

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: P638391

Luminaire Tested: GWS-SA4E-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27069 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

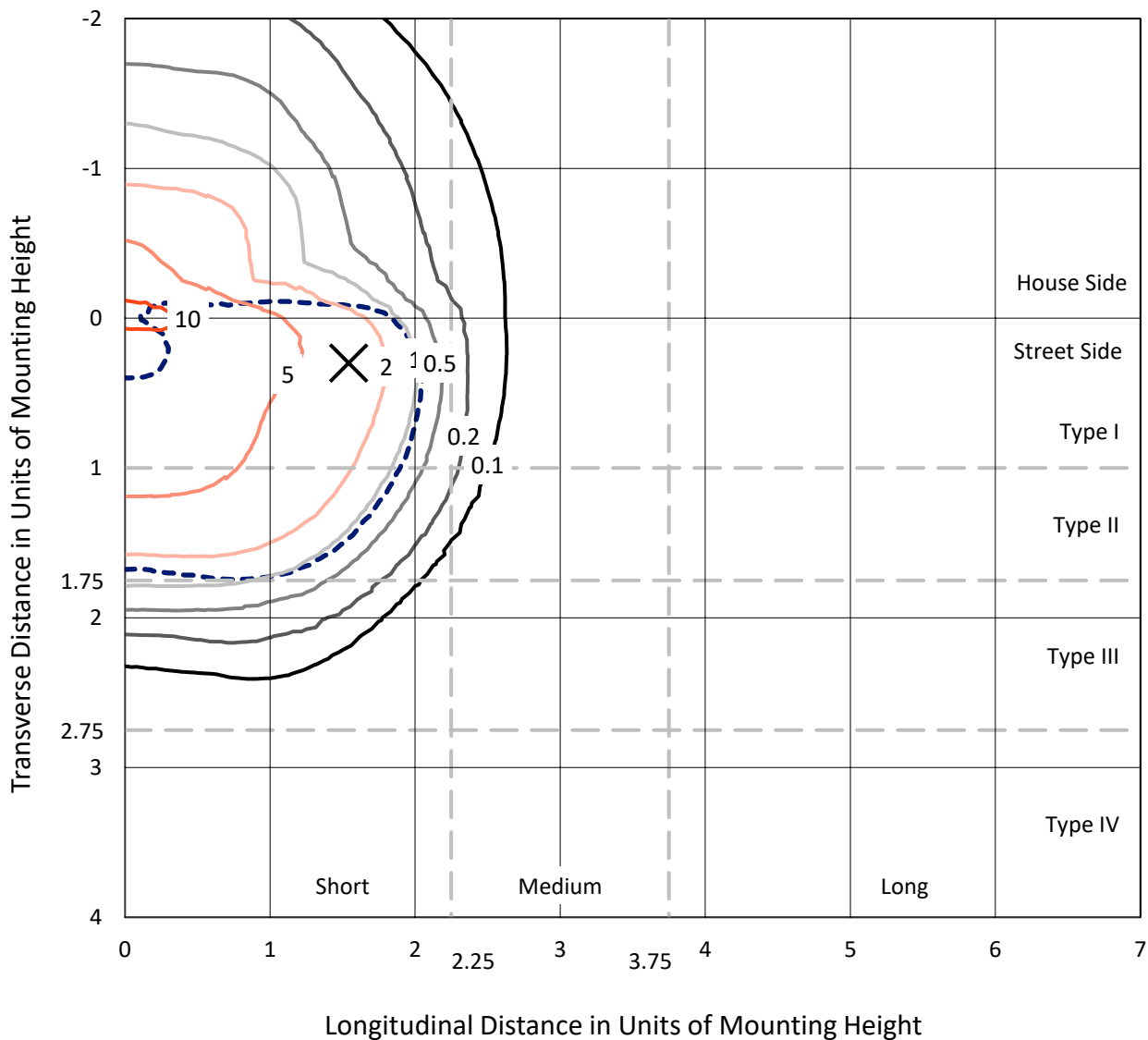
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

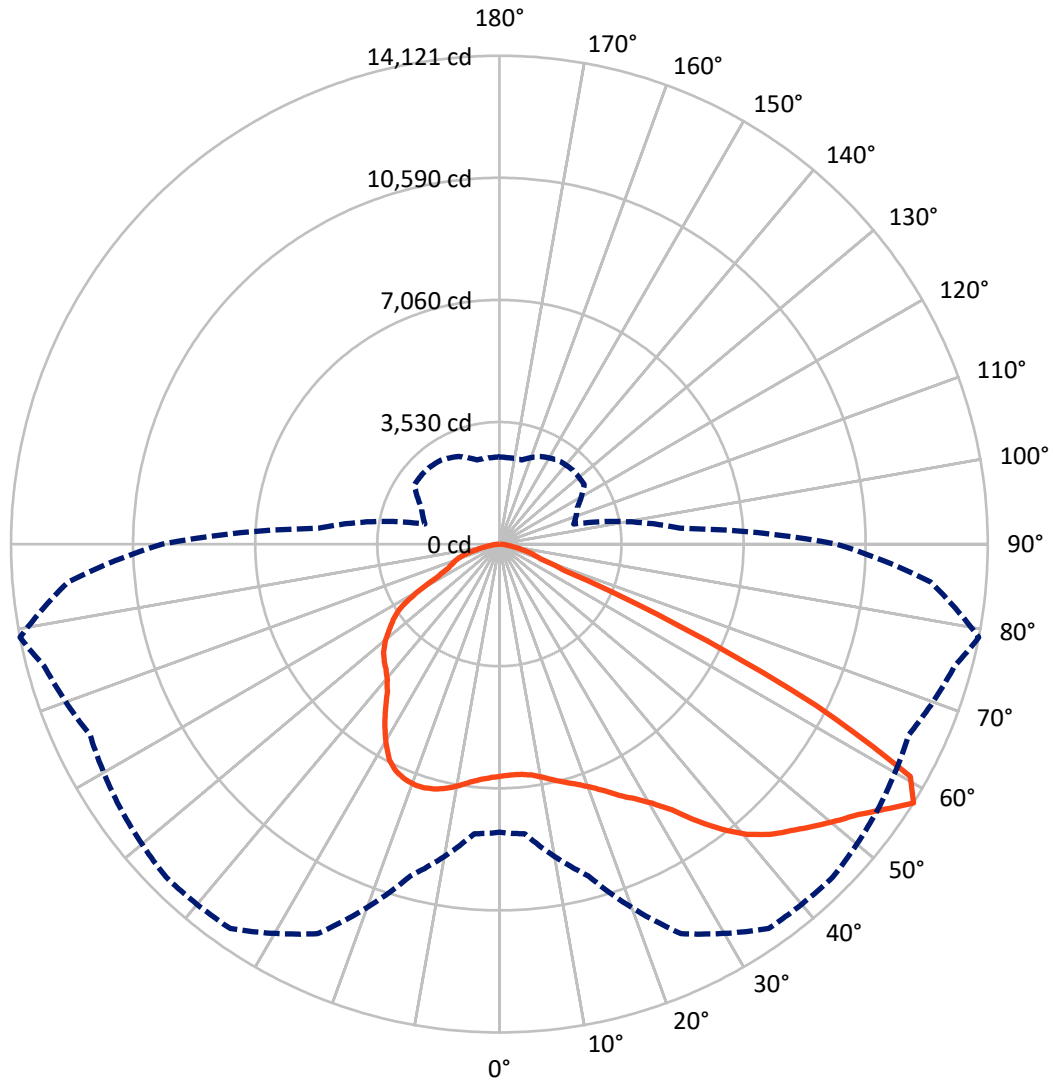
✕ Max cd
 - - - 1/2 Max cd



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 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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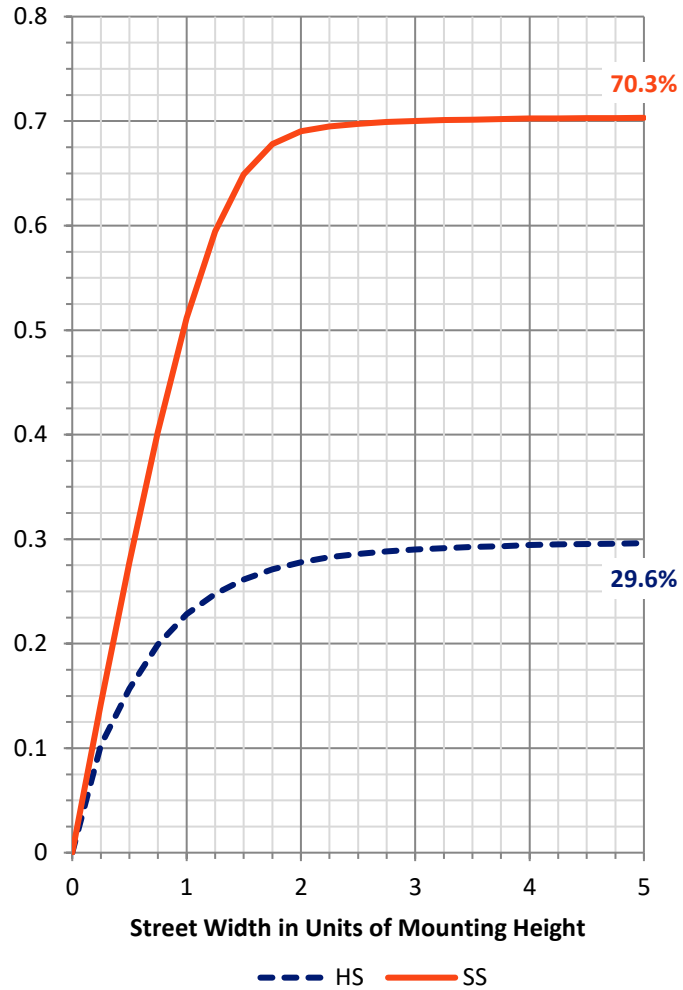
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8046.4	0.0	8046.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	19022.6	0.0	19022.6
	% Fixture	70.3	0.0	70.3
Total	Lumens	27069.0	0.0	27069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.2	2.3
10°-20°	1726.4	6.4
20°-30°	2926.4	10.8
30°-40°	4479.3	16.5
40°-50°	5972.7	22.1
50°-60°	6897.9	25.5
60°-70°	3584.4	13.2
70°-80°	761.9	2.8
80°-90°	98.7	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°	27069.0	100.0
0°-180°	27069.0	100.0

Coefficient of Utilization



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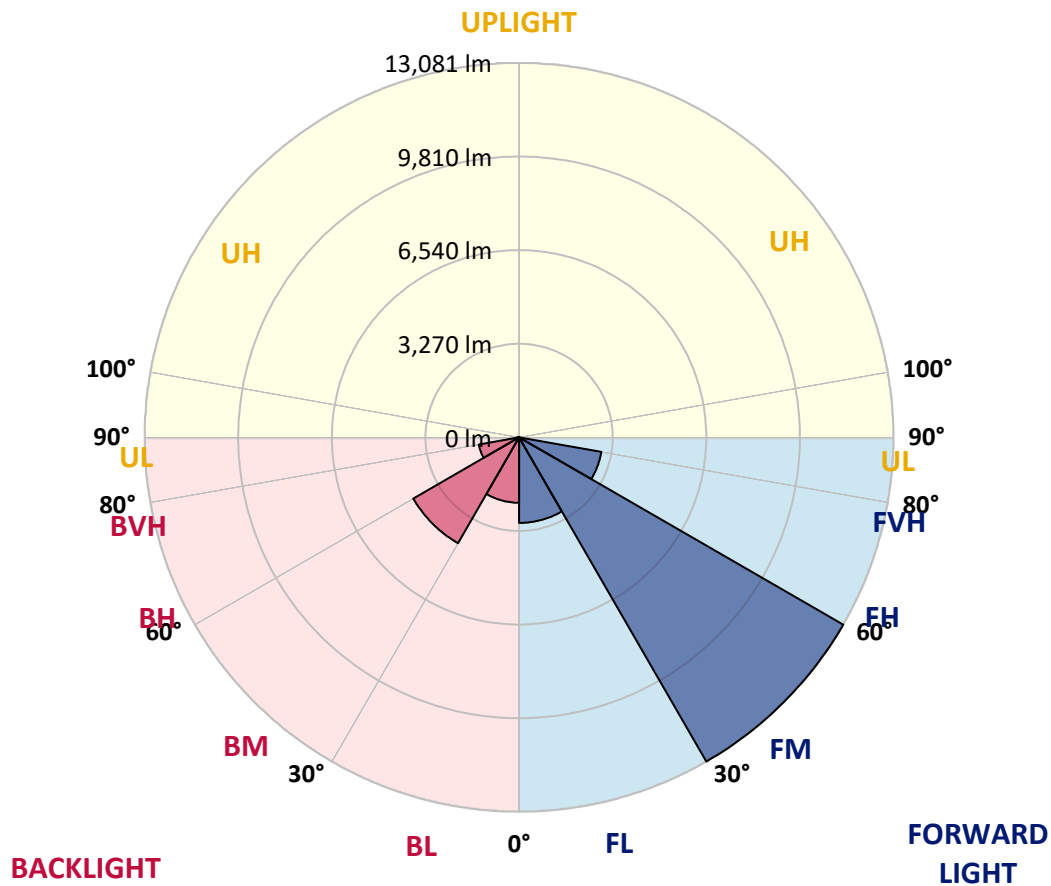
CATALOG NUMBER: GWS-SA4E-760-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2989.0	11.0			
FM (30°-60°)	13080.5	48.3			
FH (60°-80°)	2918.7	10.8			G2/5000
FVH (80°-90°)	34.4	0.1			G1/100
BL (0°-30°)	2285.1	8.4	B3/2500		
BM (30°-60°)	4269.3	15.8	B3/5000		
BH (60°-80°)	1427.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.3	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°	75°	79°	85°
0°	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3
2.5°	6402.9	6389.6	6394.0	6411.8	6478.1	6526.8	6577.7	6624.2	6668.5	6681.8	6692.8
5°	6174.9	6150.6	6157.2	6186.0	6263.5	6345.4	6436.1	6546.8	6653.0	6688.4	6734.9
7.5°	6013.4	6008.9	6020.0	6064.3	6146.2	6223.6	6340.9	6498.1	6681.8	6741.5	6823.4
10°	5798.7	5789.8	5834.1	5924.8	6059.8	6183.8	6323.2	6509.1	6765.9	6854.4	6980.6
12.5°	5628.3	5623.8	5670.3	5796.5	5969.1	6166.1	6358.6	6566.7	6878.7	7000.5	7155.4
15°	5727.9	5707.9	5710.2	5798.7	5953.6	6186.0	6447.2	6670.7	6991.6	7146.5	7345.7
17.5°	6017.8	5982.4	5955.8	5971.3	6059.8	6301.1	6582.2	6810.1	7122.2	7303.7	7547.1
20°	6418.4	6398.5	6325.4	6276.7	6296.7	6509.1	6794.6	7007.1	7292.6	7496.2	7757.4
22.5°	6956.2	6907.5	6807.9	6730.5	6670.7	6836.7	7100.1	7283.8	7529.4	7741.9	8014.1
25°	7622.4	7551.6	7394.4	7272.7	7144.3	7314.8	7549.4	7688.8	7854.8	8051.8	8310.7
27.5°	8301.9	8242.1	8067.3	7903.5	7744.1	7850.4	8129.2	8208.9	8191.2	8335.1	8556.4
30°	9025.6	8950.3	8784.3	8607.3	8401.5	8470.1	8720.2	8760.0	8571.9	8691.4	8841.9
32.5°	9789.2	9716.1	9572.3	9366.4	9134.0	9160.6	9229.2	9266.8	9087.6	9156.2	9271.3
35°	10566.0	10497.4	10351.3	10147.7	9977.3	9815.7	9643.1	9793.6	9689.6	9822.3	9813.5
37.5°	11276.4	11207.8	11117.1	10960.0	10667.8	10349.1	9950.7	10136.6	10298.2	10466.4	10437.6
40°	11756.7	11710.2	11732.4	11708.0	11331.8	10701.0	10101.2	10304.8	10745.3	11033.0	11017.5
42.5°	12170.6	12124.1	12252.5	12345.4	11902.8	11026.4	10174.3	10369.0	11030.8	11480.1	11457.9
45°	12354.3	12341.0	12553.5	12847.8	12425.1	11371.6	10362.4	10501.8	11247.7	11823.1	11739.0
47.5°	12135.2	12181.7	12600.0	13097.9	12858.9	11781.1	10747.5	10782.9	11531.0	12194.9	11958.1
50°	11699.2	11801.0	12365.4	13104.6	13175.4	12243.6	11280.9	11192.3	11911.6	12591.1	12073.2
52.5°	11064.0	11170.2	12090.9	13053.7	13356.9	12779.2	11991.3	11865.2	12391.9	12987.3	12093.1
55°	9605.5	9749.3	11462.4	12938.6	13533.9	13266.1	12792.5	12535.8	13011.6	13531.7	12290.1
57.5°	8332.8	8408.1	9930.8	12427.3	13569.4	13624.7	13363.5	13058.1	13626.9	14120.5	12511.4
60°	6115.2	6132.9	7502.9	10282.7	12482.7	13416.6	13317.1	12863.3	13334.8	13649.0	11497.8
62.5°	3454.9	3457.1	4550.4	6863.3	9324.4	10935.6	10997.6	10597.0	10200.8	10293.8	8003.1
65°	1297.0	1418.7	2078.2	3373.0	5376.0	6456.0	6712.8	6805.7	6146.2	5736.7	4291.5
67.5°	867.6	896.4	1212.9	1735.2	2392.5	2762.1	3089.7	3098.5	2266.4	2020.7	1690.9
70°	661.8	690.5	953.9	1241.6	1212.9	1119.9	1210.6	1177.4	1217.3	1250.5	1285.9
72.5°	493.6	522.3	739.2	876.4	728.2	717.1	812.3	903.0	987.1	1022.5	1077.8
75°	327.6	349.7	498.0	469.2	402.8	475.8	593.1	683.9	732.6	774.6	816.7
77.5°	208.0	223.5	265.6	214.7	223.5	278.9	345.3	427.2	473.6	515.7	537.8
80°	95.2	93.0	90.7	101.8	126.2	163.8	208.0	256.7	292.1	309.9	323.1
82.5°	37.6	42.1	46.5	55.3	68.6	88.5	117.3	150.5	179.3	183.7	194.8
85°	15.5	17.7	19.9	24.3	31.0	39.8	48.7	68.6	86.3	93.0	99.6
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	6.6	11.1	19.9	22.1	24.3
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°	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3	6708.3
2.5°	6752.6	6723.8	6772.5	6805.7	6836.7	6803.5	6792.4	6763.7	6759.2	6759.2	6774.7
5°	6814.6	6794.6	6845.5	6865.5	6863.3	6790.2	6745.9	6688.4	6659.6	6659.6	6664.1
7.5°	6925.2	6914.2	6942.9	6911.9	6841.1	6692.8	6546.8	6425.0	6343.1	6301.1	6314.4
10°	7108.9	7095.6	7071.3	6956.2	6752.6	6444.9	6146.2	5924.8	5792.0	5716.8	5721.2
12.5°	7288.2	7266.1	7179.7	6925.2	6506.9	6017.8	5626.1	5378.2	5232.1	5143.6	5123.6
15°	7485.2	7427.6	7241.7	6765.9	6106.3	5495.5	5086.0	4818.2	4661.1	4608.0	4605.7
17.5°	7673.3	7571.5	7235.1	6482.6	5626.1	4948.8	4537.1	4371.1	4344.6	4368.9	4375.6
20°	7863.6	7699.9	7162.0	6090.8	5055.0	4404.3	4191.9	4260.5	4360.1	4426.5	4442.0
22.5°	8060.6	7806.1	6996.0	5586.2	4453.0	4036.9	4125.5	4276.0	4399.9	4488.4	4497.3
25°	8281.9	7905.7	6748.2	4968.7	3970.5	3935.1	4110.0	4269.3	4402.1	4503.9	4521.6
27.5°	8408.1	7907.9	6400.7	4333.5	3749.2	3895.3	4072.4	4222.9	4355.7	4466.3	4486.2
30°	8532.0	7848.1	5849.6	3817.8	3685.0	3848.8	4008.2	4147.6	4273.8	4382.2	4406.6
32.5°	8706.9	7792.8	5214.4	3521.3	3647.4	3804.6	3935.1	4059.1	4156.5	4205.2	4218.4
35°	8923.8	7722.0	4539.4	3392.9	3623.1	3769.1	3884.2	3950.6	3824.5	3797.9	3826.7
37.5°	9227.0	7655.6	3866.5	3337.6	3607.6	3755.9	3857.7	3687.3	3532.3	3470.4	3492.5
40°	9554.5	7618.0	3410.6	3293.3	3614.2	3769.1	3747.0	3494.7	3271.2	3140.6	3136.2
42.5°	9833.4	7560.4	3118.5	3264.5	3631.9	3820.0	3596.5	3324.3	2992.3	2914.8	2917.0
45°	10021.5	7414.3	2963.5	3233.5	3647.4	3831.1	3525.7	3089.7	2852.9	2804.2	2802.0
47.5°	10099.0	7148.8	2863.9	3184.8	3645.2	3740.4	3381.8	2992.3	2755.5	2742.2	2751.1
50°	10048.1	6712.8	2762.1	3089.7	3592.1	3645.2	3215.8	2906.0	2689.1	2762.1	2815.2
52.5°	9860.0	6148.4	2640.4	2959.1	3496.9	3536.8	3131.7	2852.9	2640.4	2737.8	2779.8
55°	9811.3	5690.2	2485.5	2788.7	3355.3	3344.2	3043.2	2826.3	2607.2	2569.6	2576.2
57.5°	9747.1	5243.2	2228.7	2483.3	2996.7	3014.4	2959.1	2795.3	2520.9	2509.8	2520.9
60°	8467.8	4019.2	1987.5	2142.4	2461.1	2556.3	2863.9	2737.8	2381.4	2335.0	2332.8
62.5°	5530.9	2434.6	1768.4	1868.0	2005.2	2115.9	2611.6	2571.8	2228.7	2200.0	2219.9
65°	2974.6	1735.2	1609.0	1668.8	1744.0	1828.1	2164.5	2290.7	2014.0	1912.2	1914.5
67.5°	1520.5	1476.2	1489.5	1531.6	1589.1	1631.2	1746.2	1856.9	1717.5	1631.2	1628.9
70°	1301.4	1336.8	1356.7	1381.1	1418.7	1412.0	1423.1	1443.0	1432.0	1389.9	1387.7
72.5°	1108.8	1164.2	1168.6	1173.0	1186.3	1155.3	1135.4	1102.2	1104.4	1111.0	1113.3
75°	843.2	896.4	909.6	903.0	916.3	876.4	849.9	816.7	776.8	770.2	774.6
77.5°	548.9	590.9	610.9	606.4	613.1	582.1	568.8	533.4	486.9	469.2	469.2
80°	332.0	356.3	371.8	376.3	382.9	360.8	338.6	307.6	287.7	267.8	267.8
82.5°	201.4	216.9	228.0	228.0	234.6	210.3	192.6	170.4	161.6	143.9	143.9
85°	101.8	112.9	117.3	115.1	110.7	90.7	84.1	73.0	68.6	59.8	59.8
87.5°	24.3	31.0	31.0	22.1	22.1	11.1	6.6	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)