

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: P638890

Luminaire Tested: GWS-SA4F-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33157.1 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

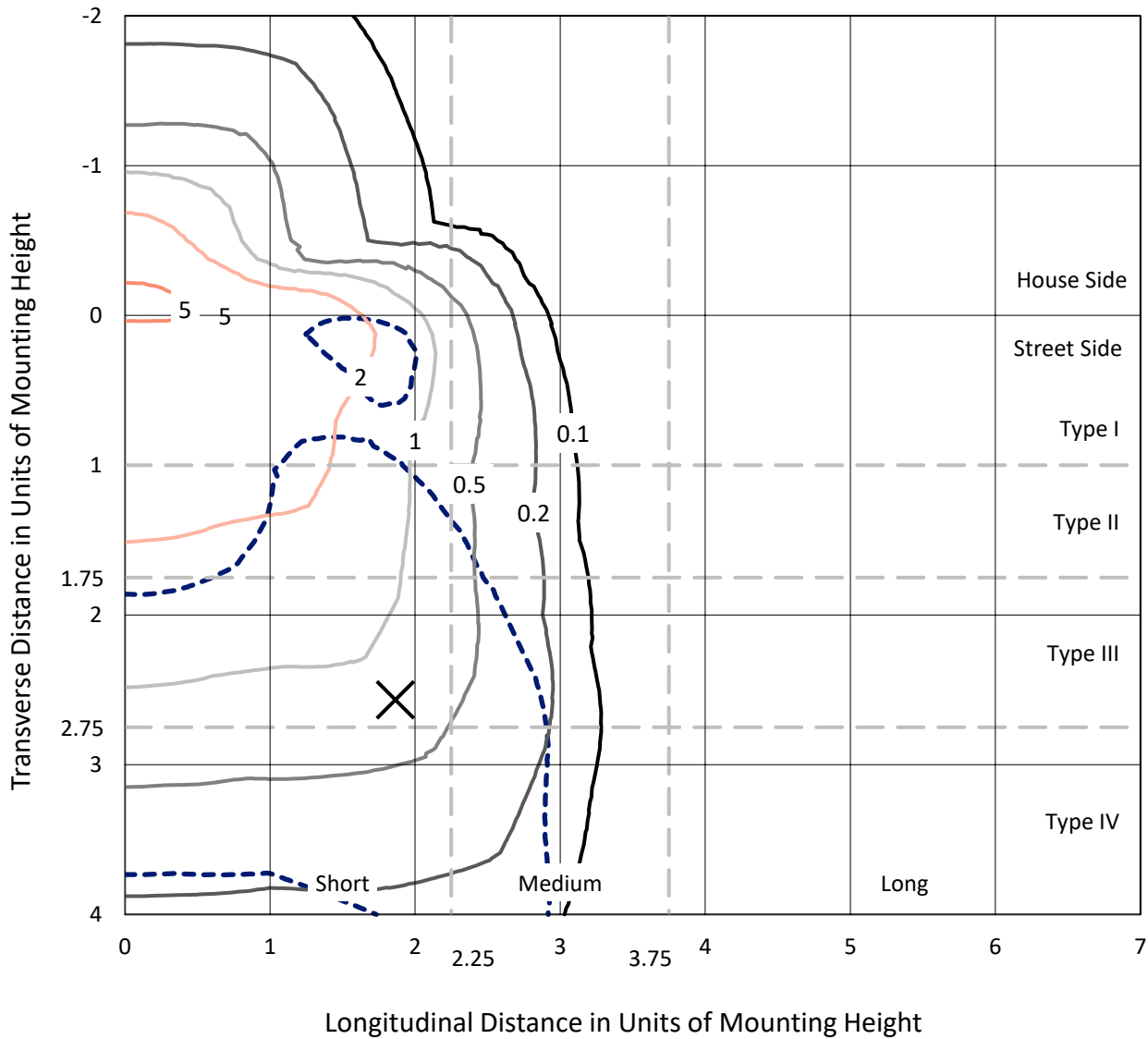
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

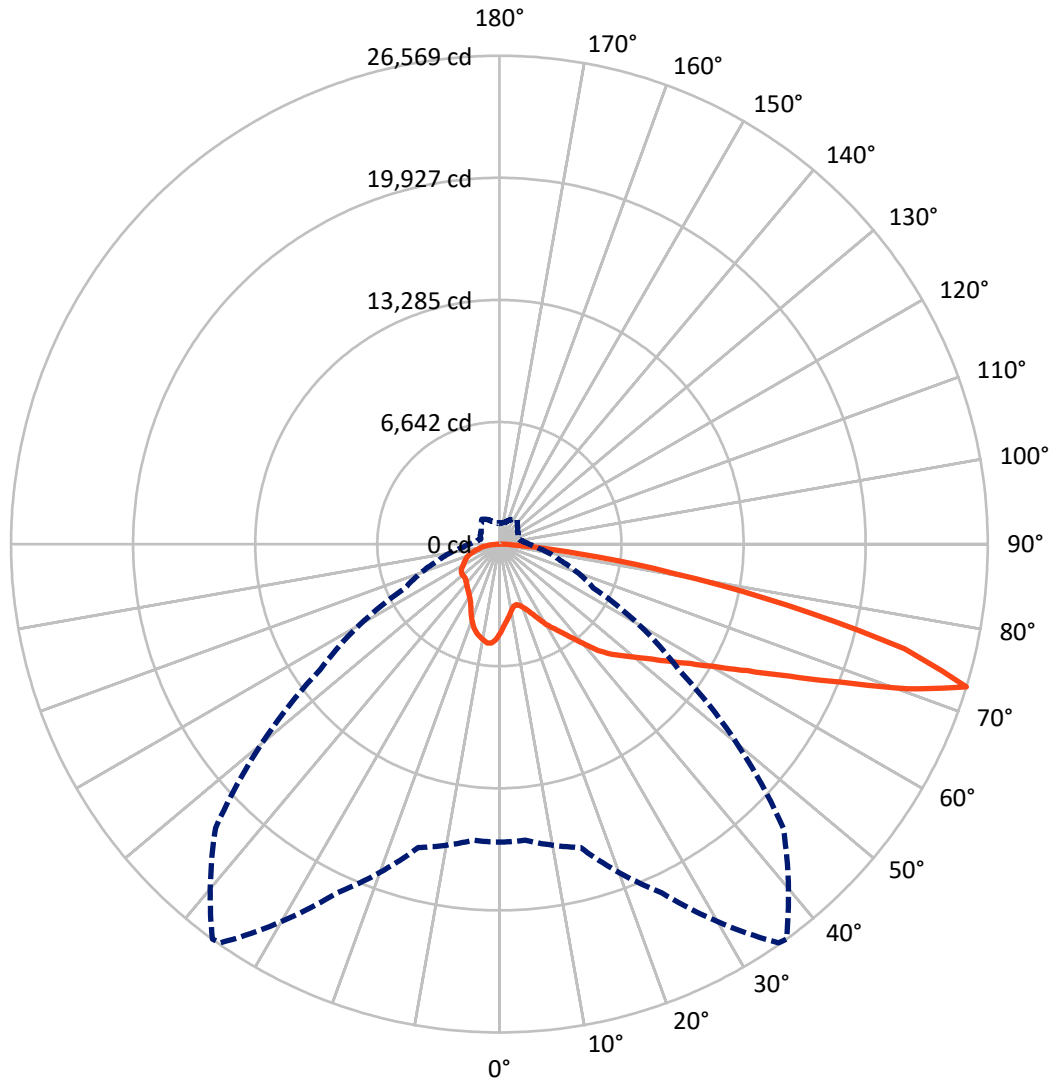
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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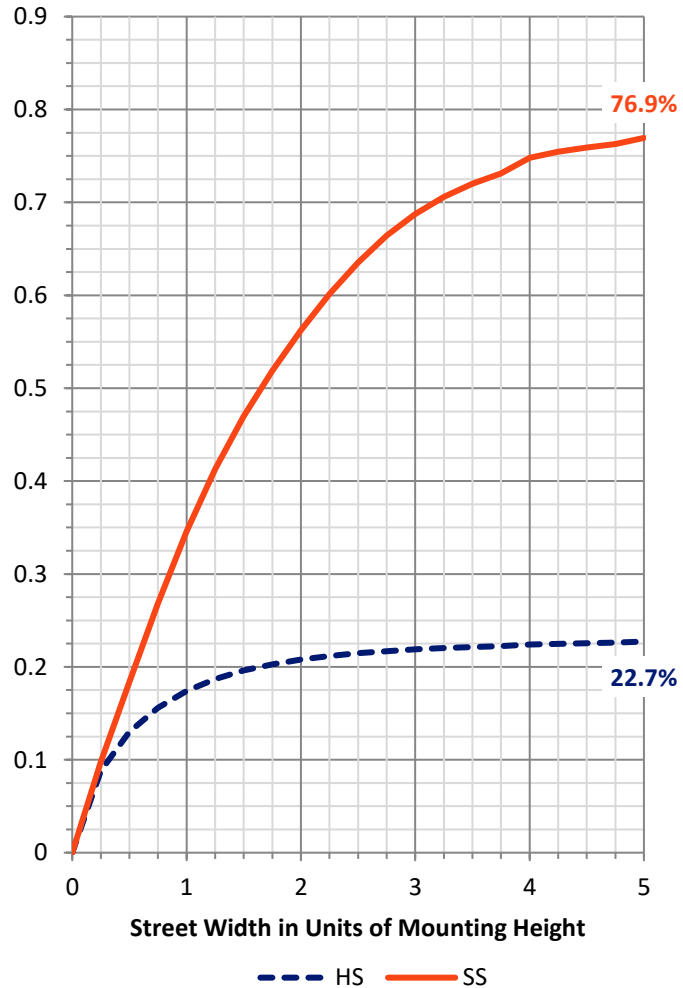
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7644.1	0.0	7644.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	25513.0	0.0	25513.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	33157.1	0.0	33157.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.6	1.4
10°-20°	1279.8	3.9
20°-30°	2119.5	6.4
30°-40°	3174.1	9.6
40°-50°	4630.7	14.0
50°-60°	6590.9	19.9
60°-70°	8327.1	25.1
70°-80°	5933.8	17.9
80°-90°	647.8	2.0
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°	33157.1	100.0
0°-180°	33157.1	100.0

Coefficient of Utilization



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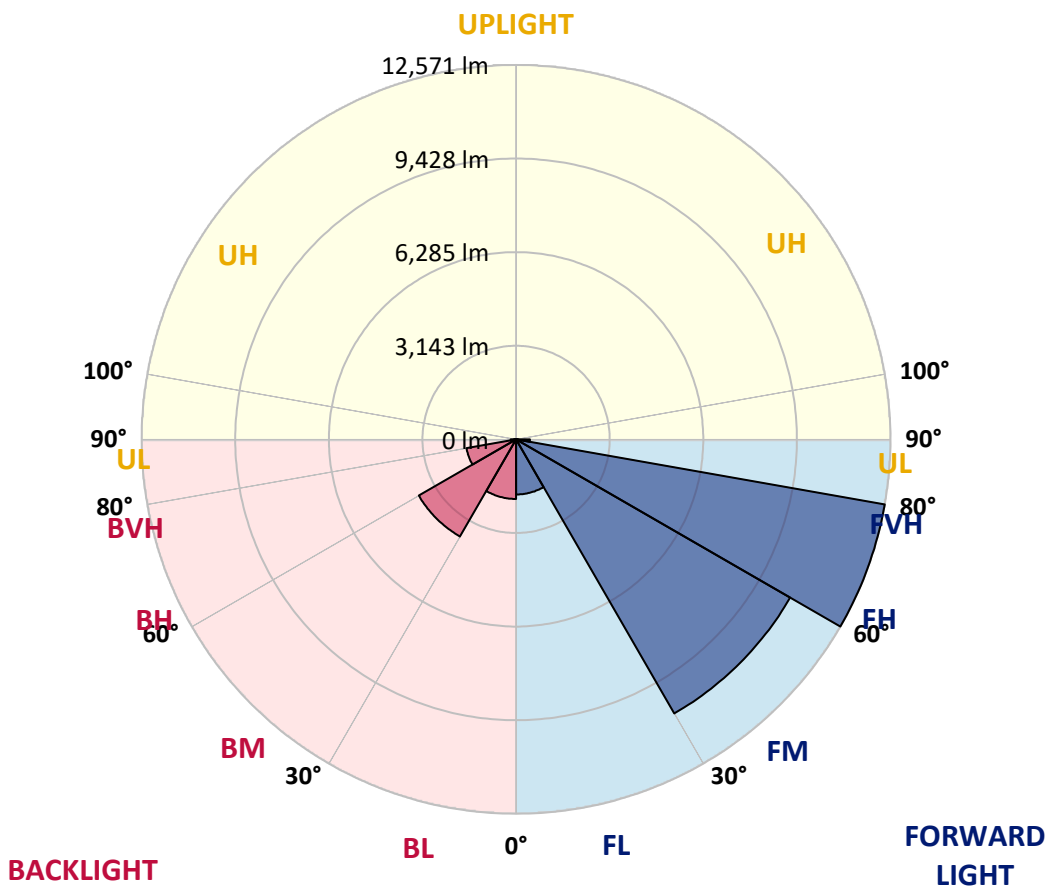
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.1	5.6			
FM (30°-60°)	10626.0	32.0			
FH (60°-80°)	12570.9	37.9			G5
FVH (80°-90°)	464.9	1.4			G3/500
BL (0°-30°)	2001.7	6.0	B3/2500		
BM (30°-60°)	3769.6	11.4	B3/5000		
BH (60°-80°)	1689.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	182.8	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7
2.5°	4427.0	4419.6	4404.8	4449.1	4493.4	4488.5	4550.0	4609.1	4673.1	4739.5	4828.1
5°	4072.6	4067.7	4055.4	4121.8	4188.3	4185.8	4286.7	4382.7	4513.1	4655.8	4833.0
7.5°	3718.3	3706.0	3723.2	3806.9	3900.4	3910.2	4048.0	4205.5	4395.0	4609.1	4860.1
10°	3405.7	3403.3	3410.7	3504.2	3644.4	3654.3	3831.5	4050.5	4301.5	4586.9	4921.6
12.5°	3324.5	3319.6	3299.9	3346.7	3452.5	3467.3	3661.7	3929.9	4237.5	4599.2	5005.3
15°	3457.4	3445.1	3376.2	3354.1	3405.7	3418.0	3582.9	3858.5	4200.6	4621.4	5111.1
17.5°	3686.3	3678.9	3548.5	3457.4	3491.9	3501.7	3624.8	3846.2	4190.7	4665.7	5241.5
20°	4020.9	3989.0	3784.7	3646.9	3646.9	3661.7	3735.5	3900.4	4203.0	4719.8	5389.1
22.5°	4463.9	4399.9	4112.0	3925.0	3875.8	3895.4	3927.4	4035.7	4254.7	4810.9	5573.7
25°	4961.0	4901.9	4559.9	4296.6	4227.6	4235.0	4208.0	4227.6	4367.9	4936.4	5802.6
27.5°	5490.0	5450.7	5086.5	4751.8	4643.5	4643.5	4547.6	4500.8	4525.4	5079.1	6058.5
30°	5962.5	5908.4	5600.8	5234.1	5091.4	5091.4	4909.3	4808.4	4749.3	5253.8	6400.5
32.5°	6211.0	6179.1	5974.8	5694.3	5519.6	5492.5	5335.0	5216.9	5079.1	5512.2	6863.2
35°	6535.9	6528.5	6405.5	6186.4	5965.0	5925.6	5817.3	5723.8	5485.1	5834.5	7478.4
37.5°	6944.4	6932.1	6912.4	6782.0	6516.2	6508.8	6412.8	6299.6	5989.6	6299.6	8224.0
40°	7402.1	7379.9	7355.3	7352.9	7192.9	7165.8	7158.5	7030.5	6597.4	6860.7	9001.6
42.5°	8032.0	7955.8	7724.4	7827.8	7945.9	7921.3	8014.8	7822.9	7355.3	7527.6	9737.4
45°	8807.2	8620.2	8162.5	8192.0	8489.7	8539.0	8863.8	8817.0	8189.5	8297.8	10512.5
47.5°	9272.3	9109.9	8684.1	8659.5	9031.1	9092.6	9798.9	9887.5	9087.7	9225.5	11469.8
50°	9653.7	9540.5	9191.1	9225.5	9619.3	9680.8	10726.6	10916.1	9934.2	10175.4	12582.1
52.5°	10113.9	9951.5	9680.8	9843.2	10325.5	10399.3	11757.7	11961.9	10697.1	11218.8	13733.7
55°	10372.3	10305.8	10310.7	10559.3	11164.6	11265.5	12838.0	12803.5	11395.9	12112.0	14599.9
57.5°	10967.8	10943.2	11169.6	11263.1	12144.0	12274.5	13918.3	13623.0	12030.8	12803.5	15015.8
60°	12018.5	11957.0	12153.9	12296.6	13354.7	13539.3	15124.1	14425.2	12461.5	13317.8	14875.5
62.5°	13495.0	13418.7	13426.1	13652.5	14976.4	15170.8	16465.2	15094.5	12594.4	13396.6	13987.2
65°	15330.8	15220.0	15094.5	15402.1	17129.6	17292.0	17924.4	15581.8	12276.9	12638.6	12131.7
67.5°	17267.4	17176.4	17028.7	17673.4	19917.7	20016.1	19560.9	15539.9	11270.4	10611.0	8509.4
70°	17380.6	17402.8	18101.6	20434.5	23557.2	23581.8	21108.7	14698.3	9127.1	6877.9	4240.0
72.5°	16214.2	16177.3	17087.8	20938.9	26485.5	26569.2	21839.6	11907.8	5640.1	3430.3	1988.3
75°	13170.2	13234.2	14191.4	18320.6	22700.8	22774.7	17803.9	7020.7	2679.8	1678.3	1272.2
77.5°	5669.7	6026.5	7913.9	12906.9	16258.5	16029.6	9176.3	2844.7	1429.7	1195.9	974.5
80°	1636.4	1776.7	2820.1	6137.2	9742.3	9570.0	3632.1	1065.5	996.6	898.2	698.9
82.5°	529.1	585.7	1033.5	2443.6	4365.5	4360.5	1378.0	630.0	652.1	610.3	450.3
85°	147.6	169.8	317.4	740.7	1351.0	1323.9	398.6	297.8	347.0	351.9	223.9
87.5°	0.0	0.0	2.5	4.9	4.9	4.9	9.8	44.3	100.9	128.0	91.0
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°	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7	4852.7
2.5°	4882.2	4874.8	4975.7	5054.5	5128.3	5177.5	5192.3	5202.1	5221.8	5231.7	5221.8
5°	4916.7	4953.6	5120.9	5244.0	5342.4	5401.4	5403.9	5399.0	5413.8	5401.4	5394.1
7.5°	4990.5	5061.9	5273.5	5403.9	5467.9	5470.3	5411.3	5342.4	5307.9	5278.4	5268.6
10°	5088.9	5194.7	5426.1	5512.2	5492.5	5401.4	5271.0	5162.8	5101.2	5056.9	5047.1
12.5°	5224.3	5342.4	5561.4	5558.9	5435.9	5273.5	5120.9	4990.5	4901.9	4850.2	4833.0
15°	5352.2	5502.3	5659.8	5544.2	5349.8	5152.9	4956.0	4781.3	4663.2	4582.0	4567.2
17.5°	5509.7	5669.7	5731.2	5497.4	5241.5	4988.0	4724.7	4495.9	4335.9	4240.0	4232.6
20°	5691.8	5834.5	5765.6	5416.2	5101.2	4769.0	4412.2	4156.3	3984.0	3890.5	3897.9
22.5°	5903.5	6006.8	5775.5	5305.5	4906.8	4459.0	4060.3	3814.2	3698.6	3649.4	3651.8
25°	6129.8	6196.3	5758.3	5155.4	4609.1	4080.0	3698.6	3585.4	3575.5	3563.2	3568.2
27.5°	6398.1	6383.3	5706.6	4943.7	4208.0	3639.5	3445.1	3474.6	3514.0	3509.1	3514.0
30°	6757.3	6617.1	5640.1	4650.9	3730.6	3270.4	3295.0	3378.7	3430.3	3435.3	3450.0
32.5°	7168.3	6875.5	5534.3	4252.3	3275.3	3063.7	3154.7	3255.6	3317.2	3329.5	3349.1
35°	7658.0	7170.8	5347.3	3755.2	2948.0	2940.7	3024.3	3093.2	3159.7	3164.6	3164.6
37.5°	8221.5	7466.1	5049.6	3206.4	2746.2	2834.8	2913.6	2928.3	2945.6	2930.8	2938.2
40°	8738.3	7751.5	4626.3	2706.9	2581.4	2741.3	2807.8	2758.6	2704.4	2667.5	2674.9
42.5°	9171.4	7945.9	4065.2	2357.4	2414.0	2657.7	2709.3	2608.4	2502.6	2433.7	2443.6
45°	9658.6	8125.5	3405.7	2121.2	2271.3	2598.6	2633.1	2502.6	2367.3	2263.9	2249.2
47.5°	10330.4	8492.2	2820.1	1956.3	2170.4	2566.6	2623.2	2446.0	2268.9	2113.8	2096.6
50°	11159.7	9011.4	2330.4	1848.1	2123.7	2549.4	2620.7	2384.5	2172.9	1990.8	1978.5
52.5°	12065.3	9518.4	1968.6	1764.4	2076.9	2497.7	2608.4	2315.6	2072.0	1875.1	1860.4
55°	12668.2	9717.7	1725.0	1685.6	2000.6	2416.5	2559.2	2249.2	1919.4	1739.8	1717.6
57.5°	12845.4	9461.8	1555.2	1614.3	1902.2	2303.3	2465.7	2108.9	1825.9	1683.2	1666.0
60°	12540.2	8817.0	1449.4	1555.2	1793.9	2158.1	2303.3	2027.7	1752.1	1624.1	1611.8
62.5°	11678.9	7822.9	1368.2	1493.7	1683.2	2005.5	2200.0	1929.3	1670.9	1570.0	1552.8
65°	9946.5	6415.3	1301.8	1429.7	1577.4	1860.4	2086.8	1830.8	1582.3	1506.0	1486.3
67.5°	6956.7	4505.7	1230.4	1353.4	1471.6	1720.1	1968.6	1739.8	1491.2	1434.6	1415.0
70°	3400.8	2389.4	1144.3	1264.8	1358.4	1577.4	1850.5	1629.0	1370.7	1338.7	1311.6
72.5°	1619.2	1336.2	1043.4	1144.3	1203.3	1387.9	1653.7	1469.1	1227.9	1159.0	1112.3
75°	1085.2	949.9	910.5	1001.5	1016.3	1164.0	1417.4	1267.3	1082.8	1004.0	964.6
77.5°	821.9	725.9	765.3	846.5	817.0	957.2	1166.4	1129.5	976.9	905.6	885.9
80°	578.3	529.1	607.8	657.0	634.9	814.5	1050.8	967.1	804.7	725.9	711.2
82.5°	364.2	354.4	447.9	455.2	462.6	644.7	863.7	760.4	625.0	514.3	477.4
85°	182.1	201.8	268.2	268.2	265.8	332.2	492.2	428.2	337.1	268.2	260.8
87.5°	61.5	86.1	115.7	93.5	71.4	56.6	64.0	78.7	83.7	81.2	81.2
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)