

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: P643936

Luminaire Tested: GWS-SA6F-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39226.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

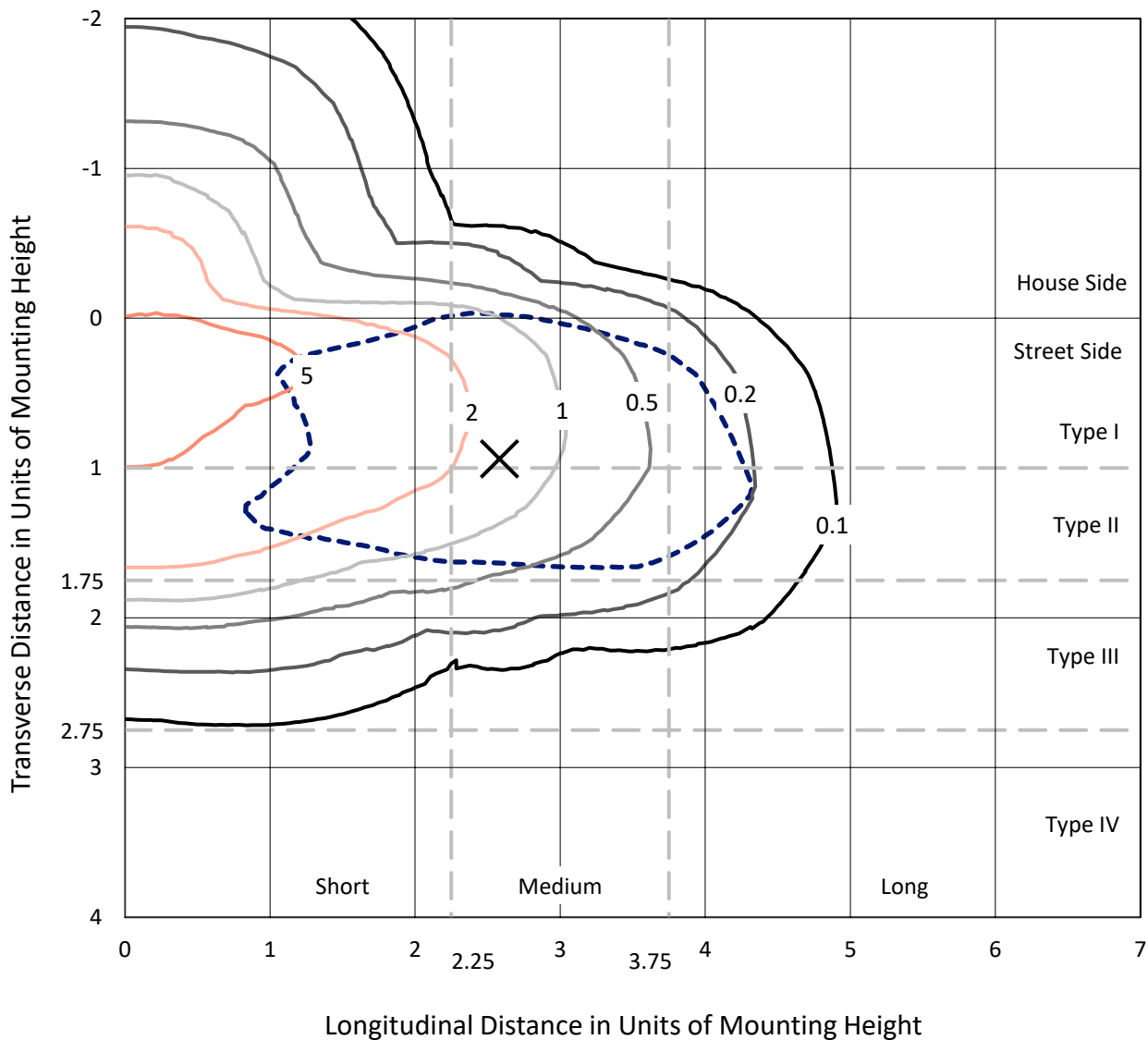
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

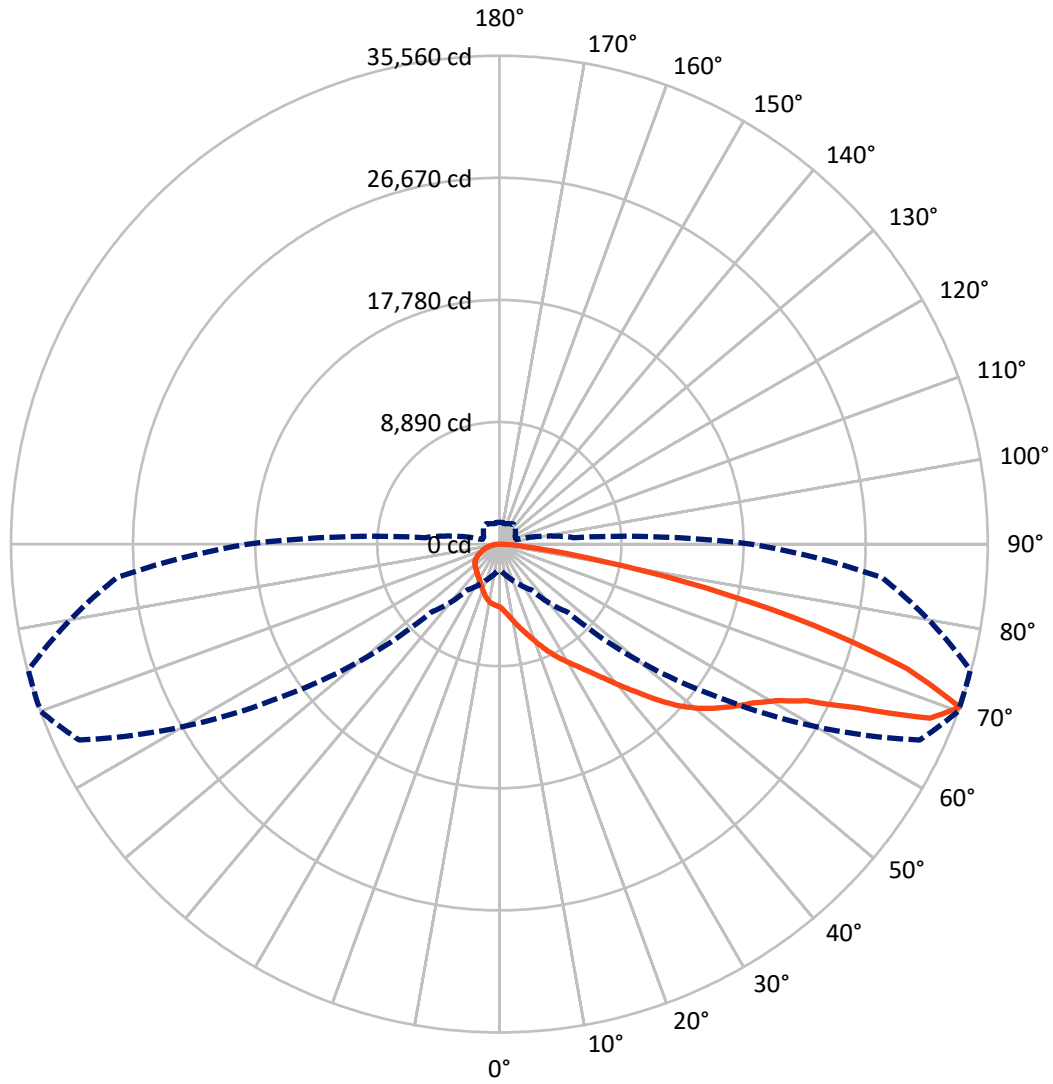
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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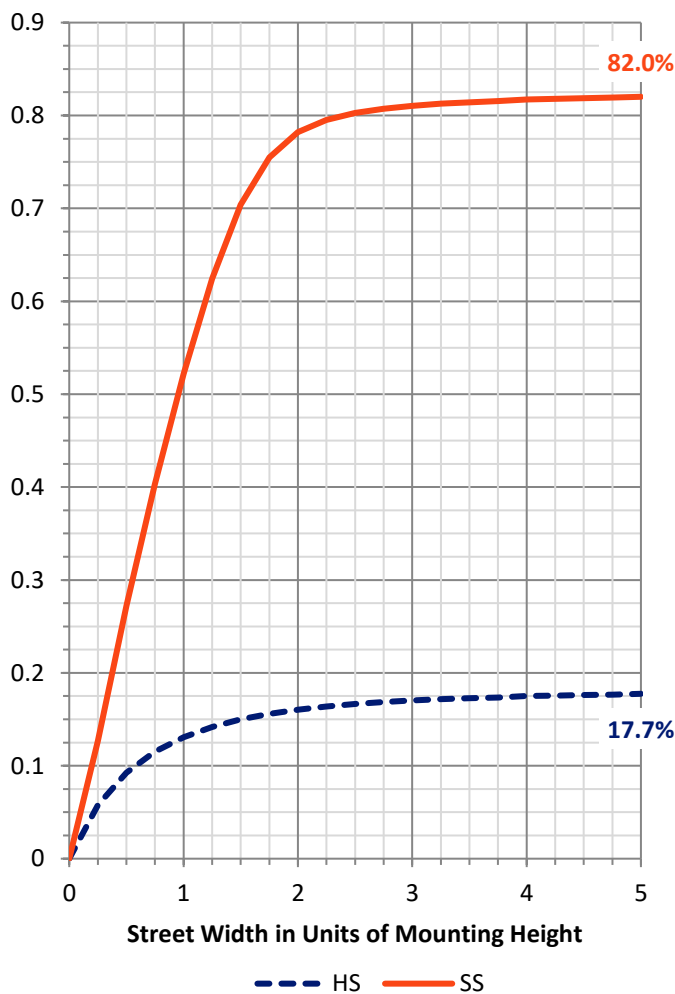
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7029.5	0.0	7029.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	32196.9	0.0	32196.9
	% Fixture	82.1	0.0	82.1
Total	Lumens	39226.4	0.0	39226.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	1.2
10°-20°	1512.5	3.9
20°-30°	2679.5	6.8
30°-40°	4032.7	10.3
40°-50°	6100.9	15.6
50°-60°	8739.9	22.3
60°-70°	9661.0	24.6
70°-80°	5451.9	13.9
80°-90°	583.2	1.5
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°	39226.4	100.0
0°-180°	39226.4	100.0

Coefficient of Utilization



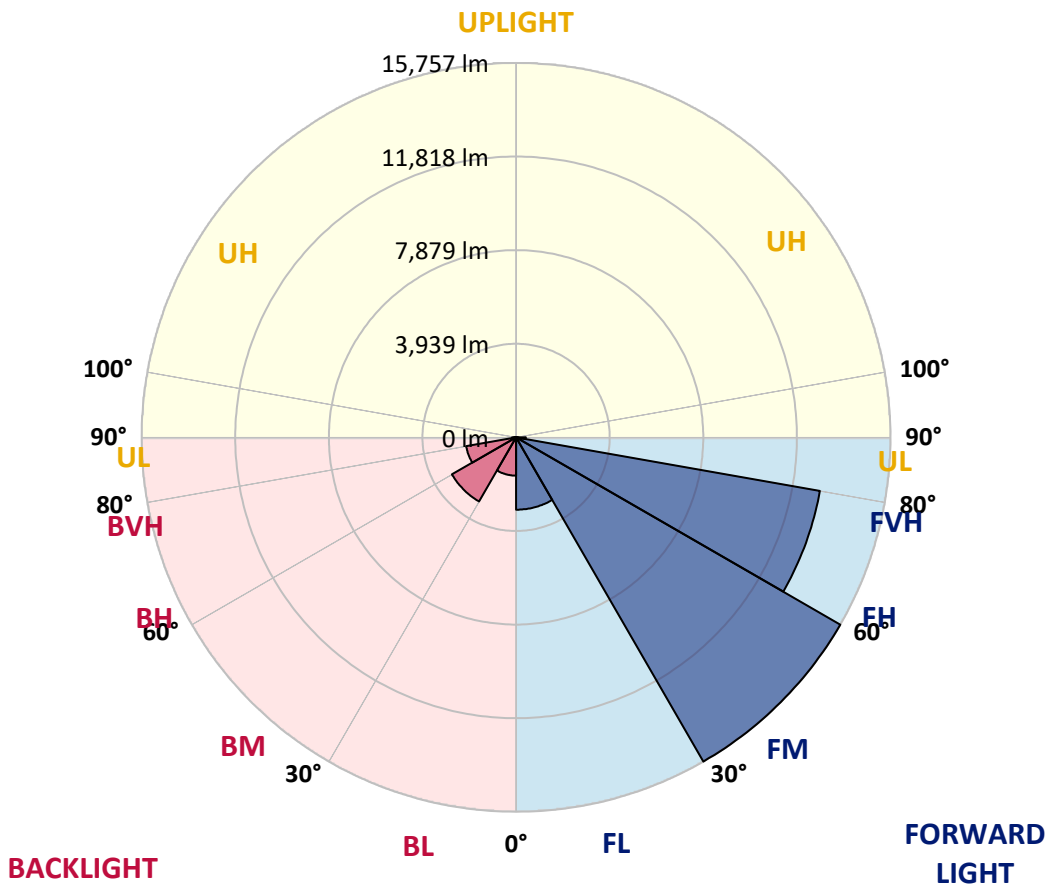
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3045.2	7.8			
FM (30°-60°)	15757.2	40.2			
FH (60°-80°)	12982.3	33.1			G5
FVH (80°-90°)	412.2	1.1			G3/500
BL (0°-30°)	1611.8	4.1	B3/2500		
BM (30°-60°)	3116.2	7.9	B3/5000		
BH (60°-80°)	2130.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	170.9	0.4			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6
2.5°	5067.8	5059.3	5064.9	5059.3	5028.1	4951.6	4889.2	4809.9	4756.0	4724.8	4651.1
5°	5663.0	5654.5	5634.7	5606.3	5549.6	5444.8	5288.9	5116.0	5011.1	4931.7	4775.8
7.5°	6091.0	6091.0	6088.1	6054.1	6014.5	5903.9	5719.7	5492.9	5339.9	5203.8	4948.7
10°	6309.2	6323.4	6343.2	6391.4	6382.9	6323.4	6150.5	5906.7	5714.0	5555.3	5175.5
12.5°	6428.3	6436.8	6470.8	6570.0	6672.0	6686.2	6584.2	6329.1	6119.3	5906.7	5427.7
15°	6581.3	6584.2	6629.5	6748.5	6898.8	7049.0	7023.5	6768.4	6553.0	6317.7	5708.3
17.5°	6700.4	6720.2	6802.4	6941.3	7128.3	7335.2	7460.0	7301.2	7034.8	6765.5	6014.5
20°	6742.9	6757.0	6864.8	7077.3	7332.4	7624.4	7902.1	7859.6	7590.3	7272.9	6360.2
22.5°	6895.9	6895.9	6975.3	7153.9	7454.3	7879.4	8330.1	8440.6	8202.6	7831.3	6731.5
25°	7233.2	7221.9	7258.7	7332.4	7559.2	8083.5	8752.4	9084.0	8817.6	8401.0	7102.8
27.5°	7695.2	7689.5	7686.7	7698.0	7774.6	8262.1	9109.5	9684.9	9418.5	8948.0	7434.5
30°	8196.9	8179.9	8216.7	8182.7	8165.7	8474.7	9412.8	10223.4	10016.5	9489.3	7709.4
32.5°	8880.0	8848.8	8840.3	8729.7	8661.7	8806.3	9656.6	10835.6	10671.3	10073.2	8018.3
35°	9781.3	9752.9	9608.4	9432.7	9231.4	9299.4	9959.8	11433.7	11445.0	10804.5	8423.6
37.5°	10691.1	10696.8	10583.4	10169.6	9962.7	9923.0	10421.8	12162.1	12405.9	11677.4	8948.0
40°	11447.9	11481.9	11481.9	11045.4	10736.4	10699.6	11070.9	13026.6	13511.3	12748.8	9611.2
42.5°	12023.2	12054.4	12153.6	11839.0	11513.1	11640.6	11858.8	13893.9	14764.0	14072.5	10450.2
45°	12655.3	12680.8	12734.7	12553.3	12363.4	12703.5	12751.7	14931.3	16198.2	15557.6	11425.2
47.5°	13494.3	13471.6	13477.2	13344.0	13196.6	13746.5	13735.2	15804.2	17584.2	17184.6	12482.4
50°	14537.3	14579.8	14540.1	14276.5	14103.6	14605.3	14670.5	16770.7	18803.0	18794.5	13548.1
52.5°	15540.6	15557.6	15767.4	15778.7	15424.4	15319.6	15489.6	17745.7	19831.8	20268.3	14571.3
55°	15591.7	15656.8	16286.1	16739.6	17312.1	16470.3	16317.2	18675.4	20826.7	21711.0	15634.2
57.5°	14506.1	14611.0	15679.5	16657.4	18250.3	18445.8	17734.4	19877.2	21821.5	23131.0	16864.3
60°	12187.6	12405.9	13857.0	15353.6	17827.9	19865.8	20633.9	21509.7	23128.1	24582.2	18358.0
62.5°	7783.1	7868.1	9903.2	12408.7	15926.1	19726.9	23791.4	24386.6	25117.8	26472.7	20659.4
65°	3897.2	4169.3	5362.6	7406.1	11484.7	17383.0	25387.1	29655.6	28760.0	29709.5	24389.4
67.5°	2644.4	2732.3	3336.0	4449.9	6734.4	12315.2	24397.9	34094.2	33830.6	33986.5	28366.0
70°	1950.0	2006.7	2482.9	3151.8	4072.9	6992.3	19423.7	33759.7	35559.5	35502.8	27949.3
72.5°	1422.8	1451.2	1811.1	2406.3	3018.6	3616.6	11861.7	27271.9	31041.6	32677.0	24443.3
75°	1034.5	1068.5	1258.4	1799.8	2346.8	2256.1	5855.7	19698.6	23672.3	26818.4	19914.0
77.5°	770.9	813.5	901.3	1128.1	1643.9	1615.6	2531.1	12791.3	15311.1	17516.2	12096.9
80°	555.5	564.0	615.0	722.8	1043.0	946.7	1204.6	6669.2	7647.0	8378.3	4741.8
82.5°	337.3	345.8	411.0	445.0	646.2	595.2	626.4	2159.8	3095.1	3285.0	1771.5
85°	99.2	104.9	187.1	204.1	269.3	255.1	252.3	878.6	1048.7	1340.6	697.2
87.5°	0.0	0.0	0.0	0.0	2.8	17.0	31.2	155.9	235.2	325.9	170.1
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°	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6	4574.6
2.5°	4622.8	4557.6	4523.6	4464.1	4421.6	4379.0	4336.5	4296.8	4279.8	4254.3	4260.0
5°	4705.0	4603.0	4500.9	4384.7	4285.5	4203.3	4129.6	4064.4	4036.1	4010.6	4021.9
7.5°	4829.7	4676.6	4481.1	4268.5	4112.6	3999.2	3922.7	3877.4	3863.2	3843.4	3843.4
10°	4988.4	4758.8	4415.9	4112.6	3925.5	3834.9	3800.8	3798.0	3812.2	3815.0	3809.3
12.5°	5164.2	4838.2	4319.5	3928.4	3769.7	3741.3	3766.8	3815.0	3863.2	3888.7	3883.0
15°	5345.5	4889.2	4155.1	3752.7	3656.3	3693.1	3775.3	3871.7	3965.2	4013.4	4010.6
17.5°	5515.6	4900.6	3942.6	3582.6	3557.1	3650.6	3792.3	3942.6	4070.1	4138.1	4141.0
20°	5705.5	4880.7	3724.3	3429.5	3457.9	3610.9	3798.0	3979.4	4129.6	4197.6	4214.7
22.5°	5878.4	4812.7	3511.7	3285.0	3372.9	3562.8	3752.7	3922.7	4055.9	4121.1	4143.8
25°	6034.3	4682.3	3279.3	3163.1	3307.7	3494.7	3639.3	3758.3	3851.9	3891.5	3922.7
27.5°	6119.3	4486.7	3103.6	3066.7	3245.3	3398.4	3477.7	3514.6	3545.7	3534.4	3557.1
30°	6136.3	4243.0	2950.5	2990.2	3151.8	3265.1	3282.2	3245.3	3191.5	3103.6	3123.4
32.5°	6119.3	3962.4	2823.0	2908.0	3046.9	3114.9	3092.3	2995.9	2865.5	2729.5	2738.0
35°	6125.0	3679.0	2718.1	2817.3	2925.0	2961.9	2905.2	2772.0	2633.1	2508.4	2502.7
37.5°	6187.3	3440.9	2630.3	2729.5	2806.0	2811.7	2749.3	2610.4	2539.6	2446.0	2434.7
40°	6360.2	3265.1	2550.9	2641.6	2689.8	2686.9	2616.1	2516.9	2565.1	2533.9	2525.4
42.5°	6643.7	3157.4	2485.7	2548.1	2582.1	2587.7	2531.1	2468.7	2573.6	2533.9	2519.7
45°	7100.0	3151.8	2440.4	2454.5	2508.4	2548.1	2508.4	2437.5	2477.2	2284.5	2247.6
47.5°	7641.4	3248.1	2406.3	2372.3	2465.9	2536.7	2474.4	2361.0	2278.8	2103.1	2077.6
50°	8293.3	3443.7	2375.2	2284.5	2403.5	2494.2	2431.9	2276.0	2151.3	2057.7	2043.6
52.5°	9067.0	3701.6	2335.5	2185.3	2310.0	2471.5	2431.9	2267.5	2103.1	2018.0	2003.9
55°	9877.6	3999.2	2290.1	2066.2	2205.1	2477.2	2451.7	2207.9	2066.2	2020.9	2009.5
57.5°	10883.8	4356.4	2207.9	1927.3	2111.6	2426.2	2372.3	2173.9	2040.7	2003.9	1992.5
60°	12190.5	4886.4	2052.1	1785.6	2003.9	2335.5	2301.5	2117.2	1972.7	1941.5	1933.0
62.5°	14259.5	5784.9	1862.2	1649.6	1876.3	2145.6	2196.6	2009.5	1887.7	1884.8	1882.0
65°	17632.4	6864.8	1638.2	1527.7	1743.1	1989.7	2057.7	1899.0	1799.8	1831.0	1828.1
67.5°	19996.2	6958.3	1454.0	1400.2	1587.2	1819.6	1918.8	1785.6	1677.9	1737.4	1734.6
70°	18315.4	5427.7	1295.3	1266.9	1420.0	1635.4	1768.6	1643.9	1536.2	1592.9	1581.6
72.5°	15447.1	4160.8	1145.1	1128.1	1249.9	1442.7	1575.9	1502.2	1388.8	1388.8	1363.3
75°	12414.4	3432.4	986.3	977.8	1060.0	1247.1	1397.3	1272.6	1167.7	1162.1	1145.1
77.5°	7119.8	2250.5	827.6	822.0	847.5	1043.0	1085.5	1060.0	980.7	943.8	932.5
80°	2837.2	1170.6	651.9	615.0	640.6	765.3	856.0	813.5	745.4	700.1	674.6
82.5°	1099.7	586.7	459.2	402.5	439.3	552.7	620.7	606.5	561.2	459.2	430.8
85°	447.8	286.3	274.9	232.4	255.1	297.6	357.1	308.9	255.1	181.4	172.9
87.5°	119.0	104.9	102.0	62.4	48.2	14.2	2.8	0.0	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)