

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: P643950

Luminaire Tested: GWS-SA6F-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643950
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-SAGF-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38189 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

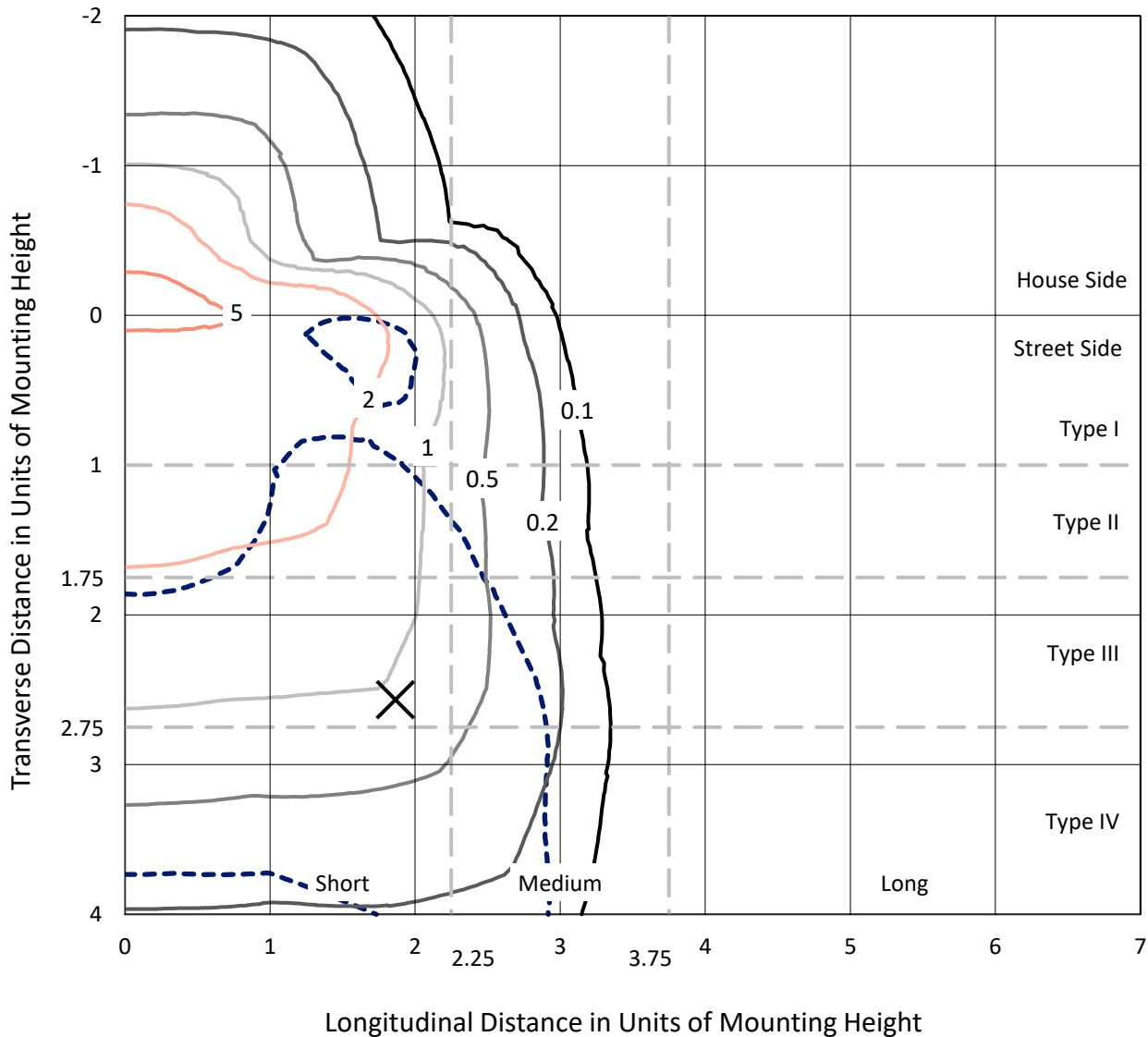
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643950
 CATALOG NUMBER: GWS-SA6F-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

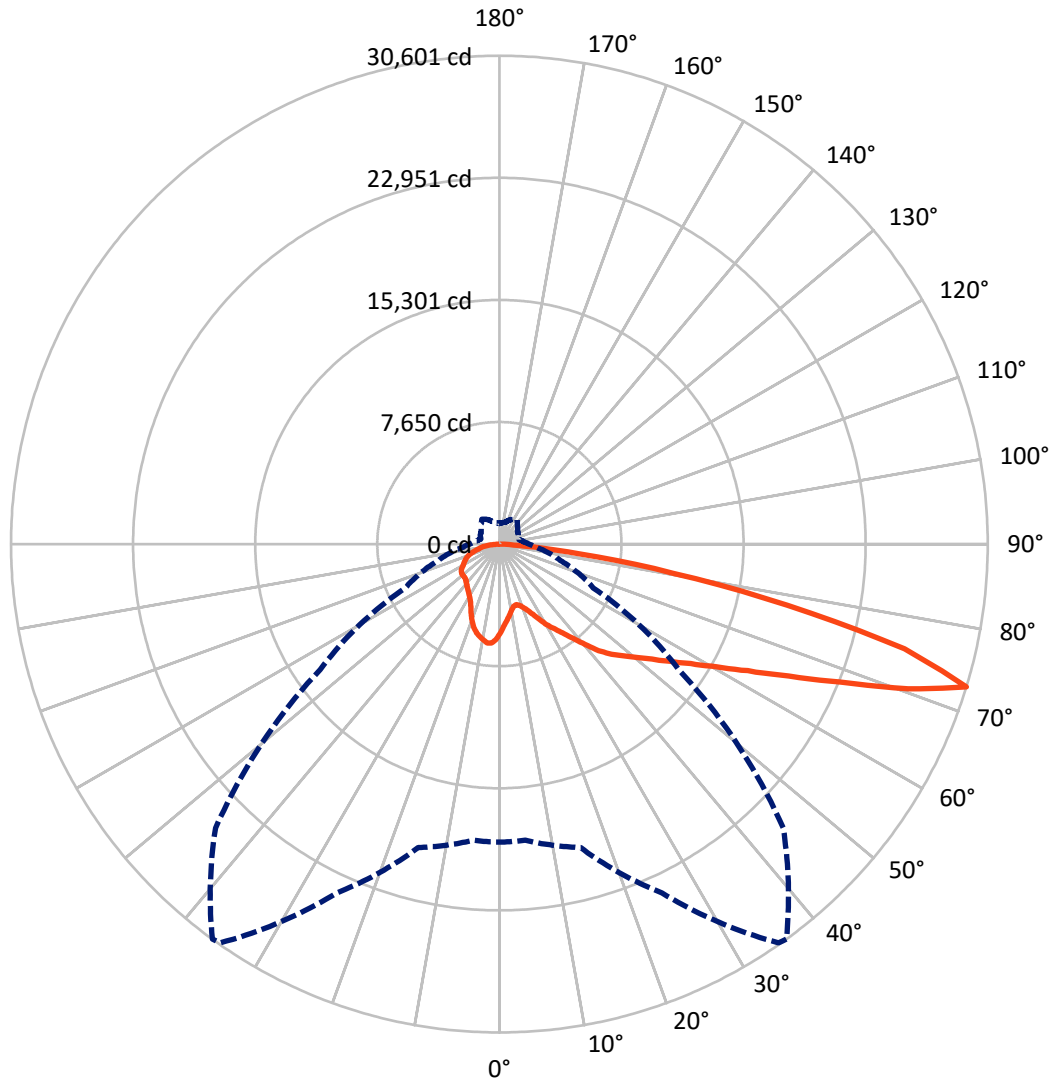
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P643950
CATALOG NUMBER: GWS-SA6F-830-U-T4FT-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643950

CATALOG NUMBER: GWS-SA6F-830-U-T4FT-W

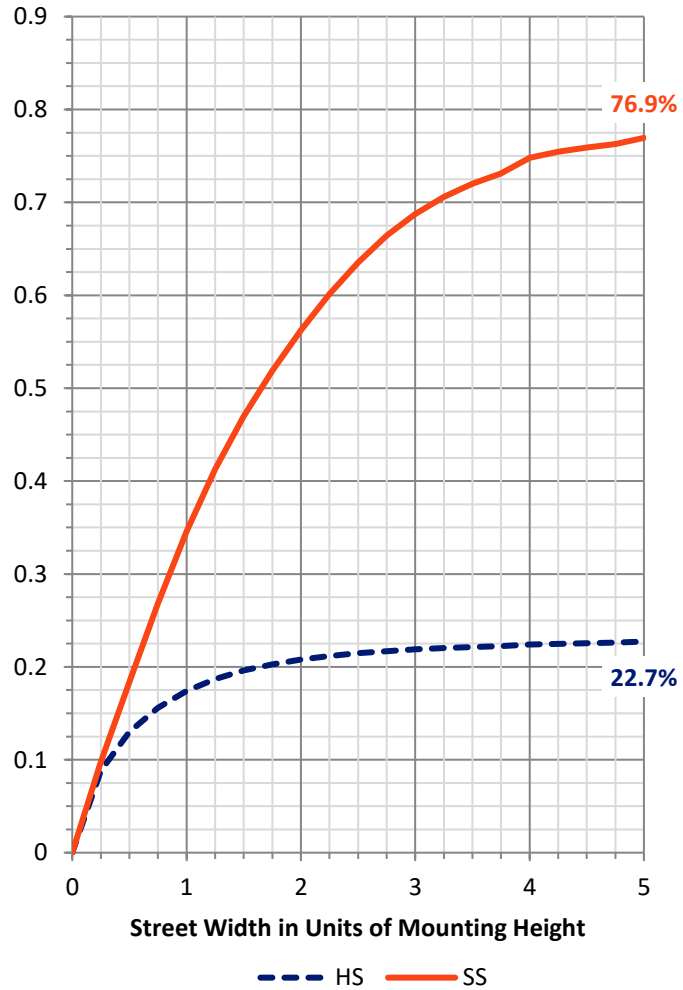
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8804.2	0.0	8804.2
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	29384.8	0.0	29384.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	38189.0	0.0	38189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.4	1.4
10°-20°	1474.0	3.9
20°-30°	2441.1	6.4
30°-40°	3655.8	9.6
40°-50°	5333.4	14.0
50°-60°	7591.1	19.9
60°-70°	9590.8	25.1
70°-80°	6834.3	17.9
80°-90°	746.1	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°	38189.0	100.0
0°-180°	38189.0	100.0

Coefficient of Utilization



REPORT NUMBER: P643950

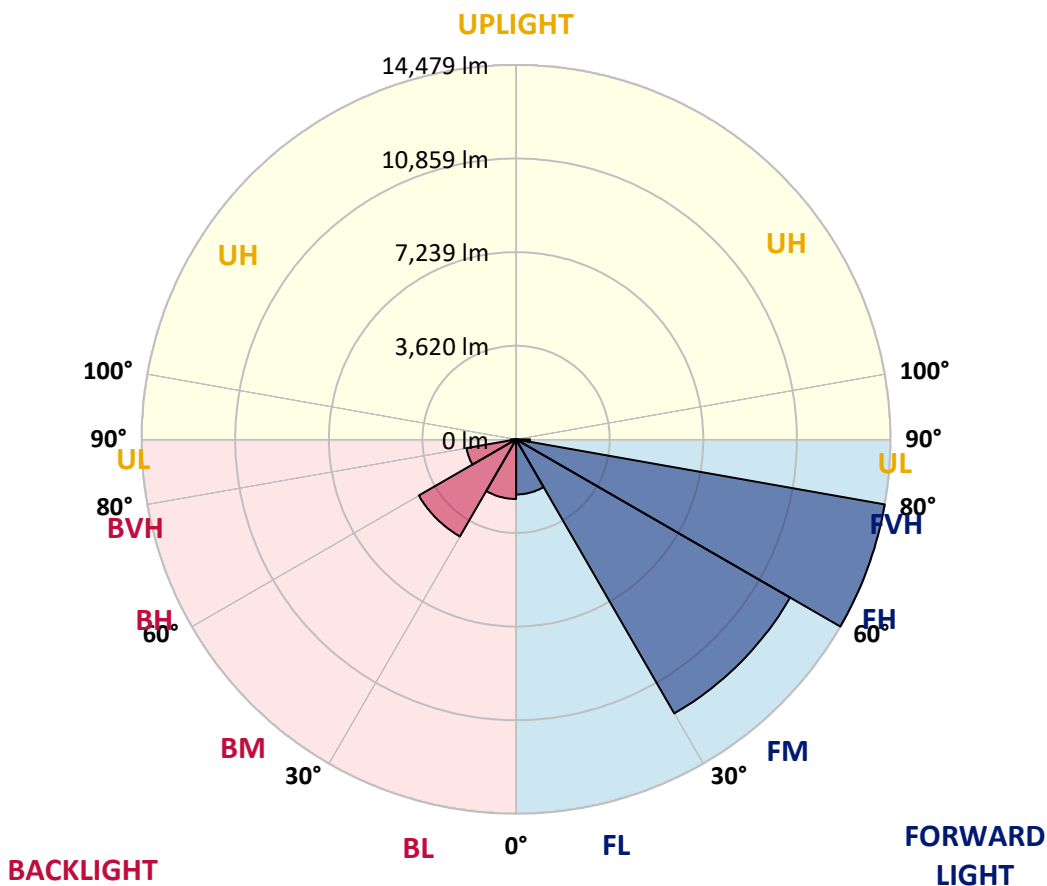
CATALOG NUMBER: GWS-SA6F-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2132.0	5.6			
FM (30°-60°)	12238.6	32.0			
FH (60°-80°)	14478.7	37.9			G5
FVH (80°-90°)	535.5	1.4			G4/750
BL (0°-30°)	2305.5	6.0	B3/2500		
BM (30°-60°)	4341.7	11.4	B3/5000		
BH (60°-80°)	1946.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	210.6	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





REPORT NUMBER: P643950

CATALOG NUMBER: GWS-SA6F-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1
2.5°	5098.8	5090.3	5073.3	5124.3	5175.3	5169.7	5240.5	5308.5	5382.2	5458.8	5560.8
5°	4690.7	4685.0	4670.8	4747.4	4823.9	4821.1	4937.3	5047.8	5198.0	5362.4	5566.5
7.5°	4282.5	4268.4	4288.2	4384.6	4492.3	4503.6	4662.3	4843.7	5062.0	5308.5	5597.6
10°	3922.6	3919.8	3928.3	4036.0	4197.5	4208.9	4412.9	4665.2	4954.3	5283.0	5668.5
12.5°	3829.1	3823.4	3800.7	3854.6	3976.4	3993.5	4217.4	4526.3	4880.6	5297.2	5764.9
15°	3982.1	3967.9	3888.6	3863.1	3922.6	3936.8	4126.7	4444.1	4838.1	5322.7	5886.7
17.5°	4245.7	4237.2	4087.0	3982.1	4021.8	4033.1	4174.8	4429.9	4826.7	5373.7	6036.9
20°	4631.2	4594.3	4359.1	4200.4	4200.4	4217.4	4302.4	4492.3	4840.9	5436.1	6207.0
22.5°	5141.3	5067.6	4736.0	4520.6	4463.9	4486.6	4523.5	4648.2	4900.4	5540.9	6419.6
25°	5713.8	5645.8	5251.9	4948.6	4869.2	4877.7	4846.6	4869.2	5030.8	5685.5	6683.1
27.5°	6323.2	6277.9	5858.4	5472.9	5348.2	5348.2	5237.7	5183.8	5212.2	5849.9	6977.9
30°	6867.4	6805.0	6450.7	6028.4	5864.1	5864.1	5654.3	5538.1	5470.1	6051.1	7371.9
32.5°	7153.6	7116.8	6881.5	6558.4	6357.2	6326.0	6144.6	6008.6	5849.9	6348.7	7904.7
35°	7527.8	7519.3	7377.5	7125.3	6870.2	6824.9	6700.2	6592.5	6317.5	6720.0	8613.3
37.5°	7998.2	7984.1	7961.4	7811.2	7505.1	7496.6	7386.0	7255.7	6898.6	7255.7	9472.0
40°	8525.4	8499.9	8471.6	8468.7	8284.5	8253.3	8244.8	8097.4	7598.6	7901.9	10367.7
42.5°	9251.0	9163.1	8896.7	9015.7	9151.8	9123.4	9231.1	9010.1	8471.6	8670.0	11215.1
45°	10143.8	9928.4	9401.2	9435.2	9778.1	9834.8	10209.0	10155.1	9432.4	9557.1	12107.9
47.5°	10679.4	10492.4	10002.1	9973.7	10401.7	10472.5	11286.0	11388.0	10466.9	10625.6	13210.4
50°	11118.7	10988.4	10585.9	10625.6	11079.1	11149.9	12354.5	12572.7	11441.8	11719.6	14491.5
52.5°	11648.7	11461.7	11149.9	11337.0	11892.5	11977.5	13542.0	13777.3	12320.5	12921.3	15817.9
55°	11946.3	11869.8	11875.5	12161.7	12859.0	12975.2	14786.3	14746.6	13125.4	13950.2	16815.6
57.5°	12632.2	12603.9	12864.6	12972.3	13987.0	14137.2	16030.5	15690.4	13856.6	14746.6	17294.6
60°	13842.5	13771.6	13998.3	14162.7	15381.4	15594.0	17419.3	16614.3	14352.6	15338.9	17133.0
62.5°	15543.0	15455.1	15463.6	15724.4	17249.2	17473.1	18963.9	17385.3	14505.7	15429.6	16109.8
65°	17657.3	17529.8	17385.3	17739.5	19729.2	19916.2	20644.6	17946.4	14140.0	14556.7	13972.8
67.5°	19887.9	19783.0	19613.0	20355.5	22940.4	23053.7	22529.4	17898.3	12980.8	12221.3	9800.8
70°	20018.3	20043.8	20848.7	23535.6	27132.2	27160.6	24312.2	16928.9	10512.2	7921.7	4883.4
72.5°	18674.8	18632.3	19681.0	24116.6	30505.0	30601.3	25153.9	13714.9	6496.1	3950.9	2290.1
75°	15168.9	15242.6	16345.1	21101.0	26145.9	26230.9	20505.8	8086.1	3086.5	1933.0	1465.3
77.5°	6530.1	6941.1	9114.9	14865.6	18725.9	18462.3	10568.9	3276.4	1646.7	1377.4	1122.4
80°	1884.8	2046.3	3248.0	7068.6	11220.8	11022.4	4183.3	1227.2	1147.9	1034.5	804.9
82.5°	609.4	674.6	1190.4	2814.4	5028.0	5022.3	1587.2	725.6	751.1	702.9	518.7
85°	170.1	195.6	365.6	853.1	1556.0	1524.8	459.1	342.9	399.6	405.3	257.9
87.5°	0.0	0.0	2.8	5.7	5.7	5.7	11.3	51.0	116.2	147.4	104.9
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°	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1	5589.1
2.5°	5623.1	5614.6	5730.8	5821.5	5906.6	5963.3	5980.3	5991.6	6014.3	6025.6	6014.3
5°	5662.8	5705.3	5898.1	6039.8	6153.1	6221.2	6224.0	6218.3	6235.3	6221.2	6212.7
7.5°	5747.8	5830.0	6073.8	6224.0	6297.7	6300.5	6232.5	6153.1	6113.5	6079.5	6068.1
10°	5861.2	5983.1	6249.5	6348.7	6326.0	6221.2	6071.0	5946.2	5875.4	5824.4	5813.0
12.5°	6017.1	6153.1	6405.4	6402.6	6260.8	6073.8	5898.1	5747.8	5645.8	5586.3	5566.5
15°	6164.5	6337.4	6518.8	6385.6	6161.6	5934.9	5708.2	5506.9	5370.9	5277.4	5260.4
17.5°	6345.9	6530.1	6601.0	6331.7	6036.9	5745.0	5441.8	5178.2	4993.9	4883.4	4874.9
20°	6555.6	6720.0	6640.6	6238.2	5875.4	5492.8	5081.8	4787.0	4588.6	4480.9	4489.4
22.5°	6799.4	6918.4	6652.0	6110.6	5651.5	5135.7	4676.5	4393.1	4259.9	4203.2	4206.0
25°	7060.1	7136.6	6632.1	5937.7	5308.5	4699.2	4259.9	4129.5	4118.2	4104.0	4109.7
27.5°	7369.0	7352.0	6572.6	5694.0	4846.6	4191.8	3967.9	4002.0	4047.3	4041.6	4047.3
30°	7782.8	7621.3	6496.1	5356.7	4296.7	3766.7	3795.1	3891.4	3950.9	3956.6	3973.6
32.5°	8256.2	7918.9	6374.2	4897.6	3772.4	3528.6	3633.5	3749.7	3820.6	3834.7	3857.4
35°	8820.2	8259.0	6158.8	4325.1	3395.4	3386.9	3483.3	3562.6	3639.2	3644.8	3644.8
37.5°	9469.2	8599.1	5815.9	3693.0	3163.0	3265.1	3355.7	3372.8	3392.6	3375.6	3384.1
40°	10064.4	8927.9	5328.4	3117.7	2973.1	3157.3	3233.9	3177.2	3114.8	3072.3	3080.8
42.5°	10563.2	9151.8	4682.2	2715.2	2780.4	3061.0	3120.5	3004.3	2882.4	2803.1	2814.4
45°	11124.4	9358.7	3922.6	2443.1	2616.0	2993.0	3032.6	2882.4	2726.5	2607.5	2590.5
47.5°	11898.2	9781.0	3248.0	2253.2	2499.8	2956.1	3021.3	2817.2	2613.2	2434.6	2414.8
50°	12853.3	10379.0	2684.0	2128.5	2446.0	2936.3	3018.5	2746.4	2502.6	2292.9	2278.7
52.5°	13896.3	10962.9	2267.4	2032.2	2392.1	2876.8	3004.3	2667.0	2386.4	2159.7	2142.7
55°	14590.7	11192.4	1986.8	1941.5	2304.2	2783.2	2947.6	2590.5	2210.7	2003.8	1978.3
57.5°	14794.8	10897.7	1791.2	1859.3	2190.9	2652.9	2839.9	2428.9	2103.0	1938.6	1918.8
60°	14443.3	10155.1	1669.4	1791.2	2066.2	2485.6	2652.9	2335.4	2018.0	1870.6	1856.4
62.5°	13451.3	9010.1	1575.8	1720.4	1938.6	2309.9	2533.8	2222.0	1924.5	1808.2	1788.4
65°	11456.0	7388.9	1499.3	1646.7	1816.8	2142.7	2403.4	2108.7	1822.4	1734.6	1711.9
67.5°	8012.4	5189.5	1417.1	1558.8	1694.9	1981.1	2267.4	2003.8	1717.6	1652.4	1629.7
70°	3916.9	2752.1	1317.9	1456.8	1564.5	1816.8	2131.4	1876.3	1578.7	1541.8	1510.7
72.5°	1864.9	1539.0	1201.7	1317.9	1385.9	1598.5	1904.6	1692.0	1414.3	1334.9	1281.1
75°	1249.9	1094.0	1048.7	1153.5	1170.5	1340.6	1632.5	1459.6	1247.1	1156.4	1111.0
77.5°	946.6	836.1	881.5	975.0	941.0	1102.5	1343.4	1300.9	1125.2	1043.0	1020.3
80°	666.0	609.4	700.1	756.7	731.2	938.1	1210.2	1113.9	926.8	836.1	819.1
82.5°	419.5	408.1	515.8	524.3	532.8	742.6	994.8	875.8	719.9	592.4	549.8
85°	209.7	232.4	308.9	308.9	306.1	382.6	566.8	493.2	388.3	308.9	300.4
87.5°	70.9	99.2	133.2	107.7	82.2	65.2	73.7	90.7	96.4	93.5	93.5
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)