

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: P638727

Luminaire Tested: GWS-SA4F-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33270.8 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

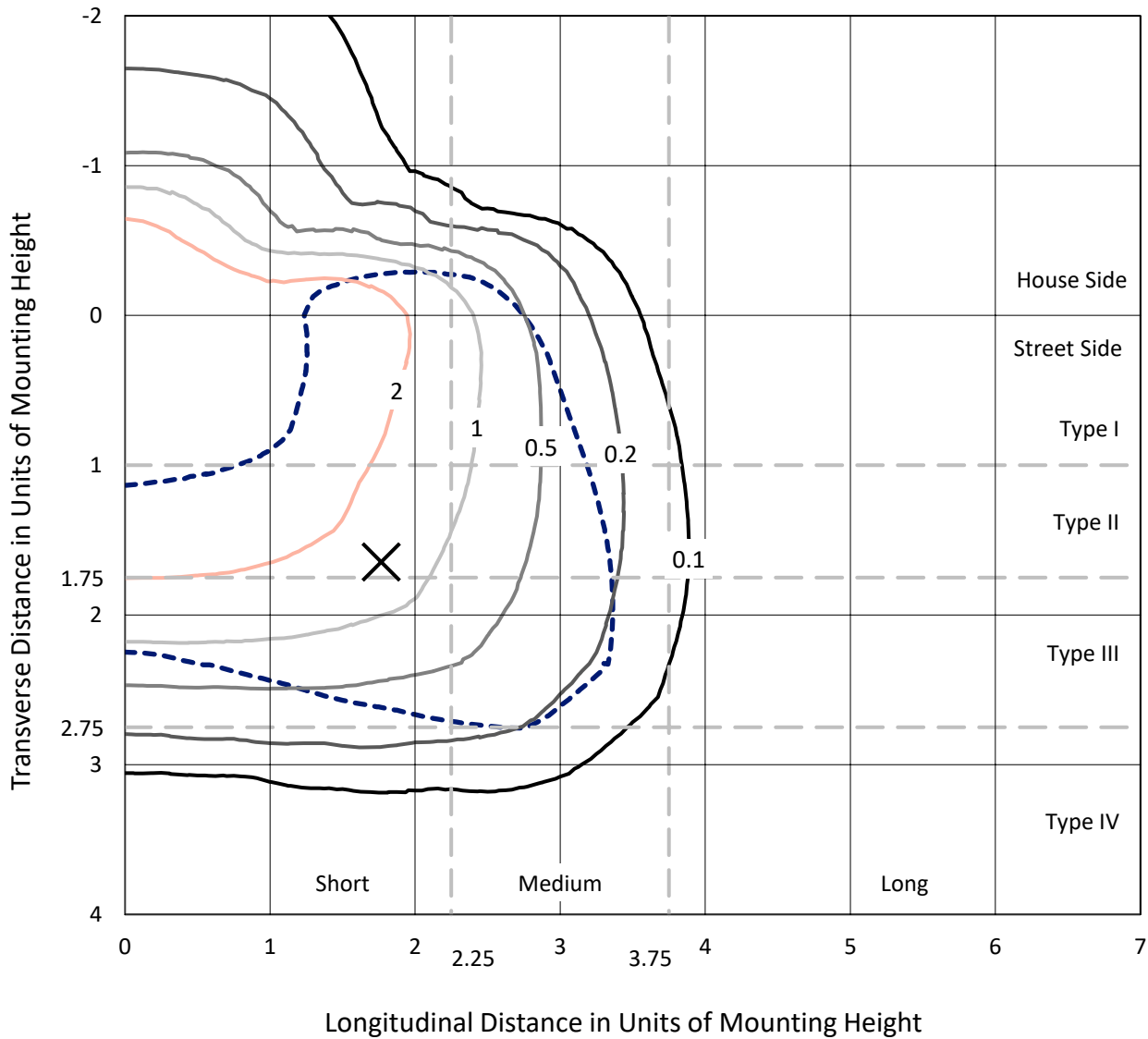
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

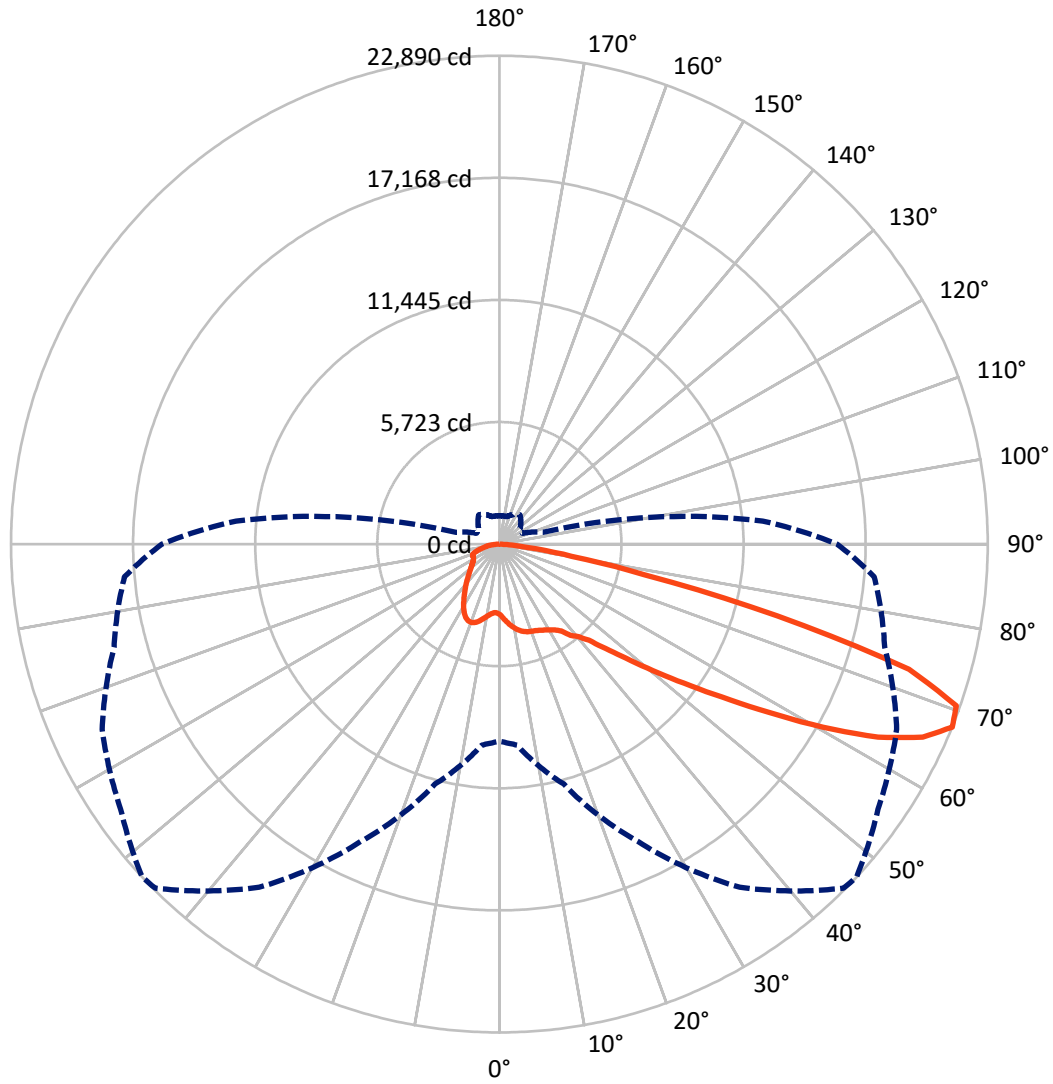
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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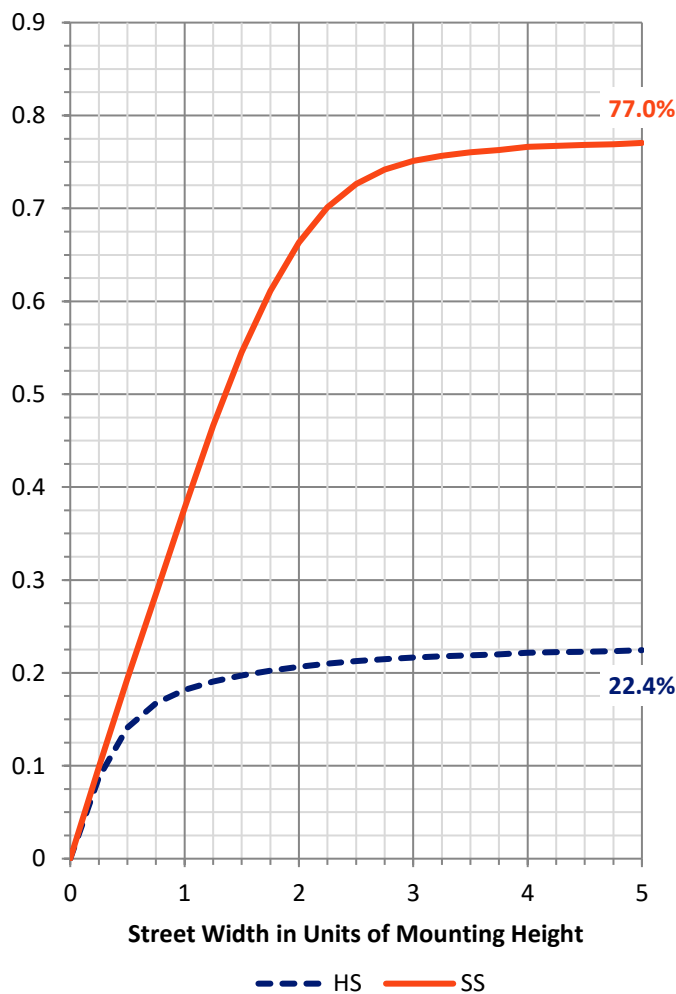
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7582.7	0.0	7582.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	25688.1	0.0	25688.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	33270.8	0.0	33270.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.1	1.0
10°-20°	1123.0	3.4
20°-30°	1908.8	5.7
30°-40°	2796.3	8.4
40°-50°	4260.4	12.8
50°-60°	7622.8	22.9
60°-70°	10171.8	30.6
70°-80°	4599.9	13.8
80°-90°	450.7	1.4
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°	33270.8	100.0
0°-180°	33270.8	100.0

Coefficient of Utilization



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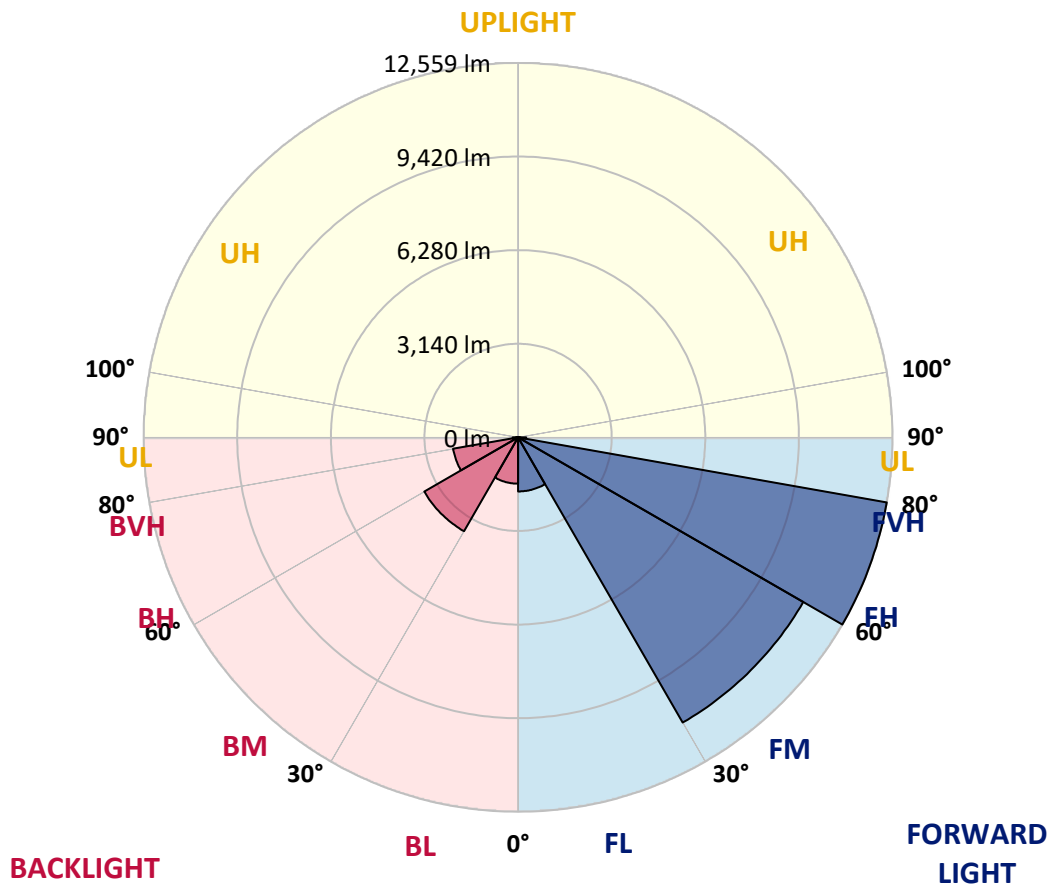
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.5	5.5			
FM (30°-60°)	11046.2	33.2			
FH (60°-80°)	12559.4	37.7			G5
FVH (80°-90°)	268.1	0.8			G3/500
BL (0°-30°)	1554.5	4.7	B3/2500		
BM (30°-60°)	3633.2	10.9	B3/5000		
BH (60°-80°)	2212.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	182.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2
2.5°	3517.1	3529.1	3526.7	3507.5	3495.5	3473.8	3476.2	3442.5	3392.0	3358.3	3319.8
5°	3827.4	3846.7	3822.6	3791.4	3743.2	3673.5	3666.3	3589.3	3493.0	3425.7	3355.9
7.5°	4096.9	4108.9	4080.0	4027.1	3957.3	3863.5	3846.7	3755.3	3635.0	3529.1	3428.1
10°	4306.2	4320.6	4282.1	4212.3	4120.9	4027.1	4015.1	3921.3	3793.8	3668.7	3541.2
12.5°	4484.2	4489.0	4448.1	4354.3	4255.7	4159.4	4147.4	4060.8	3942.9	3815.4	3675.9
15°	4587.6	4590.0	4539.5	4436.1	4342.3	4258.1	4250.8	4176.3	4068.0	3947.7	3798.6
17.5°	4580.4	4585.2	4549.1	4457.7	4375.9	4325.4	4318.2	4270.1	4185.9	4077.6	3928.5
20°	4491.4	4496.2	4472.2	4412.0	4368.7	4354.3	4356.7	4342.3	4291.7	4202.7	4051.2
22.5°	4421.6	4428.9	4407.2	4363.9	4359.1	4392.8	4400.0	4407.2	4383.2	4303.8	4157.0
25°	4455.3	4467.4	4433.7	4373.5	4383.2	4457.7	4472.2	4496.2	4477.0	4409.6	4282.1
27.5°	4688.7	4695.9	4609.3	4486.6	4457.7	4537.1	4558.8	4597.3	4582.8	4520.3	4421.6
30°	5230.0	5225.1	5039.9	4739.2	4618.9	4650.2	4667.0	4722.4	4727.2	4686.3	4592.4
32.5°	5992.6	5968.5	5682.2	5203.5	4854.7	4777.7	4796.9	4871.5	4926.8	4883.5	4756.0
35°	6798.5	6776.8	6461.7	5901.1	5290.1	5023.1	5001.4	5059.1	5143.3	5023.1	4840.2
37.5°	7565.9	7532.2	7209.8	6517.0	5826.6	5453.7	5422.4	5364.7	5314.2	5083.2	4943.7
40°	8417.5	8379.0	8097.5	7313.3	6418.4	5783.3	5703.9	5475.3	5429.6	5282.9	5213.1
42.5°	9326.8	9326.8	9093.5	8321.3	7132.8	6254.8	6151.3	5807.3	5855.4	5759.2	5677.4
45°	10236.2	10262.6	10077.4	9336.4	8087.9	7144.9	6978.9	6490.5	6606.0	6562.7	6521.8
47.5°	11010.8	11061.3	11025.2	10373.3	9257.1	8227.4	7974.8	7467.2	7715.0	7818.5	7933.9
50°	11845.6	11900.9	11864.8	11607.4	10625.9	9538.5	9312.4	8788.0	9213.8	9524.1	9901.8
52.5°	13084.5	13163.9	12863.2	12764.5	12288.2	11027.6	10825.6	10229.0	11001.2	11516.0	12358.0
55°	14131.0	14128.6	14022.7	14248.9	14073.2	12848.7	12625.0	12083.7	13070.1	13616.2	14847.9
57.5°	14616.9	14674.7	15037.9	15677.8	16029.1	15074.0	14859.9	14306.6	15290.5	15574.4	16904.7
60°	14867.1	14939.3	15641.7	16907.1	17852.6	17503.7	17419.5	16714.7	17268.0	17234.3	18639.2
62.5°	14515.9	14660.2	15788.5	17470.1	19154.0	19945.5	19919.0	18853.3	18949.6	18620.0	19714.6
65°	12904.1	13060.4	14831.0	17188.6	19897.4	21802.7	21809.9	20789.9	20241.4	19293.6	19534.1
67.5°	9228.2	9451.9	11641.1	15379.5	19635.2	22805.9	22890.1	21668.0	20544.5	18697.0	17638.5
70°	5030.3	5193.9	6909.1	11179.2	17272.8	22565.3	22721.7	21244.6	19207.0	16173.4	13577.7
72.5°	2285.4	2338.3	3214.0	6134.5	11799.9	19423.5	20077.8	18959.2	15774.1	11946.6	8634.0
75°	1046.5	1070.5	1400.1	2934.9	6165.8	12997.9	13457.4	14121.3	10977.1	7544.2	4501.0
77.5°	656.8	664.0	796.3	1342.4	3074.5	6488.1	6971.7	8407.9	6428.0	3733.6	1881.2
80°	387.3	394.5	495.6	726.5	1443.4	2968.6	3428.1	3324.7	3021.5	1611.8	856.4
82.5°	194.9	202.1	286.3	413.8	786.7	1181.2	1390.5	1397.7	1125.9	873.3	483.5
85°	69.8	72.2	93.8	163.6	334.4	389.7	435.4	531.7	550.9	507.6	233.4
87.5°	0.0	0.0	2.4	4.8	9.6	38.5	40.9	77.0	161.2	180.4	93.8
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°	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2	3298.2
2.5°	3307.8	3271.7	3259.7	3247.7	3228.4	3221.2	3206.8	3192.3	3192.3	3177.9	3170.7
5°	3324.7	3276.5	3245.3	3230.8	3218.8	3226.0	3226.0	3230.8	3247.7	3238.0	3242.9
7.5°	3384.8	3329.5	3286.2	3274.1	3274.1	3303.0	3322.2	3346.3	3377.6	3382.4	3382.4
10°	3490.6	3425.7	3380.0	3372.8	3384.8	3425.7	3454.6	3483.4	3521.9	3524.3	3529.1
12.5°	3606.1	3541.2	3495.5	3505.1	3517.1	3570.0	3601.3	3625.4	3663.9	3663.9	3661.4
15°	3726.4	3654.2	3615.7	3635.0	3671.1	3731.2	3736.0	3738.4	3757.7	3752.9	3750.5
17.5°	3851.5	3774.5	3745.6	3774.5	3813.0	3841.9	3817.8	3784.1	3776.9	3767.3	3762.5
20°	3974.2	3894.8	3882.8	3904.4	3916.4	3892.4	3817.8	3755.3	3726.4	3712.0	3707.2
22.5°	4080.0	4012.7	4005.5	4005.5	3945.3	3861.1	3750.5	3666.3	3627.8	3608.5	3603.7
25°	4205.1	4142.6	4130.6	4065.6	3911.6	3757.7	3608.5	3531.5	3500.3	3490.6	3493.0
27.5°	4351.9	4308.6	4270.1	4084.8	3815.4	3574.8	3406.4	3372.8	3360.7	3372.8	3380.0
30°	4532.3	4489.0	4402.4	4060.8	3661.4	3336.7	3175.5	3173.1	3209.2	3240.5	3245.3
32.5°	4679.1	4659.8	4517.9	3983.8	3444.9	3074.5	2937.3	2947.0	3011.9	3055.2	3062.4
35°	4794.5	4825.8	4614.1	3856.3	3187.5	2826.7	2718.4	2723.2	2759.3	2819.5	2821.9
37.5°	4958.1	5064.0	4700.7	3661.4	2891.6	2612.6	2513.9	2477.9	2473.0	2489.9	2494.7
40°	5287.7	5446.5	4763.2	3377.6	2605.4	2420.1	2309.5	2239.7	2179.5	2133.8	2119.4
42.5°	5785.7	5968.5	4799.3	3033.6	2350.4	2230.1	2105.0	2016.0	1910.1	1813.9	1780.2
45°	6699.8	6760.0	4799.3	2667.9	2124.2	2052.0	1927.0	1821.1	1686.4	1573.3	1549.3
47.5°	8162.5	7970.0	4804.1	2314.3	1924.5	1895.7	1787.4	1667.1	1518.0	1424.2	1409.7
50°	10366.1	9690.1	4902.8	2020.8	1758.6	1763.4	1684.0	1551.7	1416.9	1347.2	1335.2
52.5°	12863.2	11809.5	5167.4	1804.3	1619.0	1655.1	1611.8	1484.3	1364.0	1303.9	1291.9
55°	15211.1	13758.1	5393.5	1650.3	1501.1	1563.7	1561.3	1443.4	1335.2	1275.0	1267.8
57.5°	17207.8	15093.2	5359.9	1525.2	1400.1	1479.5	1515.6	1416.9	1315.9	1265.4	1258.2
60°	18449.2	15800.5	4881.1	1409.7	1323.1	1419.4	1489.1	1409.7	1325.5	1313.5	1315.9
62.5°	18988.0	15670.6	3962.2	1323.1	1272.6	1390.5	1518.0	1460.2	1414.5	1443.4	1460.2
65°	18150.9	14554.4	2915.7	1258.2	1224.5	1397.7	1585.3	1539.6	1414.5	1433.8	1441.0
67.5°	15827.0	12389.3	2107.4	1193.2	1164.3	1419.4	1681.6	1527.6	1332.7	1332.7	1318.3
70°	11405.3	8910.6	1530.0	1128.3	1104.2	1388.1	1686.4	1445.8	1238.9	1231.7	1195.6
72.5°	6863.4	5256.4	1193.2	1056.1	1012.8	1231.7	1580.5	1349.6	1147.5	1087.4	1044.1
75°	3565.2	2634.2	1000.8	976.7	868.5	1044.1	1445.8	1200.4	981.5	928.6	904.5
77.5°	1527.6	1231.7	858.8	870.9	721.7	878.1	1166.8	1039.3	870.9	803.5	781.8
80°	753.0	700.1	678.4	697.6	577.4	678.4	1005.6	909.3	738.5	661.6	630.3
82.5°	430.6	409.0	488.4	495.6	411.4	567.7	849.2	769.8	611.0	526.8	476.3
85°	199.7	214.1	295.9	298.3	255.0	389.7	555.7	433.0	324.8	269.4	257.4
87.5°	79.4	93.8	129.9	127.5	74.6	72.2	48.1	26.5	21.7	19.2	16.8
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)