

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: P638892

Luminaire Tested: GWS-SA4F-760-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638892
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-760-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34033.2 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

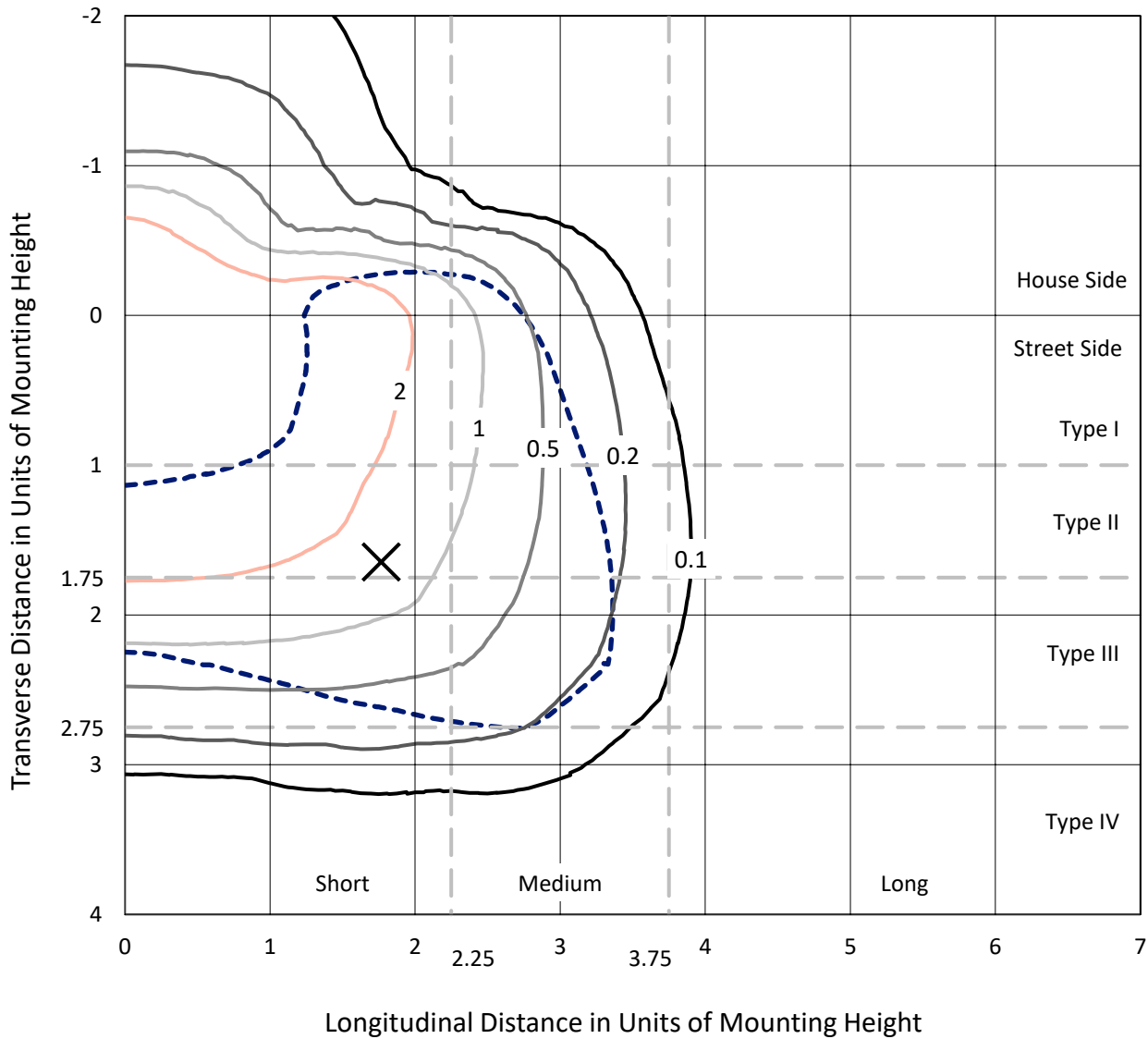
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

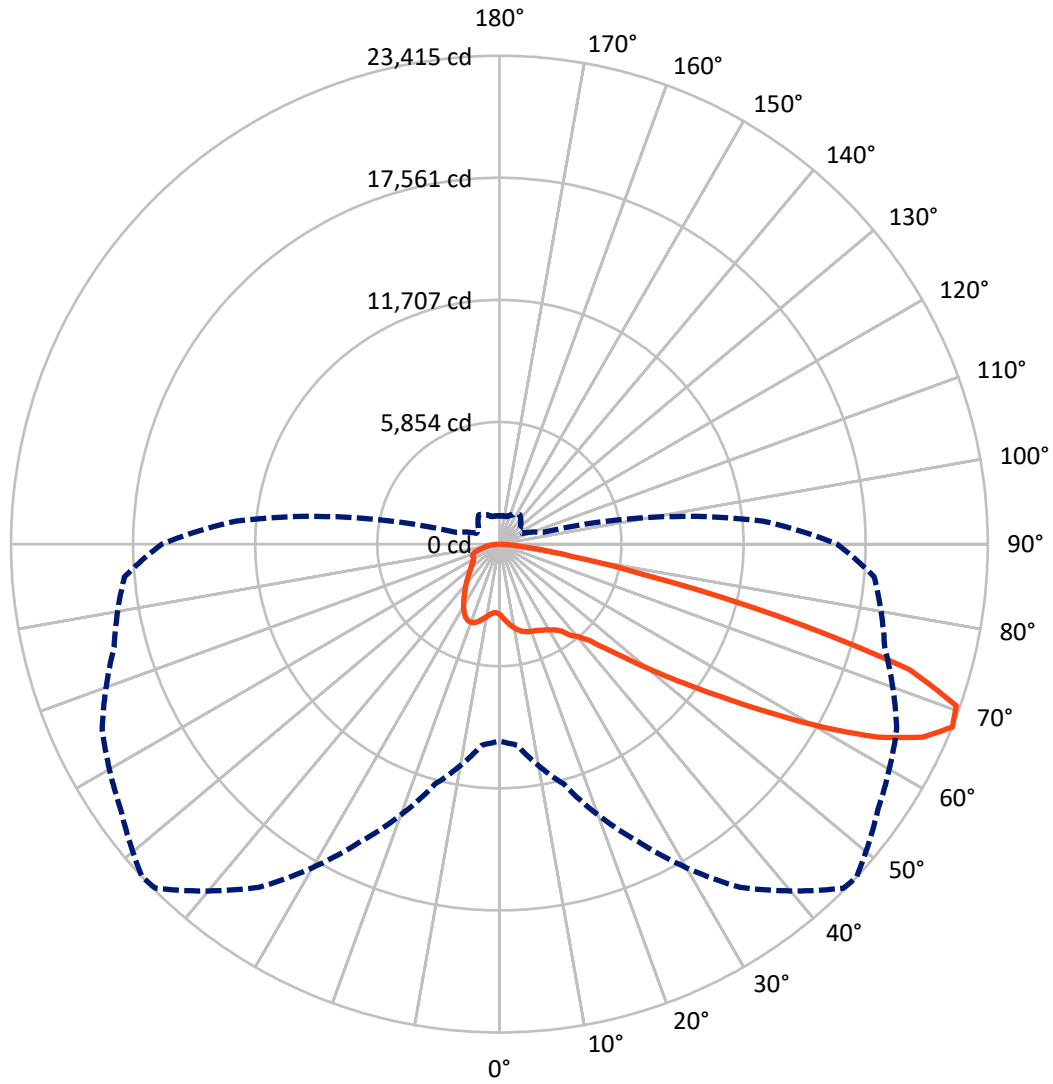
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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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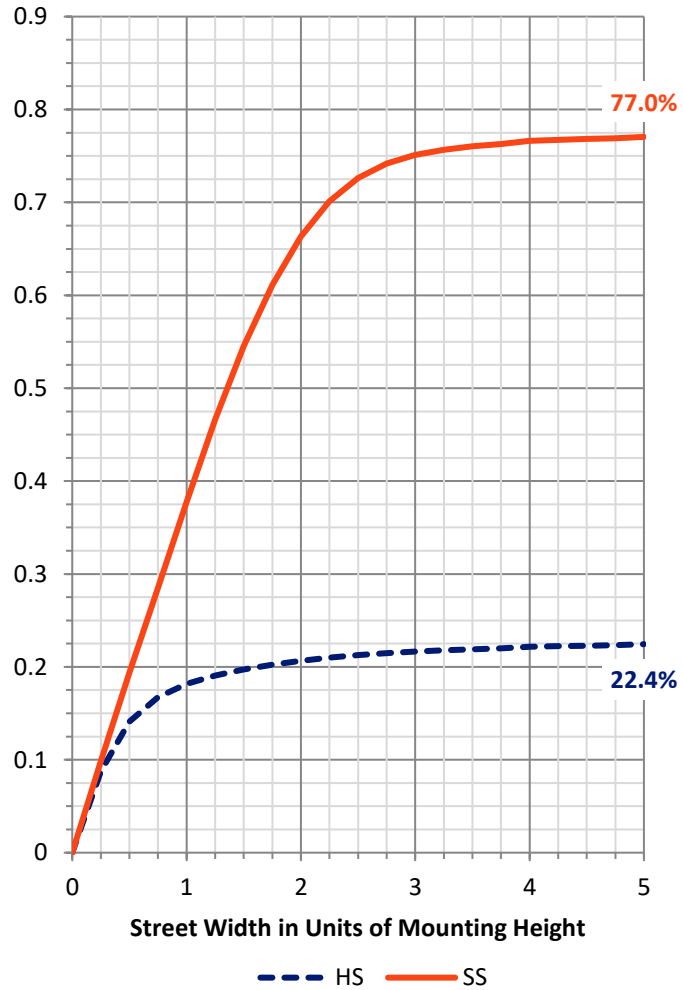
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7756.4	0.0	7756.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	26276.8	0.0	26276.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	34033.2	0.0	34033.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.0
10°-20°	1148.8	3.4
20°-30°	1952.6	5.7
30°-40°	2860.3	8.4
40°-50°	4358.0	12.8
50°-60°	7797.5	22.9
60°-70°	10404.9	30.6
70°-80°	4705.3	13.8
80°-90°	461.0	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°	34033.2	100.0
0°-180°	34033.2	100.0

Coefficient of Utilization



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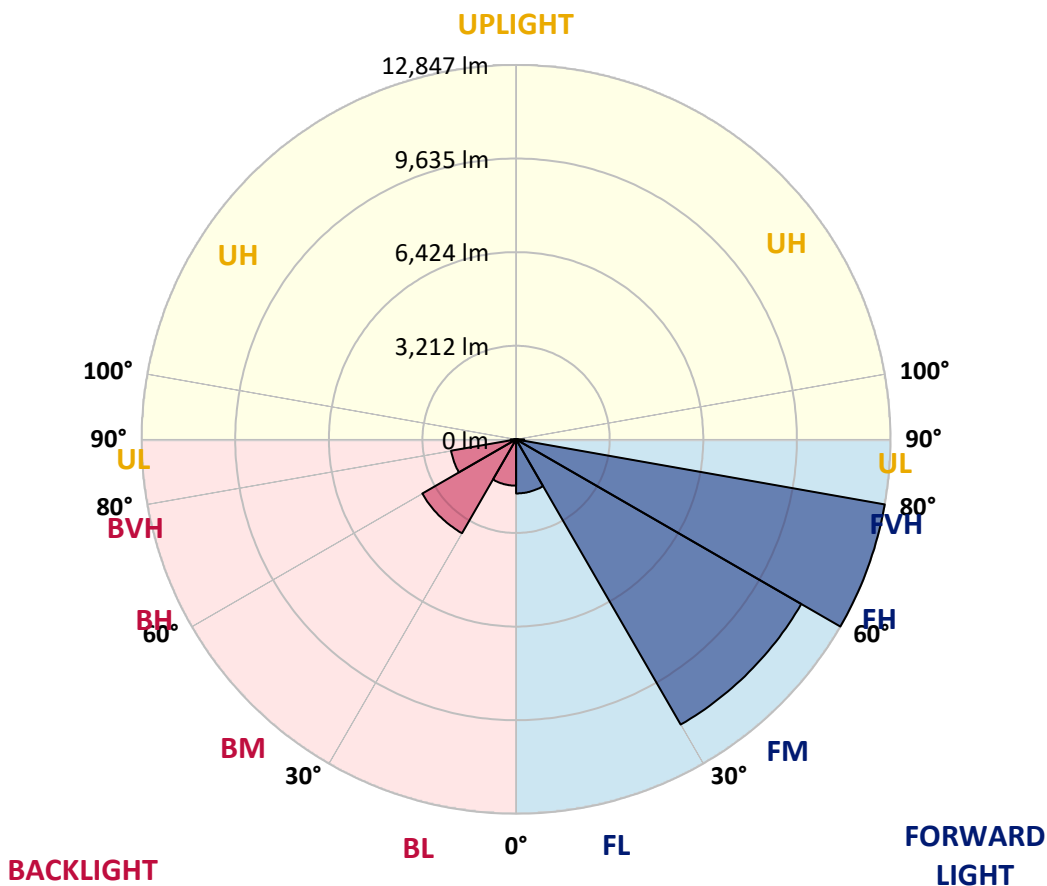
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.0	5.5			
FM (30°-60°)	11299.4	33.2			
FH (60°-80°)	12847.1	37.7			G5
FVH (80°-90°)	274.2	0.8			G3/500
BL (0°-30°)	1590.1	4.7	B3/2500		
BM (30°-60°)	3716.5	10.9	B3/5000		
BH (60°-80°)	2263.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	186.8	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°	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8
2.5°	3597.7	3610.0	3607.5	3587.9	3575.6	3553.4	3555.9	3521.4	3469.7	3435.3	3395.9
5°	3915.1	3934.8	3910.2	3878.2	3829.0	3757.7	3750.3	3671.5	3573.1	3504.2	3432.8
7.5°	4190.8	4203.1	4173.5	4119.4	4048.0	3952.1	3934.8	3841.3	3718.3	3610.0	3506.7
10°	4404.8	4419.6	4380.2	4308.9	4215.4	4119.4	4107.1	4011.1	3880.7	3752.7	3622.3
12.5°	4586.9	4591.9	4550.0	4454.1	4353.2	4254.7	4242.4	4153.8	4033.3	3902.8	3760.1
15°	4692.8	4695.2	4643.5	4537.7	4441.8	4355.6	4348.2	4272.0	4161.2	4038.2	3885.6
17.5°	4685.4	4690.3	4653.4	4559.9	4476.2	4424.5	4417.1	4367.9	4281.8	4171.1	4018.5
20°	4594.3	4599.2	4574.6	4513.1	4468.8	4454.1	4456.5	4441.8	4390.1	4299.0	4144.0
22.5°	4523.0	4530.3	4508.2	4463.9	4459.0	4493.4	4500.8	4508.2	4483.6	4402.4	4252.3
25°	4557.4	4569.7	4535.3	4473.7	4483.6	4559.9	4574.6	4599.2	4579.6	4510.7	4380.2
27.5°	4796.1	4803.5	4714.9	4589.4	4559.9	4641.1	4663.2	4702.6	4687.8	4623.9	4523.0
30°	5349.8	5344.9	5155.4	4847.8	4724.8	4756.7	4774.0	4830.6	4835.5	4793.7	4697.7
32.5°	6129.9	6105.3	5812.4	5322.7	4965.9	4887.2	4906.9	4983.1	5039.7	4995.4	4865.0
35°	6954.2	6932.1	6609.7	6036.4	5411.3	5138.2	5116.0	5175.1	5261.2	5138.2	4951.1
37.5°	7739.2	7704.8	7375.0	6666.3	5960.1	5578.7	5546.7	5487.6	5435.9	5199.7	5057.0
40°	8610.4	8571.0	8283.1	7480.9	6565.4	5915.8	5834.6	5600.8	5554.0	5403.9	5332.6
42.5°	9540.6	9540.6	9301.9	8511.9	7296.3	6398.1	6292.3	5940.4	5989.6	5891.2	5807.5
45°	10470.7	10497.8	10308.3	9550.4	8273.2	7308.6	7138.8	6639.3	6757.4	6713.1	6671.2
47.5°	11263.1	11314.8	11277.9	10611.0	9469.2	8416.0	8157.6	7638.3	7891.8	7997.6	8115.7
50°	12117.0	12173.6	12136.7	11873.4	10869.4	9757.1	9525.8	8989.3	9424.9	9742.3	10128.7
52.5°	13384.3	13465.5	13157.9	13057.0	12569.8	11280.3	11073.6	10463.4	11253.3	11779.9	12641.2
55°	14454.8	14452.3	14344.0	14575.4	14395.7	13143.2	12914.3	12360.6	13369.6	13928.2	15188.1
57.5°	14951.9	15010.9	15382.5	16037.1	16396.4	15419.4	15200.4	14634.4	15640.9	15931.3	17292.1
60°	15207.8	15281.6	16000.2	17294.6	18261.7	17904.8	17818.7	17097.7	17663.7	17629.2	19066.3
62.5°	14848.5	14996.2	16150.3	17870.4	19592.9	20402.6	20375.5	19285.3	19383.8	19046.7	20166.3
65°	13199.8	13359.7	15170.9	17582.5	20353.3	22302.3	22309.7	21266.3	20705.2	19735.7	19981.8
67.5°	9439.7	9668.5	11907.8	15731.9	20085.1	23328.5	23414.6	22164.5	21015.3	19125.4	18042.6
70°	5145.5	5312.9	7067.4	11435.4	17668.6	23082.4	23242.3	21731.4	19647.1	16544.0	13888.8
72.5°	2337.8	2391.9	3287.6	6275.1	12070.3	19868.6	20537.9	19393.6	16135.5	12220.4	8831.8
75°	1070.5	1095.1	1432.2	3002.2	6307.0	13295.7	13765.8	14444.9	11228.7	7717.1	4604.2
77.5°	671.8	679.2	814.5	1373.1	3144.9	6636.8	7131.4	8600.5	6575.3	3819.2	1924.4
80°	396.2	403.6	506.9	743.2	1476.5	3036.6	3506.7	3400.8	3090.8	1648.7	876.0
82.5°	199.3	206.7	292.8	423.3	804.7	1208.3	1422.3	1429.7	1151.7	893.3	494.6
85°	71.4	73.8	96.0	167.3	342.1	398.7	445.4	543.8	563.5	519.2	238.7
87.5°	0.0	0.0	2.5	4.9	9.8	39.4	41.8	78.7	164.9	184.6	96.0
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°	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8
2.5°	3383.6	3346.7	3334.4	3322.1	3302.4	3295.0	3280.3	3265.5	3265.5	3250.7	3243.3
5°	3400.8	3351.6	3319.6	3304.9	3292.6	3299.9	3299.9	3304.9	3322.1	3312.2	3317.2
7.5°	3462.4	3405.8	3361.5	3349.2	3349.2	3378.7	3398.4	3423.0	3455.0	3459.9	3459.9
10°	3570.6	3504.2	3457.4	3450.1	3462.4	3504.2	3533.7	3563.2	3602.6	3605.1	3610.0
12.5°	3688.8	3622.3	3575.6	3585.4	3597.7	3651.8	3683.8	3708.4	3747.8	3747.8	3745.3
15°	3811.8	3738.0	3698.6	3718.3	3755.2	3816.7	3821.6	3824.1	3843.8	3838.9	3836.4
17.5°	3939.8	3861.0	3831.5	3861.0	3900.4	3929.9	3905.3	3870.9	3863.5	3853.6	3848.7
20°	4065.3	3984.0	3971.7	3993.9	4006.2	3981.6	3905.3	3841.3	3811.8	3797.0	3792.1
22.5°	4173.5	4104.6	4097.2	4097.2	4035.7	3949.6	3836.4	3750.3	3710.9	3691.2	3686.3
25°	4301.5	4237.5	4225.2	4158.8	4001.3	3843.8	3691.2	3612.5	3580.5	3570.6	3573.1
27.5°	4451.6	4407.3	4367.9	4178.5	3902.8	3656.8	3484.5	3450.1	3437.7	3450.1	3457.4
30°	4636.2	4591.9	4503.3	4153.8	3745.3	3413.1	3248.3	3245.8	3282.7	3314.7	3319.6
32.5°	4786.3	4766.6	4621.4	4075.1	3523.9	3144.9	3004.6	3014.5	3080.9	3125.2	3132.6
35°	4904.4	4936.4	4719.8	3944.7	3260.6	2891.4	2780.7	2785.6	2822.5	2884.1	2886.5
37.5°	5071.7	5180.0	4808.4	3745.3	2957.9	2672.4	2571.5	2534.6	2529.7	2546.9	2551.9
40°	5408.9	5571.3	4872.4	3455.0	2665.1	2475.6	2362.4	2291.0	2229.5	2182.7	2168.0
42.5°	5918.2	6105.3	4909.3	3103.1	2404.2	2281.2	2153.2	2062.2	1953.9	1855.4	1821.0
45°	6853.3	6914.9	4909.3	2729.0	2172.9	2099.1	1971.1	1862.8	1725.0	1609.4	1584.8
47.5°	8349.5	8152.7	4914.2	2367.3	1968.6	1939.1	1828.4	1705.3	1552.8	1456.8	1442.0
50°	10603.6	9912.1	5015.1	2067.1	1798.9	1803.8	1722.6	1587.2	1449.4	1378.1	1365.7
52.5°	13157.9	12080.1	5285.8	1845.6	1656.1	1693.0	1648.7	1518.3	1395.3	1333.8	1321.5
55°	15559.7	14073.4	5517.1	1688.1	1535.5	1599.5	1597.1	1476.5	1365.7	1304.2	1296.8
57.5°	17602.2	15439.1	5482.7	1560.2	1432.2	1513.4	1550.3	1449.4	1346.1	1294.4	1287.0
60°	18871.9	16162.6	4993.0	1442.0	1353.4	1451.9	1523.2	1442.0	1355.9	1343.6	1346.1
62.5°	19423.2	16029.7	4053.0	1353.4	1301.8	1422.3	1552.8	1493.7	1447.0	1476.5	1493.7
65°	18566.8	14887.9	2982.5	1287.0	1252.6	1429.7	1621.7	1574.9	1447.0	1466.6	1474.0
67.5°	16189.7	12673.2	2155.7	1220.6	1191.0	1451.9	1720.1	1562.6	1363.3	1363.3	1348.5
70°	11666.7	9114.8	1565.1	1154.1	1129.5	1419.9	1725.0	1478.9	1267.3	1259.9	1223.0
72.5°	7020.7	5376.9	1220.6	1080.3	1036.0	1259.9	1616.8	1380.5	1173.8	1112.3	1068.0
75°	3646.9	2694.6	1023.7	999.1	888.4	1068.0	1478.9	1227.9	1004.0	949.9	925.3
77.5°	1562.6	1259.9	878.5	890.8	738.2	898.2	1193.5	1063.1	890.8	821.9	799.8
80°	770.2	716.1	693.9	713.6	590.6	693.9	1028.6	930.2	755.5	676.7	644.7
82.5°	440.5	418.3	499.5	506.9	420.8	580.8	868.7	787.5	625.0	538.9	487.2
85°	204.2	219.0	302.7	305.1	260.8	398.7	568.4	442.9	332.2	275.6	263.3
87.5°	81.2	96.0	132.9	130.4	76.3	73.8	49.2	27.1	22.1	19.7	17.2
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)