

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: P641196

Luminaire Tested: GWS-SA5F-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641196
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-SA5F-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36091.9 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

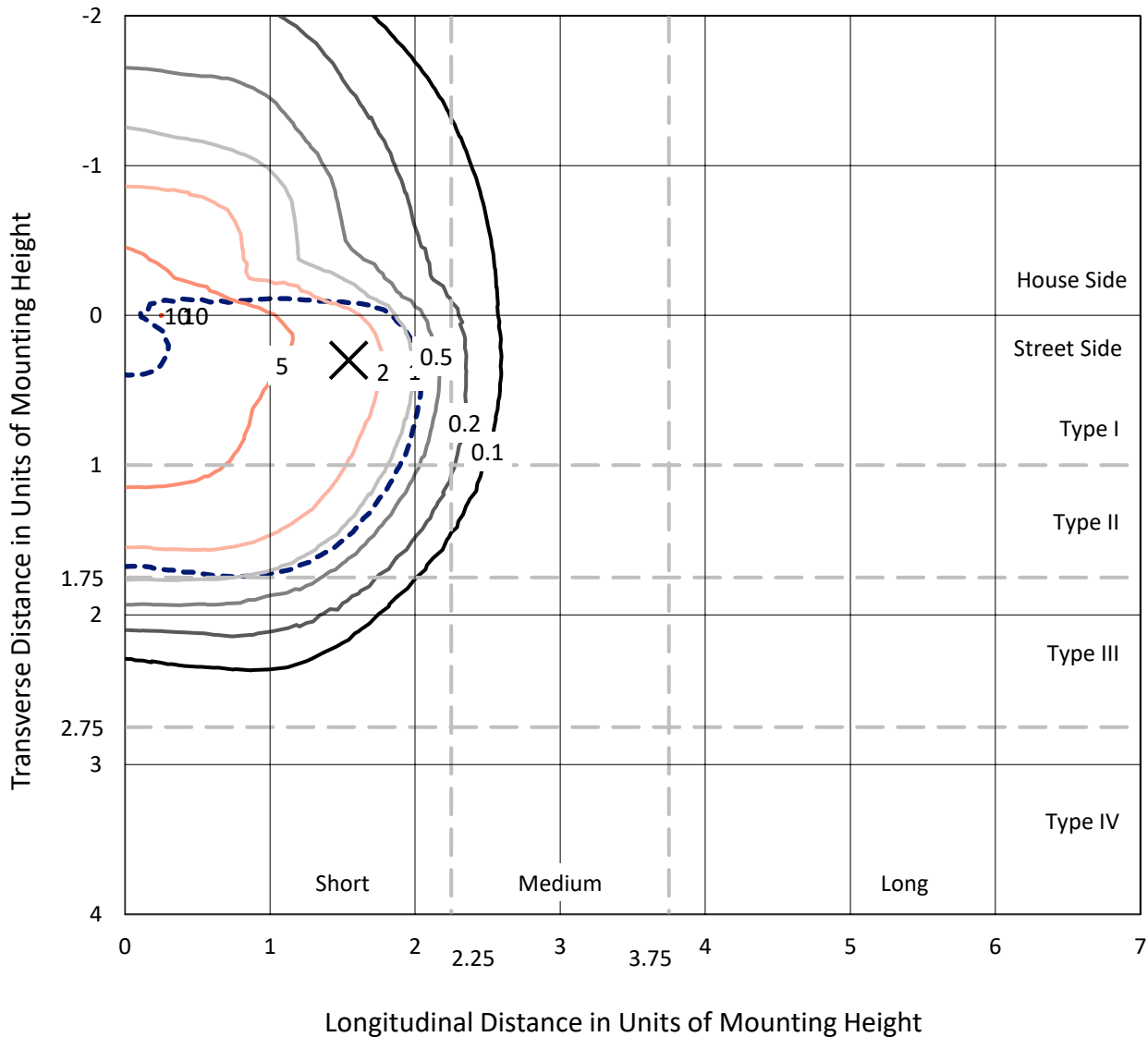
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

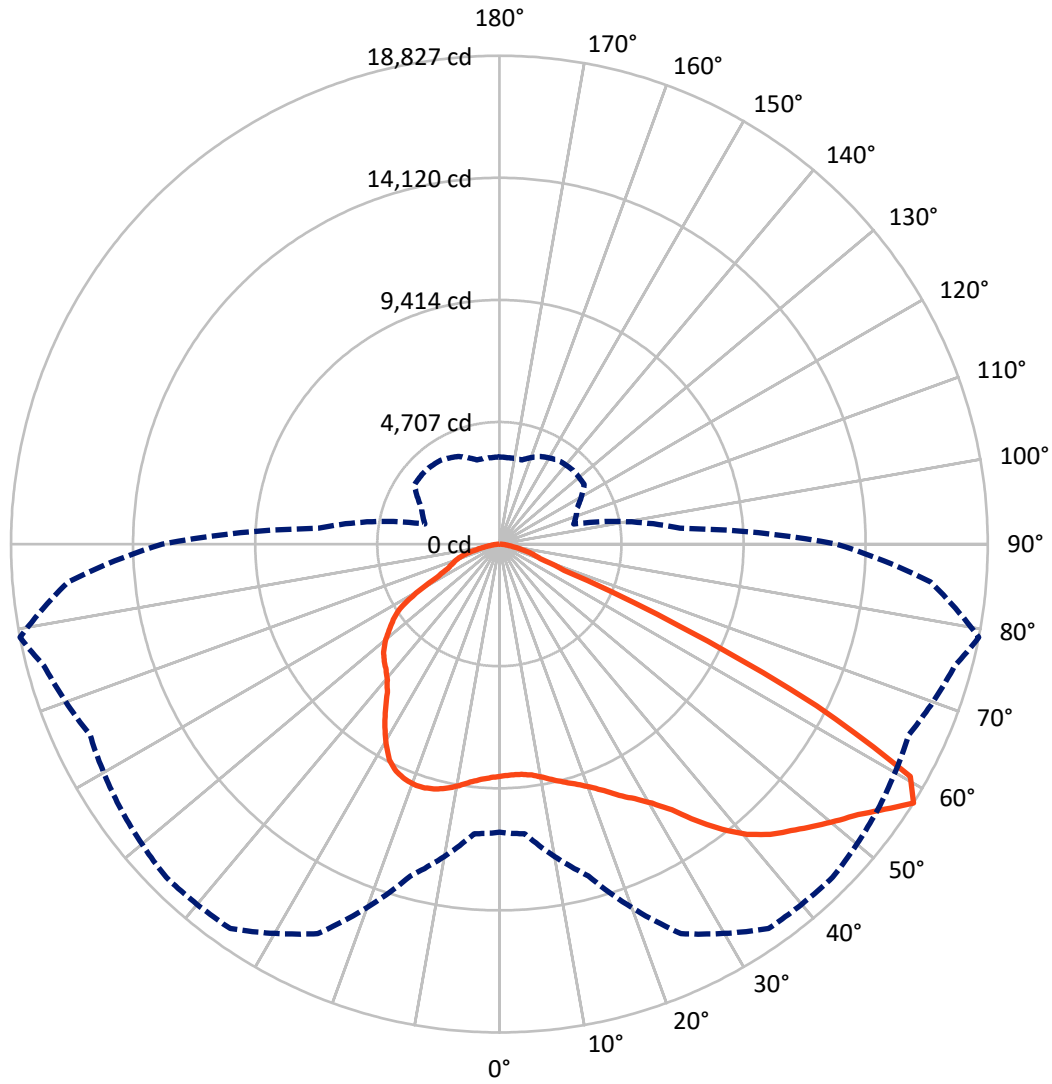
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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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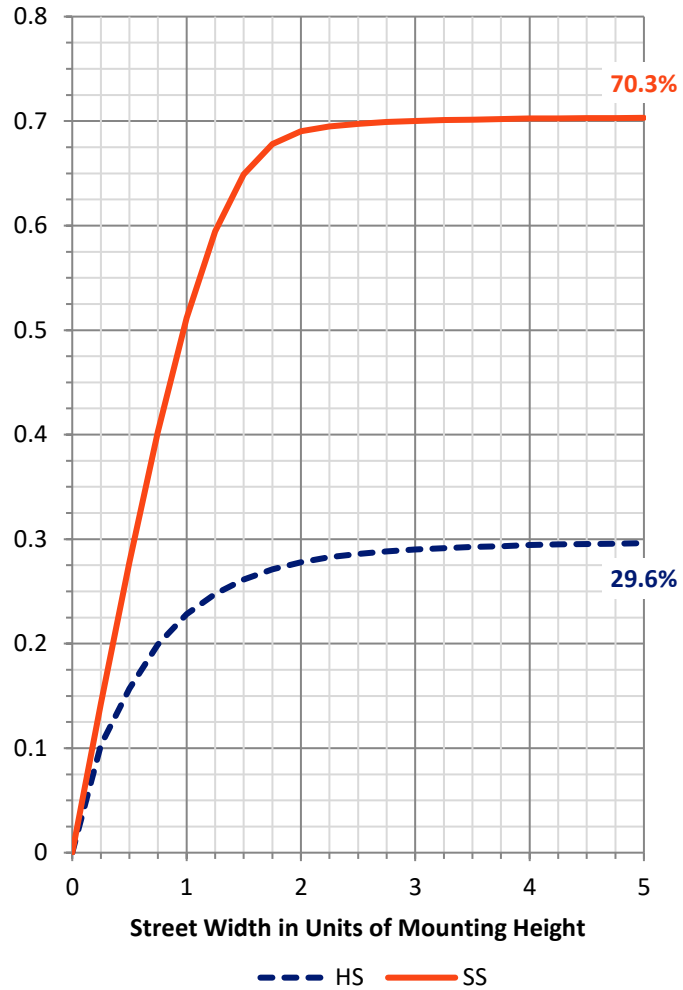
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10728.5	0.0	10728.5
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	25363.4	0.0	25363.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	36091.9	0.0	36091.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.3	2.3
10°-20°	2301.9	6.4
20°-30°	3901.9	10.8
30°-40°	5972.3	16.5
40°-50°	7963.5	22.1
50°-60°	9197.2	25.5
60°-70°	4779.2	13.2
70°-80°	1015.9	2.8
80°-90°	131.6	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°	36091.9	100.0
0°-180°	36091.9	100.0

Coefficient of Utilization



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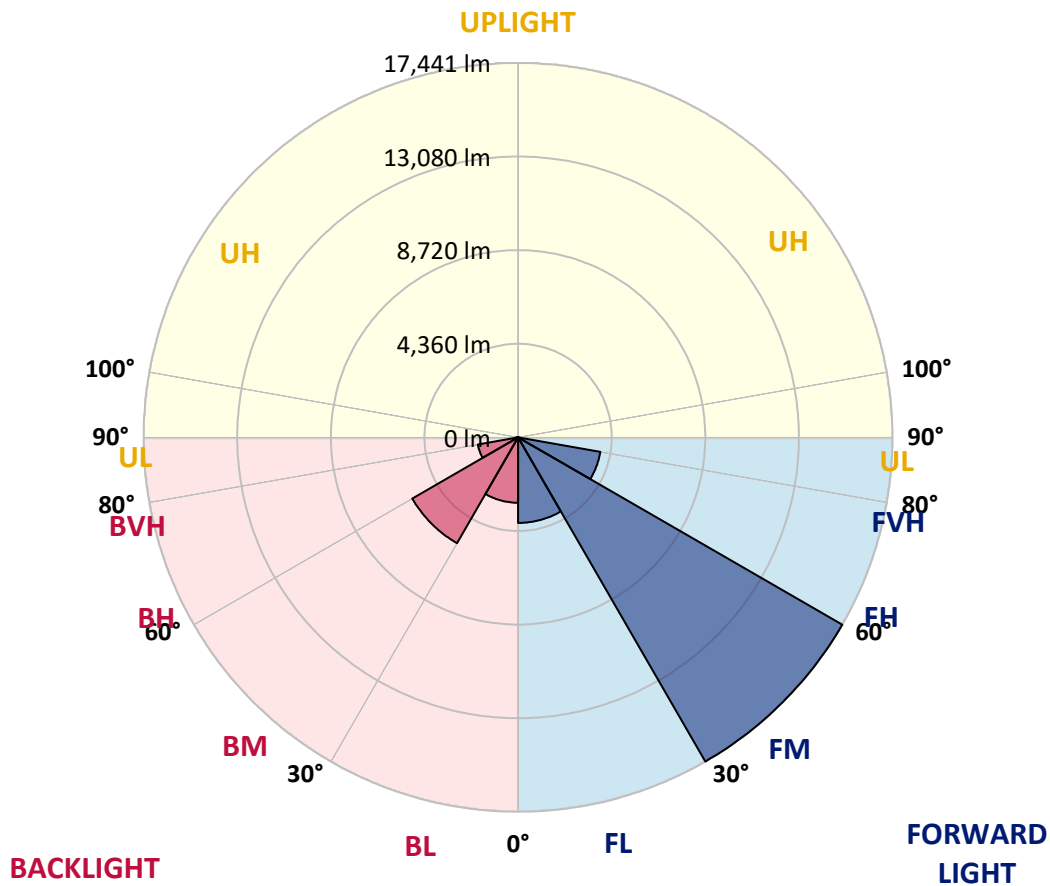
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3985.4	11.0			
FM (30°-60°)	17440.6	48.3			
FH (60°-80°)	3891.6	10.8			G2/5000
FVH (80°-90°)	45.9	0.1			G1/100
BL (0°-30°)	3046.8	8.4	B4/5000		
BM (30°-60°)	5692.4	15.8	B4/8500		
BH (60°-80°)	1903.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	85.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4
2.5°	8537.2	8519.5	8525.4	8549.0	8637.5	8702.4	8770.3	8832.3	8891.3	8909.0	8923.8
5°	8233.2	8200.8	8209.6	8248.0	8351.3	8460.4	8581.4	8729.0	8870.6	8917.8	8979.8
7.5°	8017.8	8011.9	8026.7	8085.7	8194.9	8298.1	8454.5	8664.1	8909.0	8988.7	9097.9
10°	7731.6	7719.8	7778.8	7899.8	8079.8	8245.0	8430.9	8678.8	9021.1	9139.2	9307.4
12.5°	7504.3	7498.4	7560.4	7728.6	7958.8	8221.4	8478.2	8755.5	9171.6	9333.9	9540.5
15°	7637.1	7610.6	7613.5	7731.6	7938.1	8248.0	8596.2	8894.2	9322.1	9528.7	9794.3
17.5°	8023.7	7976.5	7941.1	7961.7	8079.8	8401.4	8776.2	9080.2	9496.2	9738.2	10062.8
20°	8557.8	8531.3	8433.9	8369.0	8395.5	8678.8	9059.5	9342.8	9723.5	9995.0	10343.2
22.5°	9274.9	9210.0	9077.2	8973.9	8894.2	9115.6	9466.7	9711.7	10039.2	10322.5	10685.5
25°	10163.2	10068.7	9859.2	9696.9	9525.7	9753.0	10065.8	10251.7	10473.0	10735.6	11080.9
27.5°	11069.1	10989.4	10756.3	10537.9	10325.5	10467.1	10838.9	10945.2	10921.6	11113.4	11408.5
30°	12034.1	11933.7	11712.4	11476.3	11201.9	11293.4	11626.8	11680.0	11429.1	11588.5	11789.1
32.5°	13052.2	12954.8	12763.0	12488.5	12178.7	12214.1	12305.6	12355.7	12116.7	12208.2	12361.6
35°	14088.0	13996.5	13801.7	13530.2	13303.0	13087.6	12857.4	13058.1	12919.4	13096.4	13084.6
37.5°	15035.2	14943.7	14822.8	14613.2	14223.7	13798.8	13267.6	13515.5	13730.9	13955.2	13916.8
40°	15675.6	15613.6	15643.1	15610.7	15109.0	14268.0	13468.3	13739.7	14327.0	14710.6	14690.0
42.5°	16227.4	16165.4	16336.6	16460.5	15870.3	14701.8	13565.6	13825.3	14707.7	15306.7	15277.2
45°	16472.3	16454.6	16737.9	17130.4	16566.8	15162.1	13816.5	14002.4	14996.9	15764.1	15652.0
47.5°	16180.2	16242.2	16799.9	17463.9	17145.2	15708.0	14329.9	14377.2	15374.6	16259.9	15944.1
50°	15598.9	15734.6	16487.1	17472.7	17567.2	16324.8	15041.1	14923.1	15882.2	16788.1	16097.6
52.5°	14751.9	14893.6	16121.2	17404.9	17809.1	17038.9	15988.4	15820.2	16522.5	17316.3	16124.1
55°	12807.2	12999.0	15283.1	17251.4	18045.2	17688.1	17056.6	16714.3	17348.8	18042.3	16386.8
57.5°	11110.4	11210.8	13241.0	16569.7	18092.4	18166.2	17818.0	17410.8	18169.2	18827.2	16681.9
60°	8153.5	8177.2	10003.8	13710.2	16643.5	17888.8	17756.0	17151.1	17779.6	18198.7	15330.3
62.5°	4606.5	4609.4	6067.2	9151.0	12432.5	14580.8	14663.4	14129.3	13601.0	13725.0	10670.7
65°	1729.3	1891.6	2771.0	4497.3	7167.9	8608.0	8950.3	9074.3	8194.9	7648.9	5721.9
67.5°	1156.8	1195.1	1617.1	2313.6	3190.0	3682.8	4119.6	4131.4	3021.8	2694.2	2254.5
70°	882.3	920.7	1271.9	1655.5	1617.1	1493.2	1614.2	1569.9	1623.0	1667.3	1714.5
72.5°	658.1	696.4	985.6	1168.6	970.9	956.1	1083.0	1204.0	1316.1	1363.4	1437.1
75°	436.7	466.3	664.0	625.6	537.1	634.5	790.9	911.9	976.8	1032.8	1088.9
77.5°	277.4	298.0	354.1	286.2	298.0	371.8	460.4	569.5	631.5	687.6	717.1
80°	126.9	123.9	121.0	135.7	168.2	218.4	277.4	342.3	389.5	413.1	430.8
82.5°	50.2	56.1	62.0	73.8	91.5	118.0	156.4	200.7	239.0	244.9	259.7
85°	20.7	23.6	26.6	32.5	41.3	53.1	64.9	91.5	115.1	123.9	132.8
87.5°	0.0	0.0	0.0	0.0	3.0	5.9	8.9	14.8	26.6	29.5	32.5
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°	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4	8944.4
2.5°	9003.4	8965.1	9030.0	9074.3	9115.6	9071.3	9056.5	9018.2	9012.3	9012.3	9032.9
5°	9086.1	9059.5	9127.4	9153.9	9151.0	9053.6	8994.6	8917.8	8879.5	8879.5	8885.4
7.5°	9233.6	9218.8	9257.2	9215.9	9121.5	8923.8	8729.0	8566.7	8457.5	8401.4	8419.1
10°	9478.5	9460.8	9428.4	9274.9	9003.4	8593.2	8194.9	7899.8	7722.7	7622.4	7628.3
12.5°	9717.6	9688.1	9573.0	9233.6	8675.9	8023.7	7501.4	7170.9	6976.1	6858.1	6831.5
15°	9980.2	9903.5	9655.6	9021.1	8141.7	7327.3	6781.3	6424.3	6214.8	6143.9	6141.0
17.5°	10231.0	10095.3	9646.7	8643.4	7501.4	6598.4	6049.5	5828.2	5792.8	5825.2	5834.1
20°	10484.8	10266.4	9549.4	8121.1	6740.0	5872.4	5589.1	5680.6	5813.4	5902.0	5922.6
22.5°	10747.5	10408.1	9328.0	7448.3	5937.4	5382.6	5500.6	5701.3	5866.5	5984.6	5996.4
25°	11042.6	10540.9	8997.5	6624.9	5294.1	5246.8	5480.0	5692.4	5869.5	6005.2	6028.8
27.5°	11210.8	10543.8	8534.2	5778.0	4999.0	5193.7	5429.8	5630.5	5807.5	5955.1	5981.6
30°	11376.0	10464.2	7799.4	5090.4	4913.4	5131.7	5344.2	5530.1	5698.3	5842.9	5875.4
32.5°	11609.1	10390.4	6952.5	4695.0	4863.2	5072.7	5246.8	5412.1	5541.9	5606.9	5624.6
35°	11898.3	10296.0	6052.5	4523.8	4830.7	5025.5	5179.0	5267.5	5099.3	5063.9	5102.2
37.5°	12302.6	10207.4	5155.4	4450.1	4810.1	5007.8	5143.6	4916.3	4709.8	4627.1	4656.6
40°	12739.4	10157.3	4547.5	4391.1	4818.9	5025.5	4996.0	4659.6	4361.5	4187.4	4181.5
42.5°	13111.2	10080.5	4157.9	4352.7	4842.6	5093.4	4795.3	4432.4	3989.7	3886.4	3889.4
45°	13362.0	9885.8	3951.4	4311.4	4863.2	5108.1	4700.9	4119.6	3803.8	3738.9	3735.9
47.5°	13465.3	9531.7	3818.6	4246.5	4860.3	4987.1	4509.1	3989.7	3674.0	3656.3	3668.1
50°	13397.4	8950.3	3682.8	4119.6	4789.4	4860.3	4287.8	3874.6	3585.4	3682.8	3753.6
52.5°	13146.6	8197.8	3520.5	3945.5	4662.5	4715.7	4175.6	3803.8	3520.5	3650.4	3706.4
55°	13081.7	7587.0	3313.9	3718.2	4473.7	4458.9	4057.6	3768.4	3476.2	3426.1	3434.9
57.5°	12996.1	6990.9	2971.6	3311.0	3995.6	4019.2	3945.5	3727.1	3361.2	3346.4	3361.2
60°	11290.4	5359.0	2650.0	2856.5	3281.5	3408.4	3818.6	3650.4	3175.2	3113.3	3110.3
62.5°	7374.5	3246.1	2357.8	2490.6	2673.6	2821.1	3482.2	3429.0	2971.6	2933.3	2959.8
65°	3966.1	2313.6	2145.4	2225.0	2325.4	2437.5	2886.1	3054.3	2685.4	2549.6	2552.6
67.5°	2027.3	1968.3	1986.0	2042.1	2118.8	2174.9	2328.3	2475.9	2290.0	2174.9	2171.9
70°	1735.2	1782.4	1808.9	1841.4	1891.6	1882.7	1897.5	1924.0	1909.3	1853.2	1850.3
72.5°	1478.4	1552.2	1558.1	1564.0	1581.7	1540.4	1513.9	1469.6	1472.5	1481.4	1484.3
75°	1124.3	1195.1	1212.9	1204.0	1221.7	1168.6	1133.2	1088.9	1035.8	1026.9	1032.8
77.5°	731.8	787.9	814.5	808.6	817.4	776.1	758.4	711.2	649.2	625.6	625.6
80°	442.6	475.1	495.8	501.7	510.5	481.0	451.5	410.2	383.6	357.1	357.1
82.5°	268.5	289.2	304.0	304.0	312.8	280.3	256.7	227.2	215.4	191.8	191.8
85°	135.7	150.5	156.4	153.5	147.5	121.0	112.1	97.4	91.5	79.7	79.7
87.5°	32.5	41.3	41.3	29.5	29.5	14.8	8.9	3.0	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)