	5584.3	5524.5	5480.2	5407.2	5261.1	5141.6	5123.9	4997.7
7.5°	5841.0	5860.9	5860.9	5867.6	5845.5	5794.5	5717.1	5544.4	5376.2	5349.7	5159.3
10°	5927.3	5942.8	5971.6	6026.9	6071.2	6086.7	6035.8	5869.8	5664.0	5637.4	5371.8
12.5°	5947.3	5965.0	6009.2	6111.1	6232.8	6343.5	6352.3	6230.6	6000.4	5971.6	5617.5
15°	5984.9	6002.6	6062.4	6188.5	6367.8	6580.3	6710.9	6626.8	6372.2	6341.2	5896.4
17.5°	5980.5	6000.4	6088.9	6257.1	6498.4	6806.0	7058.4	7093.8	6830.4	6777.3	6212.9
20°	5969.4	5987.1	6082.3	6288.1	6586.9	7009.7	7465.6	7649.3	7366.0	7317.3	6582.5
22.5°	6057.9	6077.9	6150.9	6321.3	6633.4	7166.8	7841.9	8284.6	8001.3	7932.6	7007.5
25°	6257.1	6285.9	6330.2	6447.5	6717.5	7306.3	8227.0	9003.9	8713.9	8632.1	7470.0
27.5°	6564.8	6600.2	6662.2	6717.5	6905.6	7483.3	8609.9	9809.6	9519.6	9433.3	7959.2
30°	6941.1	6987.5	7067.2	7104.8	7233.2	7744.5	9026.0	10639.6	10471.3	10351.8	8510.3
32.5°	7461.2	7525.4	7600.6	7611.7	7689.2	8140.7	9437.7	11462.9	11460.7	11376.6	9136.7
35°	8138.5	8207.1	8222.6	8238.1	8275.7	8685.2	9935.7	12213.3	12503.2	12405.8	9818.4
37.5°	8877.7	8977.3	9001.7	8933.1	8986.2	9340.3	10495.7	12815.3	13410.7	13306.6	10478.0
40°	9667.9	9707.7	9774.1	9665.7	9732.1	10090.7	11044.6	13200.4	14088.0	13977.3	10998.1
42.5°	10234.5	10307.6	10407.2	10367.3	10404.9	10732.5	11429.7	13386.3	14570.5	14459.8	11372.2
45°	10849.8	10872.0	10936.2	10927.3	10949.4	11254.9	11706.4	13468.2	15002.1	14902.5	11690.9
47.5°	11385.5	11418.7	11460.7	11412.0	11363.3	11562.5	11932.2	13539.0	15500.1	15380.6	12025.1
50°	11901.2	11929.9	11980.9	11839.2	11657.7	11708.6	12042.8	13636.4	15967.1	15883.0	12288.5
52.5°	11996.3	12027.3	12266.4	12295.1	12062.7	11883.5	12237.6	13851.1	16241.5	16188.4	12383.7
55°	10798.9	10854.3	11330.1	11876.8	12450.1	12392.5	12549.7	13964.0	16350.0	16363.3	12554.1
57.5°	8381.9	8461.6	9156.6	9906.9	11113.2	12111.4	12589.5	13935.2	16312.4	16385.4	12729.0
60°	5498.0	5544.4	6367.8	7208.9	8459.4	9840.5	11268.2	13417.3	15978.2	16082.2	12684.7
62.5°	3320.0	3373.1	4034.9	4672.4	5409.4	6332.4	7642.7	10783.4	13393.0	13625.4	10159.3
65°	2317.4	2388.2	2968.1	3492.7	3747.2	3556.8	3871.1	6022.5	8344.3	8441.7	6208.4
67.5°	1679.9	1728.6	2204.5	2828.7	3109.8	2512.1	1914.5	2667.1	3634.3	3669.7	2560.8
70°	1100.0	1155.4	1587.0	2153.6	2538.7	2036.3	1432.0	1443.1	1529.4	1547.1	1487.4
72.5°	604.2	637.4	980.5	1429.8	1500.6	1217.3	1117.7	1199.6	1259.4	1259.4	1274.9
75°	312.1	340.9	400.6	471.4	568.8	666.2	805.7	927.4	991.6	996.0	989.4
77.5°	159.4	170.4	214.7	232.4	254.5	296.6	385.1	493.6	551.1	573.3	568.8
80°	75.3	79.7	90.7	106.2	130.6	166.0	208.1	247.9	283.3	287.7	312.1
82.5°	39.8	44.3	48.7	57.5	70.8	88.5	121.7	146.1	168.2	172.6	192.6
85°	15.5	17.7	19.9	22.1	31.0	37.6	50.9	68.6	84.1	84.1	99.6
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.9	11.1	15.5	15.5	26.6
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°	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7	4820.7
2.5°	4869.4	4805.2	4776.4	4729.9	4692.3	4650.2	4617.0	4592.7	4577.2	4568.3	4559.5
5°	4949.0	4851.7	4774.2	4681.2	4617.0	4555.1	4504.2	4468.7	4451.0	4437.8	4428.9
7.5°	5073.0	4942.4	4796.3	4652.5	4539.6	4440.0	4375.8	4338.2	4313.8	4305.0	4298.3
10°	5243.4	5061.9	4820.7	4592.7	4424.5	4316.0	4271.8	4254.1	4256.3	4251.8	4249.6
12.5°	5436.0	5188.1	4814.0	4486.5	4300.5	4236.3	4238.6	4267.3	4300.5	4309.4	4311.6
15°	5644.0	5312.0	4749.8	4349.2	4203.1	4209.8	4267.3	4335.9	4397.9	4422.3	4426.7
17.5°	5869.8	5416.1	4632.5	4198.7	4123.5	4194.3	4300.5	4413.4	4504.2	4544.0	4555.1
20°	6122.1	5504.6	4466.5	4050.4	4048.2	4165.5	4320.5	4468.7	4583.8	4637.0	4645.8
22.5°	6389.9	5559.9	4262.9	3913.2	3970.7	4127.9	4305.0	4459.9	4581.6	4634.8	4645.8
25°	6660.0	5577.6	4039.4	3787.0	3891.1	4068.1	4229.7	4353.7	4468.7	4515.2	4524.1
27.5°	6912.3	5526.7	3826.9	3678.6	3818.0	3979.6	4088.1	4154.5	4234.1	4269.5	4276.2
30°	7169.0	5424.9	3647.6	3592.3	3736.1	3857.9	3906.6	3911.0	3942.0	3942.0	3946.4
32.5°	7428.0	5274.4	3490.4	3508.2	3634.3	3714.0	3720.6	3669.7	3632.1	3570.1	3567.9
35°	7726.8	5121.7	3362.1	3413.0	3514.8	3563.5	3543.6	3446.2	3355.4	3253.6	3249.2
37.5°	8003.5	4964.5	3253.6	3315.6	3379.8	3415.2	3368.7	3251.4	3176.2	3072.1	3056.6
40°	8231.4	4822.9	3149.6	3213.8	3244.8	3275.8	3200.5	3105.3	3116.4	3058.8	3056.6
42.5°	8364.2	4685.7	3052.2	3100.9	3120.8	3143.0	3076.6	3005.7	3065.5	3021.2	3023.4
45°	8461.6	4566.1	2963.7	2981.4	3030.1	3063.3	3001.3	2921.6	2934.9	2764.5	2724.6
47.5°	8572.3	4499.7	2879.6	2861.9	2948.2	3005.7	2910.6	2795.5	2715.8	2547.6	2532.1
50°	8689.6	4475.4	2791.0	2742.3	2846.4	2901.7	2791.0	2647.2	2543.1	2452.4	2443.5
52.5°	8729.4	4473.2	2680.4	2598.5	2702.5	2780.0	2687.0	2540.9	2417.0	2328.4	2324.0
55°	8886.6	4537.4	2538.7	2401.5	2498.9	2658.2	2589.6	2379.3	2279.7	2239.9	2235.5
57.5°	9070.3	4548.4	2315.2	2186.8	2321.8	2509.9	2423.6	2242.1	2133.7	2085.0	2080.5
60°	8995.0	4276.2	2076.1	2023.0	2171.3	2370.5	2290.8	2133.7	2007.5	1961.0	1956.6
62.5°	6854.7	3019.0	1901.3	1881.3	2009.7	2169.1	2153.6	1989.8	1870.3	1837.1	1832.7
65°	4123.5	2120.4	1733.1	1730.8	1821.6	1974.3	1994.2	1861.4	1735.3	1688.8	1688.8
67.5°	2038.5	1622.4	1542.7	1531.6	1589.2	1697.6	1781.7	1673.3	1567.1	1522.8	1516.1
70°	1440.9	1429.8	1403.3	1372.3	1383.3	1427.6	1463.0	1372.3	1259.4	1215.1	1206.3
72.5°	1246.1	1248.3	1230.6	1206.3	1197.4	1166.4	1135.4	1069.0	1000.4	954.0	958.4
75°	967.2	971.7	982.7	973.9	949.5	916.3	883.1	799.0	743.7	699.4	690.6
77.5°	564.4	586.5	622.0	613.1	617.5	571.0	557.8	475.9	425.0	394.0	387.3
80°	318.7	332.0	347.5	358.6	345.3	325.4	296.6	252.3	236.8	214.7	210.3
82.5°	192.6	205.8	212.5	221.3	216.9	190.3	168.2	139.4	126.2	115.1	112.9
85°	97.4	106.2	112.9	117.3	104.0	86.3	77.5	62.0	53.1	46.5	46.5
87.5°	24.3	26.6	31.0	26.6	24.3	11.1	8.9	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)