

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: P642245

Luminaire Tested: GWS-SA6C-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642245
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-SA6C-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27426.8 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

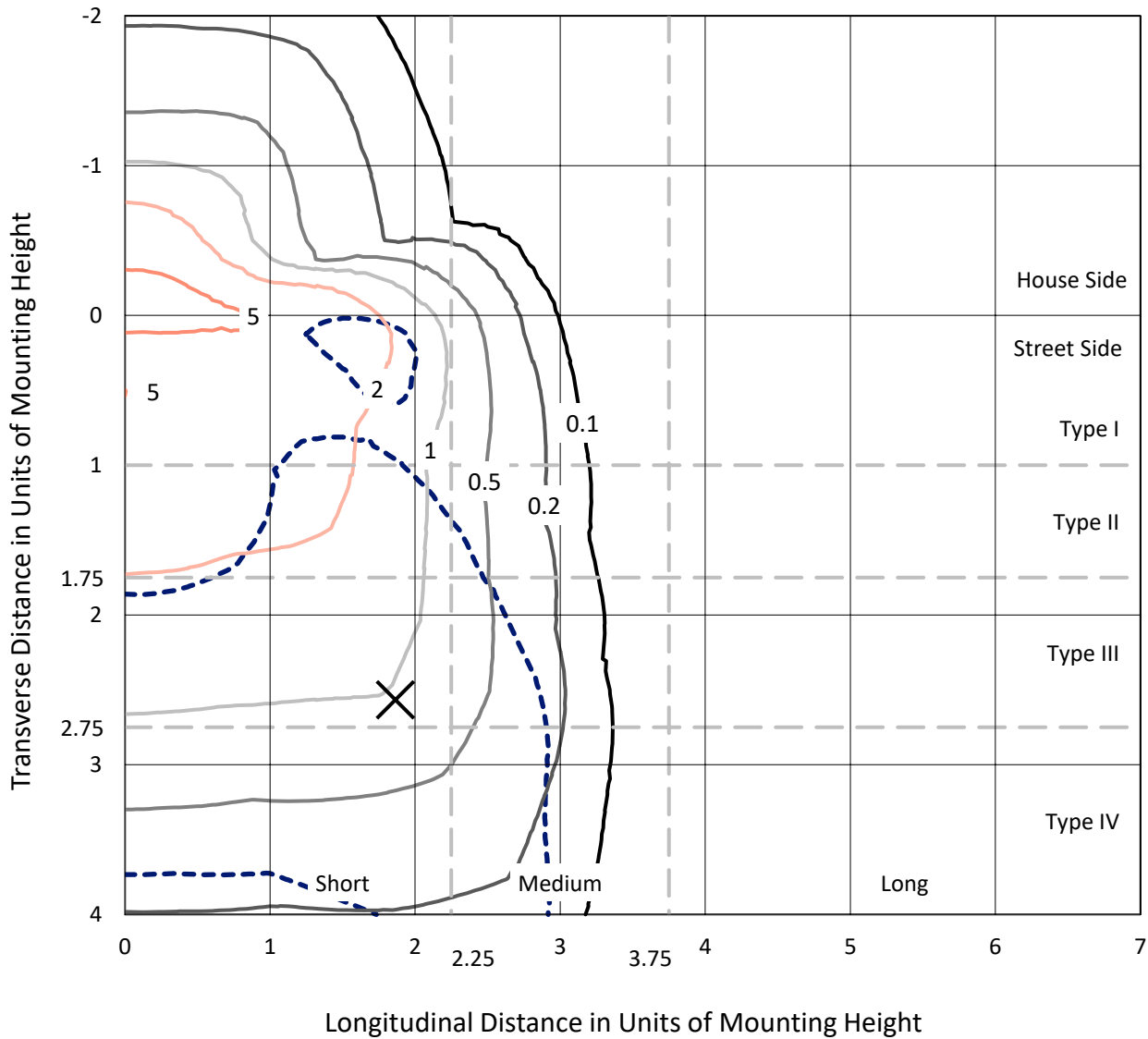
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

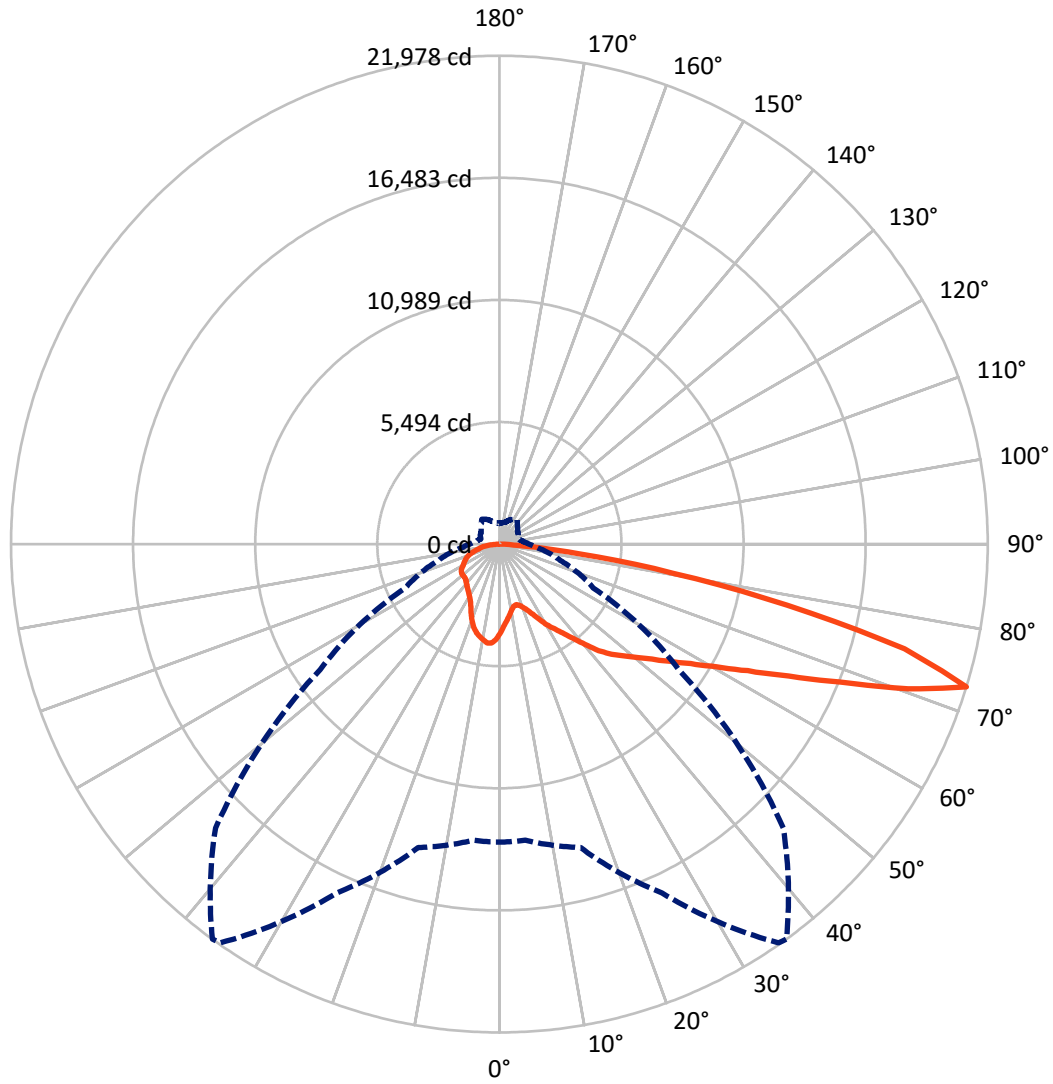
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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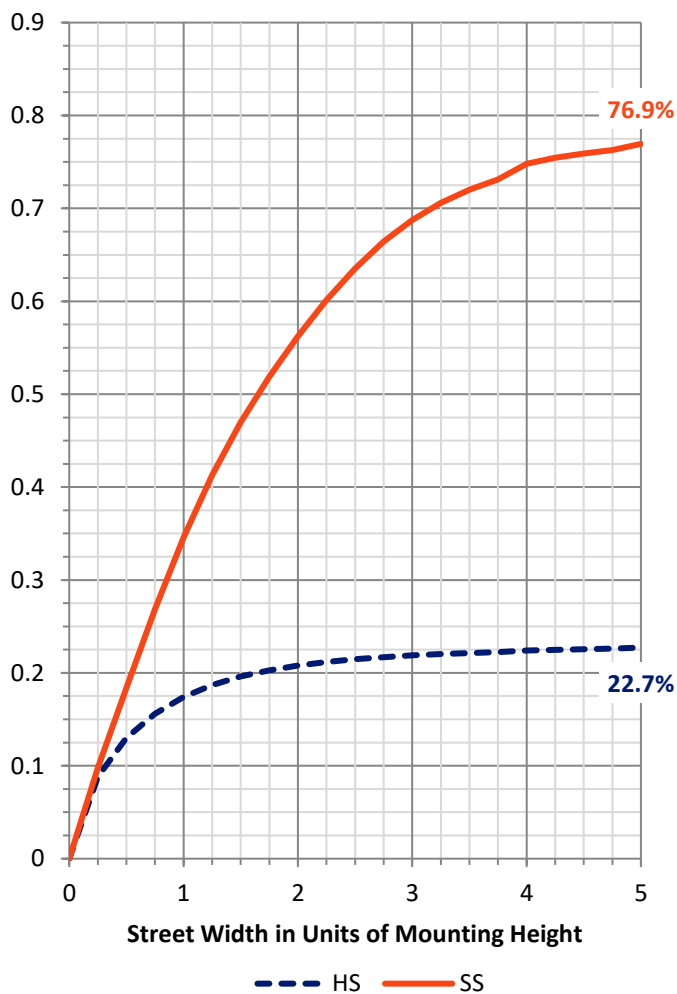
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6323.1	0.0	6323.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	21103.7	0.0	21103.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	27426.8	0.0	27426.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.2	1.4
10°-20°	1058.6	3.9
20°-30°	1753.2	6.4
30°-40°	2625.5	9.6
40°-50°	3830.4	14.0
50°-60°	5451.8	19.9
60°-70°	6888.0	25.1
70°-80°	4908.3	17.9
80°-90°	535.8	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°	27426.8	100.0
0°-180°	27426.8	100.0

Coefficient of Utilization



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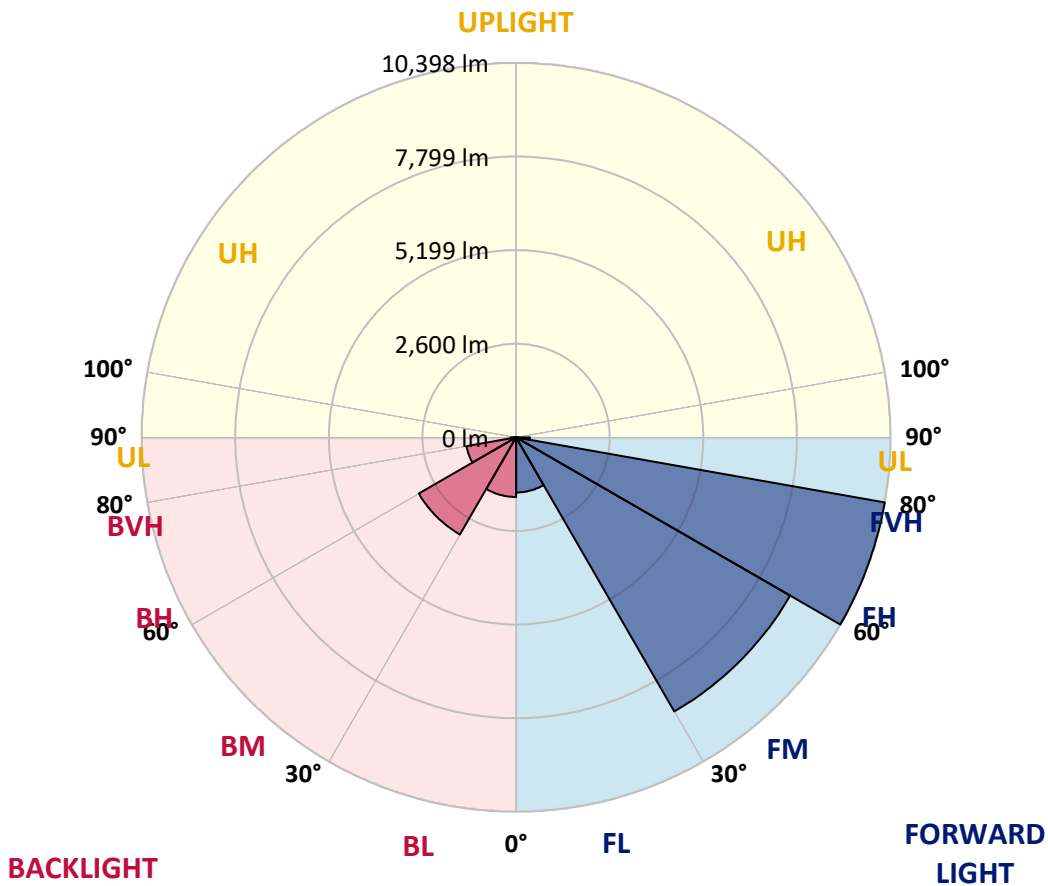
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.2	5.6			
FM (30°-60°)	8789.6	32.0			
FH (60°-80°)	10398.4	37.9			G4/12000
FVH (80°-90°)	384.6	1.4			G3/500
BL (0°-30°)	1655.8	6.0	B3/2500		
BM (30°-60°)	3118.2	11.4	B3/5000		
BH (60°-80°)	1397.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	151.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0
2.5°	3661.9	3655.8	3643.6	3680.2	3716.8	3712.8	3763.7	3812.5	3865.4	3920.4	3993.7
5°	3368.8	3364.7	3354.5	3409.5	3464.4	3462.4	3545.9	3625.3	3733.1	3851.2	3997.8
7.5°	3075.7	3065.5	3079.7	3148.9	3226.3	3234.4	3348.4	3478.7	3635.4	3812.5	4020.1
10°	2817.2	2815.1	2821.2	2898.6	3014.6	3022.7	3169.3	3350.5	3558.1	3794.2	4071.0
12.5°	2750.0	2745.9	2729.6	2768.3	2855.8	2868.0	3028.8	3250.7	3505.2	3804.4	4140.2
15°	2859.9	2849.7	2792.7	2774.4	2817.2	2827.3	2963.7	3191.7	3474.6	3822.7	4227.8
17.5°	3049.2	3043.1	2935.2	2859.9	2888.4	2896.5	2998.3	3181.5	3466.5	3859.3	4335.6
20°	3326.0	3299.6	3130.6	3016.6	3016.6	3028.8	3089.9	3226.3	3476.7	3904.1	4457.8
22.5°	3692.4	3639.5	3401.3	3246.6	3205.9	3222.2	3248.7	3338.2	3519.4	3979.4	4610.4
25°	4103.6	4054.7	3771.8	3554.0	3497.0	3503.1	3480.7	3497.0	3613.0	4083.2	4799.7
27.5°	4541.2	4508.7	4207.4	3930.6	3841.0	3841.0	3761.6	3723.0	3743.3	4201.3	5011.4
30°	4932.1	4887.3	4632.8	4329.5	4211.5	4211.5	4060.9	3977.4	3928.5	4345.8	5294.4
32.5°	5137.6	5111.2	4942.2	4710.2	4565.7	4543.3	4413.0	4315.3	4201.3	4559.6	5677.1
35°	5406.3	5400.2	5298.4	5117.3	4934.1	4901.5	4812.0	4734.6	4537.2	4826.2	6185.9
37.5°	5744.2	5734.0	5717.8	5609.9	5390.0	5383.9	5304.6	5210.9	4954.4	5210.9	6802.7
40°	6122.8	6104.5	6084.2	6082.1	5949.8	5927.4	5921.3	5815.5	5457.2	5675.0	7445.9
42.5°	6643.9	6580.8	6389.5	6475.0	6572.7	6552.3	6629.7	6470.9	6084.2	6226.6	8054.5
45°	7285.1	7130.4	6751.8	6776.2	7022.5	7063.2	7331.9	7293.2	6774.2	6863.8	8695.7
47.5°	7669.8	7535.5	7183.3	7163.0	7470.3	7521.2	8105.4	8178.7	7517.2	7631.1	9487.5
50°	7985.3	7891.7	7602.6	7631.1	7956.8	8007.7	8872.8	9029.5	8217.4	8416.9	10407.6
52.5°	8366.0	8231.6	8007.7	8142.1	8541.0	8602.1	9725.7	9894.6	8848.4	9279.9	11360.2
55°	8579.7	8524.7	8528.8	8734.4	9235.1	9318.6	10619.3	10590.8	9426.5	10018.8	12076.7
57.5°	9072.3	9051.9	9239.2	9316.6	10045.3	10153.1	11512.9	11268.6	9951.6	10590.8	12420.7
60°	9941.5	9890.6	10053.4	10171.5	11046.7	11199.4	12510.3	11932.2	10307.8	11016.2	12304.7
62.5°	11162.8	11099.7	11105.8	11293.0	12388.1	12548.9	13619.6	12485.8	10417.8	11081.3	11569.9
65°	12681.3	12589.7	12485.8	12740.3	14169.2	14303.6	14826.7	12888.9	10155.2	10454.4	10035.1
67.5°	14283.2	14207.9	14085.8	14619.1	16475.5	16556.9	16180.3	12854.3	9322.7	8777.1	7038.8
70°	14376.8	14395.2	14973.2	16902.9	19486.0	19506.3	17460.6	12158.1	7549.7	5689.3	3507.2
72.5°	13412.0	13381.5	14134.6	17320.2	21908.2	21977.5	18065.2	9849.9	4665.4	2837.5	1644.7
75°	10894.1	10947.0	11738.8	15154.4	18777.6	18838.7	14726.9	5807.3	2216.7	1388.2	1052.4
77.5°	4689.8	4985.0	6546.2	10676.3	13448.6	13259.3	7590.4	2353.1	1182.6	989.3	806.1
80°	1353.6	1469.6	2332.7	5076.6	8058.6	7916.1	3004.4	881.4	824.4	743.0	578.1
82.5°	437.6	484.5	854.9	2021.3	3611.0	3606.9	1139.9	521.1	539.4	504.8	372.5
85°	122.1	140.5	262.6	612.7	1117.5	1095.1	329.8	246.3	287.0	291.1	185.2
87.5°	0.0	0.0	2.0	4.1	4.1	4.1	8.1	36.6	83.5	105.8	75.3
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°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0
2.5°	4038.5	4032.4	4115.8	4180.9	4242.0	4282.7	4294.9	4303.1	4319.4	4327.5	4319.4
5°	4067.0	4097.5	4235.9	4337.7	4419.1	4468.0	4470.0	4465.9	4478.1	4468.0	4461.8
7.5°	4128.0	4187.1	4362.1	4470.0	4522.9	4524.9	4476.1	4419.1	4390.6	4366.2	4358.0
10°	4209.4	4297.0	4488.3	4559.6	4543.3	4468.0	4360.1	4270.5	4219.6	4183.0	4174.8
12.5°	4321.4	4419.1	4600.3	4598.2	4496.5	4362.1	4235.9	4128.0	4054.7	4012.0	3997.8
15°	4427.2	4551.4	4681.7	4586.0	4425.2	4262.4	4099.5	3955.0	3857.3	3790.1	3777.9
17.5°	4557.5	4689.8	4740.7	4547.3	4335.6	4126.0	3908.2	3718.9	3586.6	3507.2	3501.1
20°	4708.1	4826.2	4769.2	4480.2	4219.6	3944.8	3649.7	3438.0	3295.5	3218.1	3224.3
22.5°	4883.2	4968.7	4777.4	4388.6	4058.8	3688.4	3358.6	3155.0	3059.4	3018.7	3020.7
25°	5070.5	5125.4	4763.1	4264.4	3812.5	3374.9	3059.4	2965.7	2957.6	2947.4	2951.5
27.5°	5292.3	5280.1	4720.4	4089.3	3480.7	3010.5	2849.7	2874.1	2906.7	2902.6	2906.7
30°	5589.5	5473.5	4665.4	3847.1	3085.8	2705.2	2725.6	2794.8	2837.5	2841.6	2853.8
32.5°	5929.5	5687.2	4577.9	3517.4	2709.3	2534.2	2609.5	2693.0	2743.9	2754.1	2770.3
35°	6334.5	5931.5	4423.2	3106.2	2438.5	2432.4	2501.6	2558.6	2613.6	2617.7	2617.7
37.5°	6800.7	6175.8	4176.9	2652.3	2271.6	2344.9	2410.0	2422.3	2436.5	2424.3	2430.4
40°	7228.1	6411.9	3826.8	2239.1	2135.3	2267.6	2322.5	2281.8	2237.0	2206.5	2212.6
42.5°	7586.4	6572.7	3362.7	1950.0	1996.8	2198.4	2241.1	2157.6	2070.1	2013.1	2021.3
45°	7989.4	6721.3	2817.2	1754.6	1878.8	2149.5	2178.0	2070.1	1958.2	1872.7	1860.5
47.5°	8545.1	7024.6	2332.7	1618.2	1795.3	2123.0	2169.9	2023.3	1876.7	1748.5	1734.3
50°	9231.1	7454.1	1927.6	1528.7	1756.6	2108.8	2167.8	1972.4	1797.4	1646.7	1636.6
52.5°	9980.1	7873.4	1628.4	1459.5	1718.0	2066.0	2157.6	1915.4	1713.9	1551.1	1538.8
55°	10478.8	8038.2	1426.9	1394.3	1654.9	1998.9	2116.9	1860.5	1587.7	1439.1	1420.8
57.5°	10625.4	7826.6	1286.4	1335.3	1573.5	1905.2	2039.6	1744.4	1510.4	1392.3	1378.0
60°	10373.0	7293.2	1198.9	1286.4	1483.9	1785.1	1905.2	1677.3	1449.3	1343.4	1333.3
62.5°	9660.6	6470.9	1131.7	1235.6	1392.3	1658.9	1819.8	1595.8	1382.1	1298.7	1284.4
65°	8227.6	5306.6	1076.8	1182.6	1304.8	1538.8	1726.1	1514.4	1308.8	1245.7	1229.5
67.5°	5754.4	3727.0	1017.8	1119.5	1217.2	1422.8	1628.4	1439.1	1233.5	1186.7	1170.4
70°	2813.1	1976.5	946.5	1046.3	1123.6	1304.8	1530.7	1347.5	1133.8	1107.3	1084.9
72.5°	1339.4	1105.3	863.1	946.5	995.4	1148.0	1367.9	1215.2	1015.7	958.7	920.1
75°	897.7	785.7	753.1	828.5	840.7	962.8	1172.5	1048.3	895.6	830.5	797.9
77.5°	679.9	600.5	633.0	700.2	675.8	791.8	964.8	934.3	808.1	749.1	732.8
80°	478.3	437.6	502.8	543.5	525.2	673.8	869.2	800.0	665.6	600.5	588.3
82.5°	301.3	293.1	370.5	376.6	382.7	533.3	714.5	629.0	517.0	425.4	394.9
85°	150.6	166.9	221.9	221.9	219.8	274.8	407.1	354.2	278.9	221.9	215.8
87.5°	50.9	71.2	95.7	77.3	59.0	46.8	52.9	65.1	69.2	67.2	67.2
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)