

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: P643341

Luminaire Tested: GWS-SA6E-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643341
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-SAGE-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39595.7 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

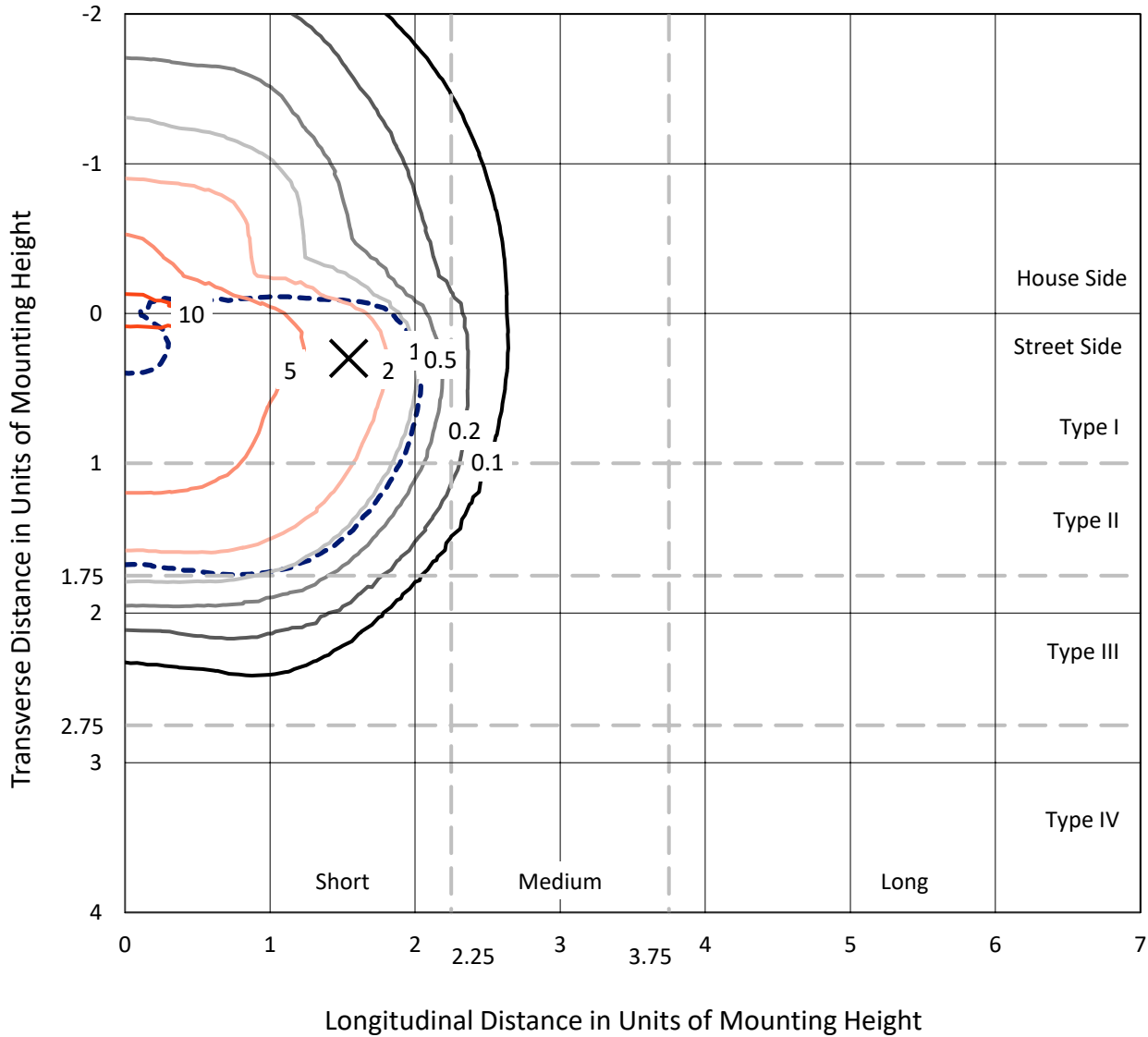
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

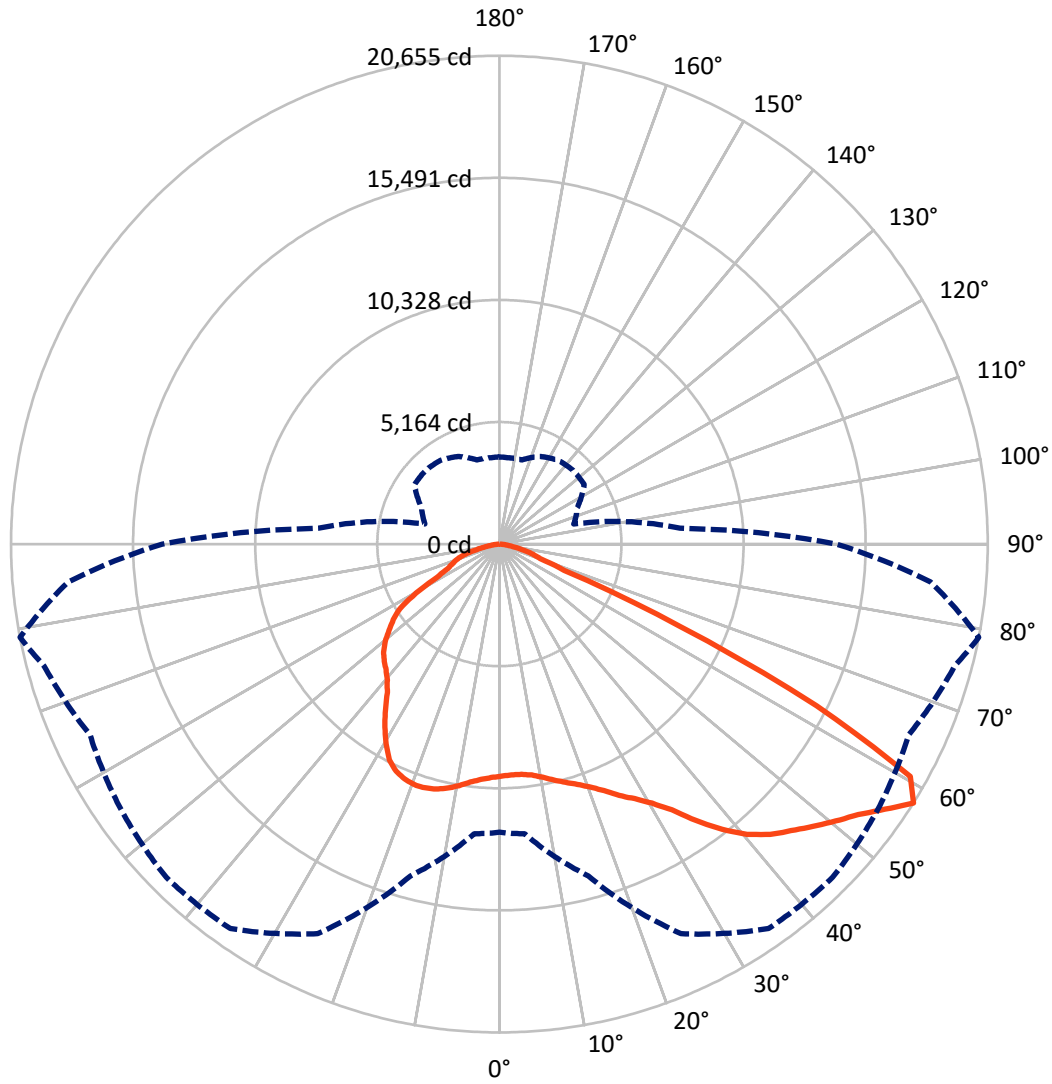
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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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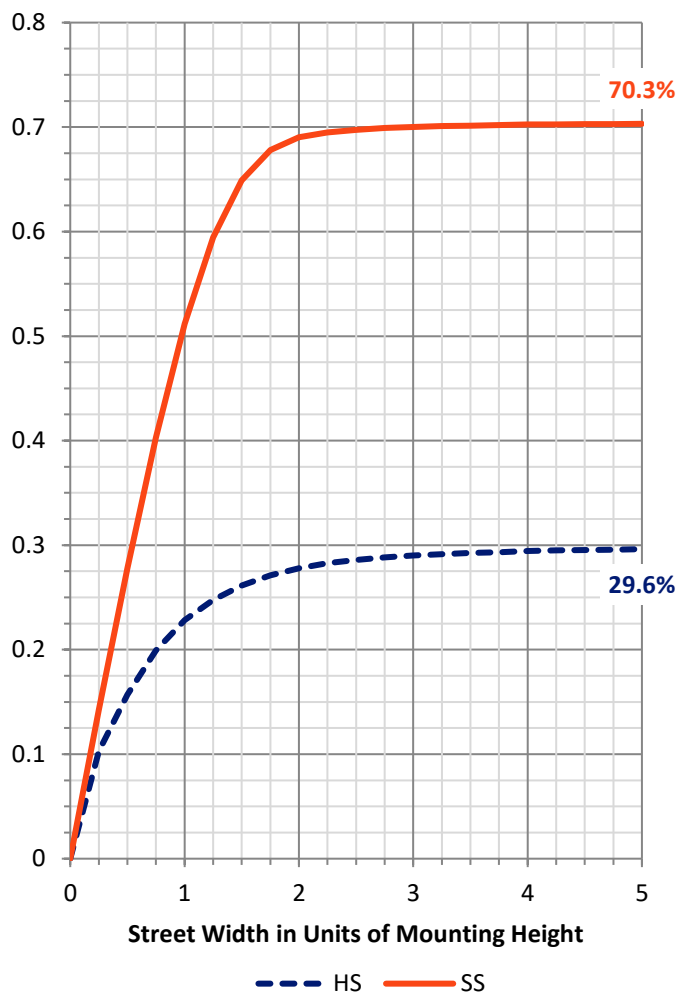
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11770.0	0.0	11770.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	27825.7	0.0	27825.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	39595.7	0.0	39595.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.7	2.3
10°-20°	2525.4	6.4
20°-30°	4280.7	10.8
30°-40°	6552.1	16.5
40°-50°	8736.6	22.1
50°-60°	10090.1	25.5
60°-70°	5243.2	13.2
70°-80°	1114.6	2.8
80°-90°	144.4	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°	39595.7	100.0
0°-180°	39595.7	100.0

Coefficient of Utilization



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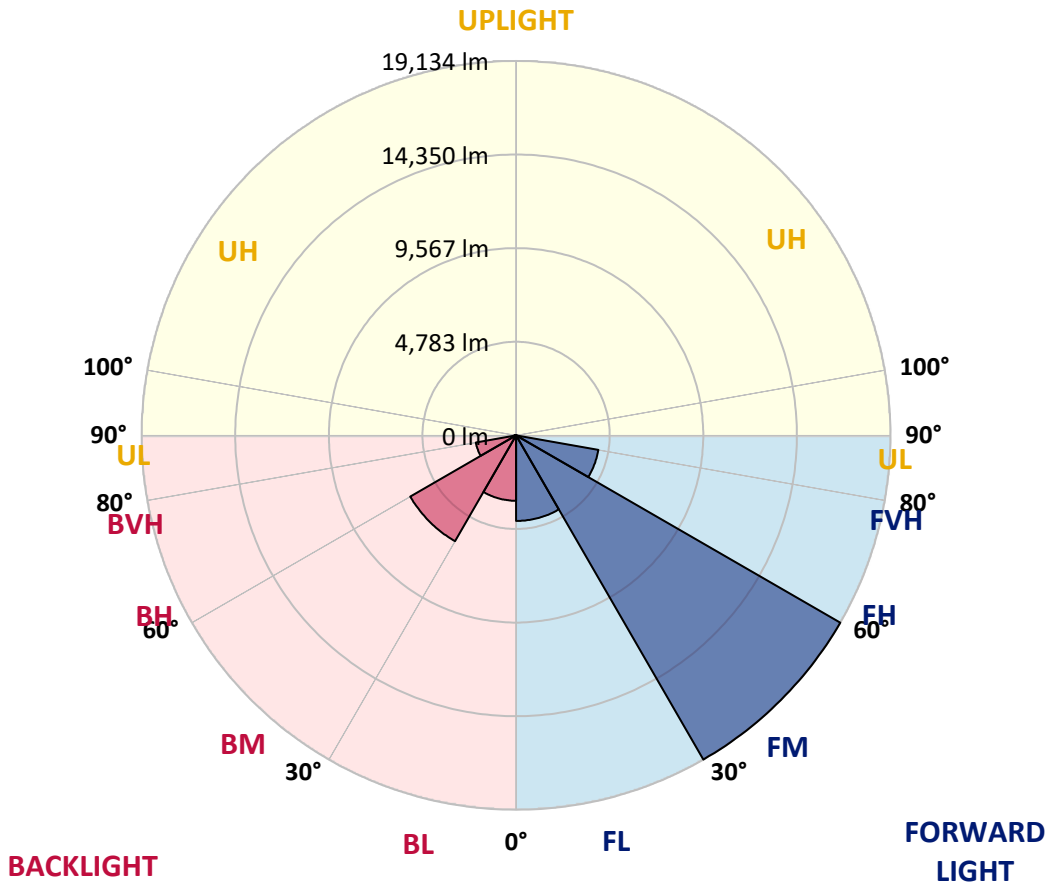
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4372.3	11.0			
FM (30°-60°)	19133.8	48.3			
FH (60°-80°)	4269.4	10.8			G2/5000
FVH (80°-90°)	50.3	0.1			G1/100
BL (0°-30°)	3342.5	8.4	B4/5000		
BM (30°-60°)	6245.1	15.8	B4/8500		
BH (60°-80°)	2088.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	94.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7
2.5°	9366.0	9346.5	9353.0	9378.9	9476.0	9547.3	9621.7	9689.7	9754.5	9773.9	9790.1
5°	9032.5	8996.9	9006.6	9048.7	9162.0	9281.8	9414.5	9576.4	9731.8	9783.6	9851.6
7.5°	8796.2	8789.7	8805.9	8870.6	8990.4	9103.7	9275.3	9505.2	9773.9	9861.3	9981.1
10°	8482.1	8469.2	8533.9	8666.7	8864.2	9045.5	9249.4	9521.4	9896.9	10026.4	10210.9
12.5°	8232.9	8226.4	8294.4	8478.9	8731.4	9019.6	9301.2	9605.5	10062.0	10240.1	10466.7
15°	8378.5	8349.4	8352.6	8482.1	8708.8	9048.7	9430.7	9757.7	10227.1	10453.7	10745.1
17.5°	8802.6	8750.8	8712.0	8734.7	8864.2	9217.0	9628.2	9961.7	10418.1	10683.6	11039.7
20°	9388.6	9359.5	9252.6	9181.4	9210.6	9521.4	9939.0	10249.8	10667.4	10965.3	11347.3
22.5°	10175.3	10104.1	9958.4	9845.1	9757.7	10000.5	10385.8	10654.5	11013.8	11324.6	11722.8
25°	11149.8	11046.2	10816.3	10638.3	10450.5	10699.8	11043.0	11246.9	11489.7	11777.9	12156.6
27.5°	12143.7	12056.3	11800.5	11561.0	11327.9	11483.3	11891.2	12007.7	11981.8	12192.3	12516.0
30°	13202.3	13092.3	12849.5	12590.5	12289.4	12389.7	12755.6	12813.9	12538.7	12713.5	12933.6
32.5°	14319.3	14212.4	14002.0	13700.9	13361.0	13399.8	13500.2	13555.2	13293.0	13393.4	13561.7
35°	15455.6	15355.3	15141.6	14843.7	14594.5	14358.1	14105.6	14325.7	14173.6	14367.8	14354.9
37.5°	16494.8	16394.5	16261.7	16031.9	15604.5	15138.3	14555.6	14827.5	15063.9	15309.9	15267.8
40°	17197.4	17129.4	17161.8	17126.1	16575.8	15653.1	14775.8	15073.6	15717.9	16138.7	16116.1
42.5°	17802.8	17734.8	17922.6	18058.5	17411.0	16129.0	14882.6	15167.5	16135.5	16792.7	16760.3
45°	18071.5	18052.1	18362.9	18793.4	18175.1	16634.1	15157.8	15361.7	16452.8	17294.5	17171.5
47.5°	17751.0	17819.0	18430.8	19159.3	18809.6	17233.0	15721.1	15772.9	16867.1	17838.4	17492.0
50°	17113.2	17262.1	18087.7	19169.0	19272.6	17909.6	16501.3	16371.8	17424.0	18417.9	17660.3
52.5°	16184.0	16339.4	17686.2	19094.5	19538.0	18693.1	17540.5	17356.0	18126.5	18997.4	17689.5
55°	14050.6	14261.0	16766.8	18926.2	19797.0	19405.3	18712.5	18337.0	19033.0	19793.8	17977.6
57.5°	12189.0	12299.1	14526.5	18178.3	19848.8	19929.8	19547.8	19101.0	19933.0	20655.0	18301.3
60°	8945.1	8971.0	10975.0	15041.2	18259.3	19625.5	19479.8	18816.1	19505.7	19965.4	16818.6
62.5°	5053.7	5056.9	6656.2	10039.4	13639.4	15996.3	16086.9	15500.9	14921.4	15057.4	11706.6
65°	1897.1	2075.2	3040.0	4933.9	7863.8	9443.7	9819.2	9955.2	8990.4	8391.5	6277.4
67.5°	1269.1	1311.2	1774.1	2538.2	3499.7	4040.3	4519.5	4532.4	3315.2	2955.8	2473.4
70°	968.0	1010.1	1395.3	1816.2	1774.1	1638.2	1770.9	1722.3	1780.6	1829.2	1881.0
72.5°	722.0	764.0	1081.3	1282.0	1065.1	1048.9	1188.1	1320.9	1443.9	1495.7	1576.6
75°	479.1	511.5	728.4	686.3	589.2	696.1	867.6	1000.4	1071.6	1133.1	1194.6
77.5°	304.3	327.0	388.5	314.0	327.0	407.9	505.0	624.8	692.8	754.3	786.7
80°	139.2	136.0	132.7	148.9	184.5	239.6	304.3	375.5	427.3	453.2	472.7
82.5°	55.0	61.5	68.0	80.9	100.4	129.5	171.6	220.1	262.2	268.7	284.9
85°	22.7	25.9	29.1	35.6	45.3	58.3	71.2	100.4	126.3	136.0	145.7
87.5°	0.0	0.0	0.0	0.0	3.2	6.5	9.7	16.2	29.1	32.4	35.6
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°	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7	9812.7
2.5°	9877.5	9835.4	9906.6	9955.2	10000.5	9951.9	9935.8	9893.7	9887.2	9887.2	9909.9
5°	9968.1	9939.0	10013.5	10042.6	10039.4	9932.5	9867.8	9783.6	9741.5	9741.5	9748.0
7.5°	10130.0	10113.8	10155.9	10110.6	10007.0	9790.1	9576.4	9398.3	9278.5	9217.0	9236.5
10°	10398.7	10379.3	10343.7	10175.3	9877.5	9427.5	8990.4	8666.7	8472.4	8362.3	8368.8
12.5°	10660.9	10628.6	10502.3	10130.0	9518.1	8802.6	8229.6	7867.0	7653.3	7523.8	7494.7
15°	10949.1	10864.9	10593.0	9896.9	8932.1	8038.6	7439.7	7047.9	6818.1	6740.4	6737.1
17.5°	11224.3	11075.3	10583.2	9482.5	8229.6	7239.0	6636.8	6394.0	6355.1	6390.7	6400.5
20°	11502.7	11263.1	10476.4	8909.5	7394.4	6442.5	6131.7	6232.1	6377.8	6474.9	6497.6
22.5°	11790.8	11418.5	10233.6	8171.3	6513.8	5905.1	6034.6	6254.8	6436.1	6565.6	6578.5
25°	12114.6	11564.2	9871.0	7268.1	5808.0	5756.2	6012.0	6245.1	6439.3	6588.2	6614.1
27.5°	12299.1	11567.4	9362.7	6338.9	5484.3	5697.9	5956.9	6177.1	6371.3	6533.2	6562.3
30°	12480.4	11480.0	8556.6	5584.6	5390.4	5629.9	5863.0	6067.0	6251.5	6410.2	6445.8
32.5°	12736.2	11399.1	7627.4	5150.8	5335.3	5565.2	5756.2	5937.5	6079.9	6151.2	6170.6
35°	13053.4	11295.5	6640.0	4963.0	5299.7	5513.4	5681.7	5778.9	5594.3	5555.5	5597.6
37.5°	13497.0	11198.4	5655.8	4882.1	5277.1	5494.0	5642.9	5393.6	5167.0	5076.3	5108.7
40°	13976.1	11143.3	4988.9	4817.3	5286.8	5513.4	5481.0	5111.9	4785.0	4594.0	4587.5
42.5°	14384.0	11059.2	4561.6	4775.2	5312.7	5587.8	5260.9	4862.7	4377.0	4263.7	4267.0
45°	14659.2	10845.5	4335.0	4729.9	5335.3	5604.0	5157.3	4519.5	4173.1	4101.9	4098.6
47.5°	14772.5	10457.0	4189.3	4658.7	5332.1	5471.3	4946.8	4377.0	4030.6	4011.2	4024.2
50°	14698.1	9819.2	4040.3	4519.5	5254.4	5332.1	4704.0	4250.8	3933.5	4040.3	4118.0
52.5°	14422.9	8993.7	3862.3	4328.5	5115.2	5173.5	4581.0	4173.1	3862.3	4004.7	4066.2
55°	14351.6	8323.5	3635.7	4079.2	4908.0	4891.8	4451.5	4134.2	3813.7	3758.7	3768.4
57.5°	14257.8	7669.5	3260.1	3632.4	4383.5	4409.4	4328.5	4088.9	3687.5	3671.3	3687.5
60°	12386.5	5879.2	2907.2	3133.9	3600.1	3739.3	4189.3	4004.7	3483.5	3415.5	3412.3
62.5°	8090.4	3561.2	2586.7	2732.4	2933.1	3095.0	3820.2	3761.9	3260.1	3218.0	3247.2
65°	4351.1	2538.2	2353.6	2441.0	2551.1	2674.1	3166.2	3350.8	2946.1	2797.2	2800.4
67.5°	2224.1	2159.4	2178.8	2240.3	2324.5	2386.0	2554.4	2716.2	2512.3	2386.0	2382.8
70°	1903.6	1955.4	1984.6	2020.2	2075.2	2065.5	2081.7	2110.8	2094.6	2033.1	2029.9
72.5°	1622.0	1702.9	1709.4	1715.9	1735.3	1690.0	1660.8	1612.3	1615.5	1625.2	1628.4
75°	1233.5	1311.2	1330.6	1320.9	1340.3	1282.0	1243.2	1194.6	1136.3	1126.6	1133.1
77.5°	802.9	864.4	893.5	887.1	896.8	851.5	832.0	780.2	712.2	686.3	686.3
80°	485.6	521.2	543.9	550.4	560.1	527.7	495.3	450.0	420.9	391.7	391.7
82.5°	294.6	317.3	333.5	333.5	343.2	307.6	281.7	249.3	236.3	210.4	210.4
85°	148.9	165.1	171.6	168.3	161.9	132.7	123.0	106.8	100.4	87.4	87.4
87.5°	35.6	45.3	45.3	32.4	32.4	16.2	9.7	3.2	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)