

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: P638876

Luminaire Tested: GWS-SA4F-760-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638876
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-SA4F-760-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34057.8 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

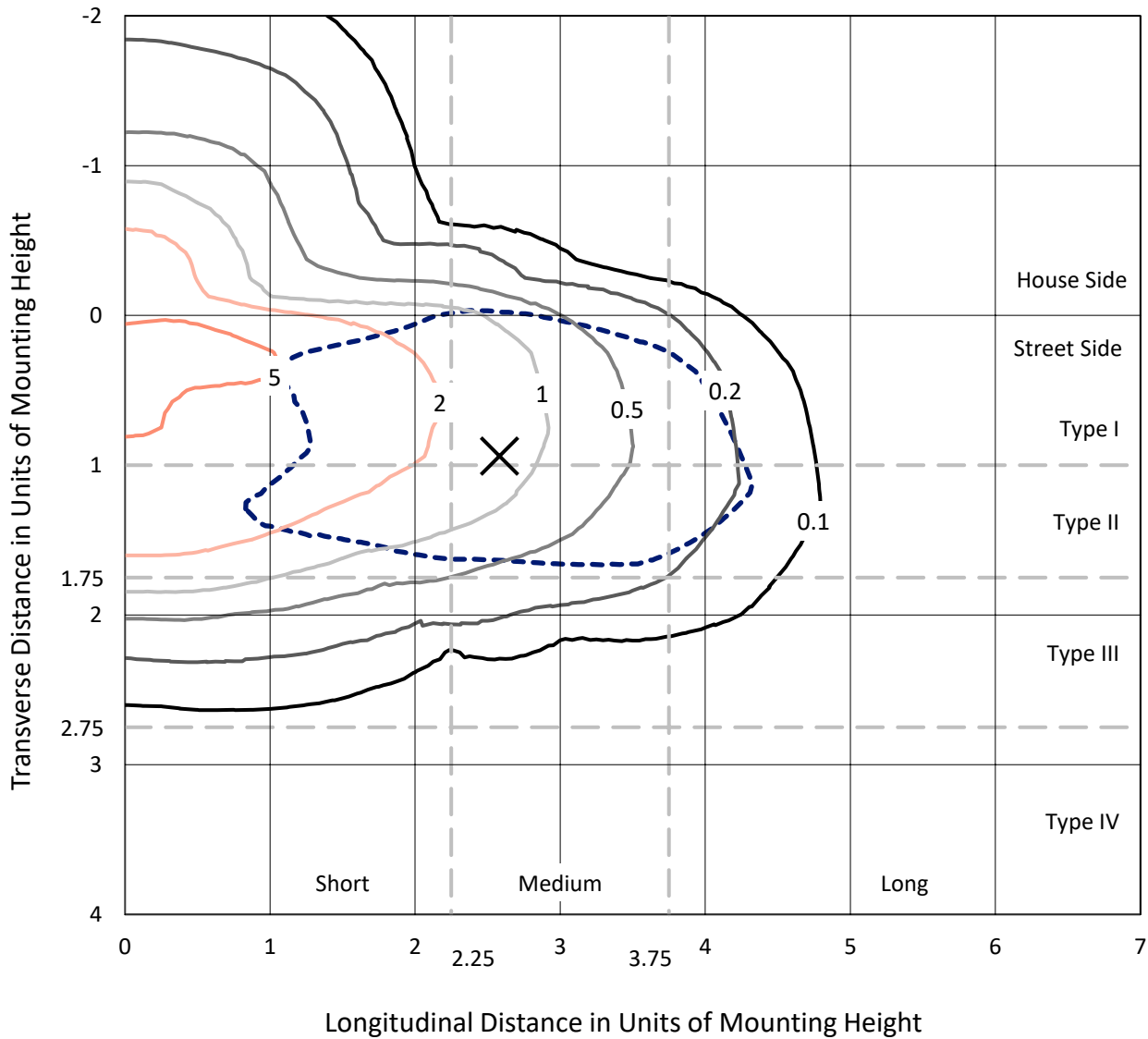
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

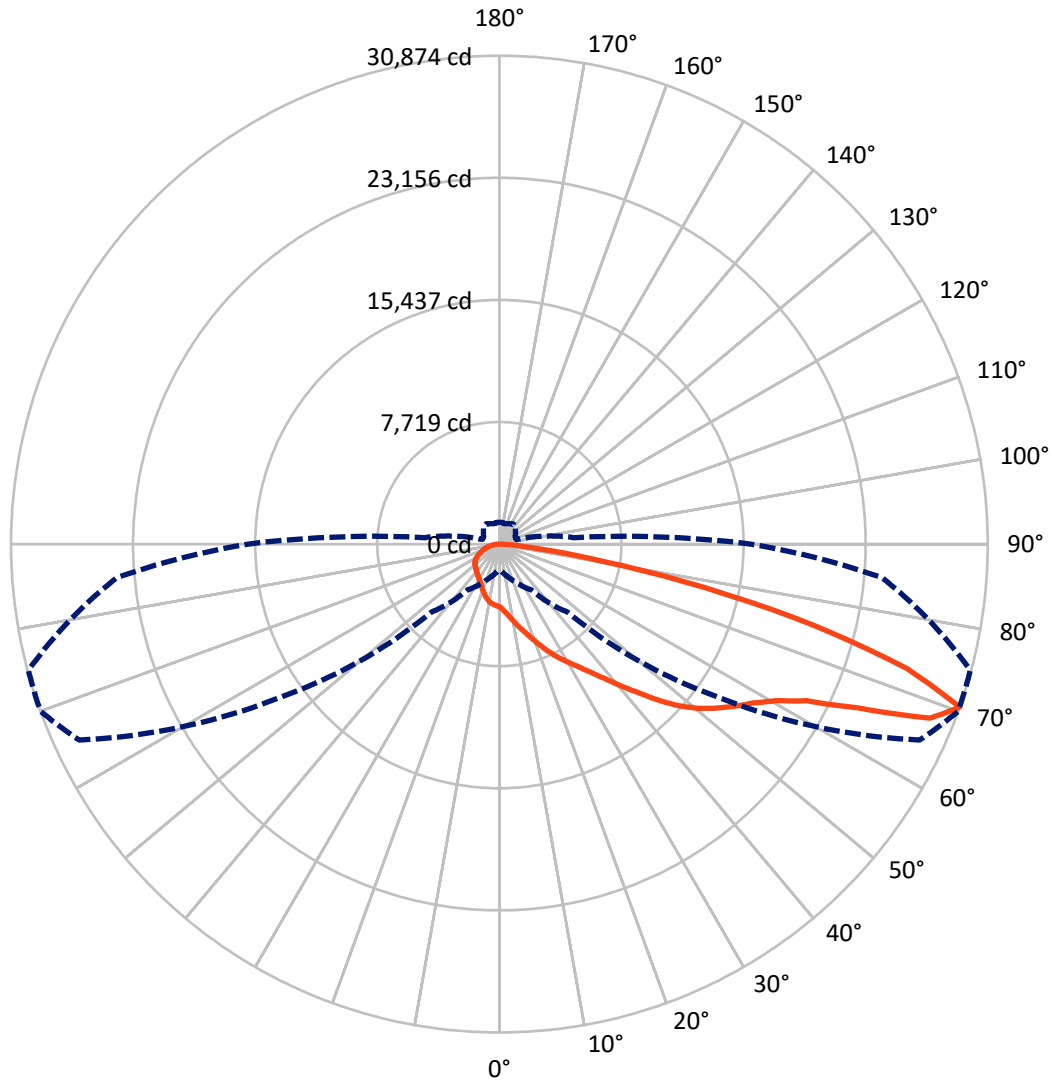
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	6103.2	0.0	6103.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	27954.6	0.0	27954.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	34057.8	0.0	34057.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	1.2
10°-20°	1313.2	3.9
20°-30°	2326.4	6.8
30°-40°	3501.3	10.3
40°-50°	5297.0	15.6
50°-60°	7588.3	22.3
60°-70°	8388.0	24.6
70°-80°	4733.6	13.9
80°-90°	506.3	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°	34057.8	100.0
0°-180°	34057.8	100.0

Coefficient of Utilization



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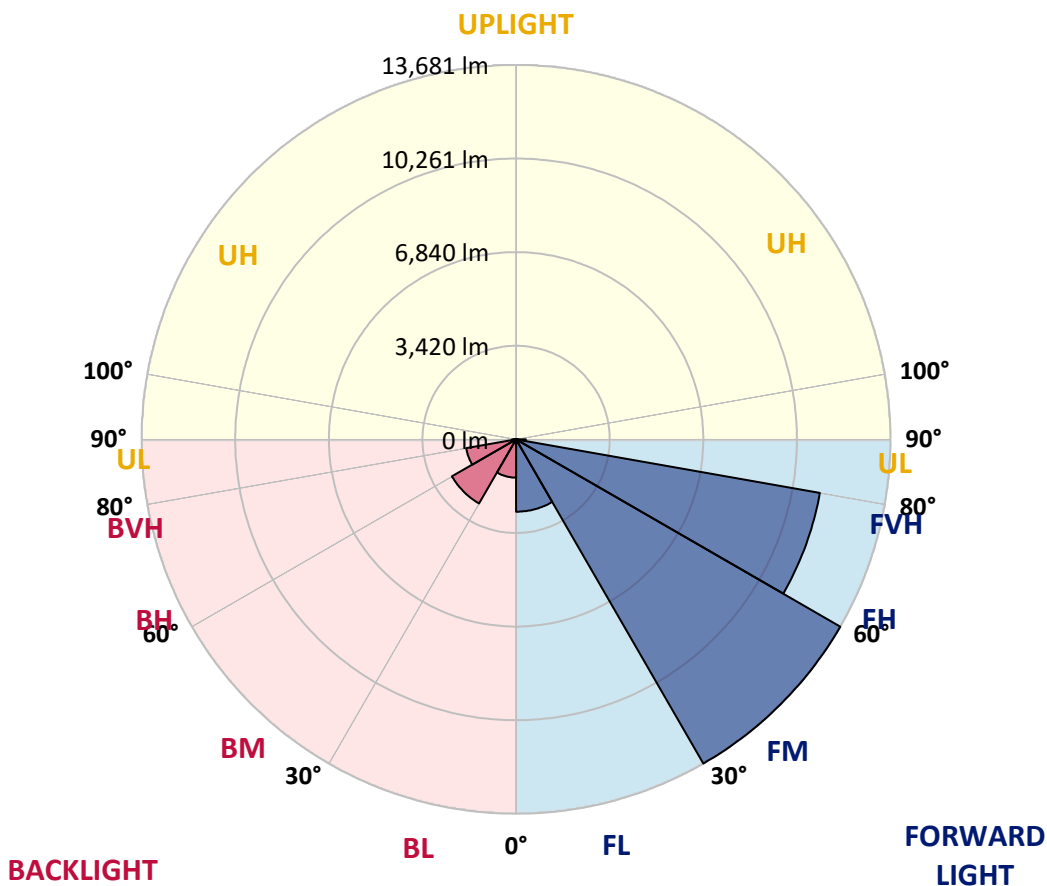
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.9	7.8			
FM (30°-60°)	13681.0	40.2			
FH (60°-80°)	11271.7	33.1			G4/12000
FVH (80°-90°)	357.9	1.1			G3/500
BL (0°-30°)	1399.4	4.1	B3/2500		
BM (30°-60°)	2705.6	7.9	B3/5000		
BH (60°-80°)	1849.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	148.4	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8
2.5°	4400.0	4392.7	4397.6	4392.7	4365.6	4299.1	4245.0	4176.1	4129.3	4102.3	4038.3
5°	4916.8	4909.4	4892.2	4867.6	4818.4	4727.3	4592.0	4441.9	4350.8	4281.9	4146.6
7.5°	5288.4	5288.4	5285.9	5256.4	5222.0	5126.0	4966.0	4769.2	4636.3	4518.2	4296.7
10°	5477.9	5490.2	5507.4	5549.3	5541.9	5490.2	5340.1	5128.5	4961.1	4823.3	4493.5
12.5°	5581.3	5588.6	5618.2	5704.3	5792.9	5805.2	5716.6	5495.1	5313.0	5128.5	4712.6
15°	5714.1	5716.6	5756.0	5859.3	5989.8	6120.2	6098.0	5876.6	5689.5	5485.3	4956.2
17.5°	5817.5	5834.7	5906.1	6026.7	6189.1	6368.7	6477.0	6339.2	6107.9	5874.1	5222.0
20°	5854.4	5866.7	5960.2	6144.8	6366.3	6619.7	6860.9	6824.0	6590.2	6314.6	5522.2
22.5°	5987.3	5987.3	6056.2	6211.2	6472.1	6841.2	7232.5	7328.5	7121.8	6799.4	5844.6
25°	6280.1	6270.3	6302.3	6366.3	6563.1	7018.4	7599.2	7887.1	7655.8	7294.0	6166.9
27.5°	6681.3	6676.3	6673.9	6683.7	6750.2	7173.4	7909.2	8408.8	8177.5	7769.0	6454.9
30°	7116.8	7102.1	7134.1	7104.5	7089.8	7358.0	8172.6	8876.4	8696.7	8239.0	6693.6
32.5°	7709.9	7682.8	7675.5	7579.5	7520.4	7645.9	8384.2	9407.9	9265.2	8745.9	6961.8
35°	8492.5	8467.9	8342.4	8189.8	8015.1	8074.1	8647.5	9927.2	9937.0	9380.8	7313.7
37.5°	9282.4	9287.3	9188.9	8829.6	8650.0	8615.5	9048.6	10559.6	10771.2	10138.8	7769.0
40°	9939.5	9969.0	9969.0	9590.0	9321.8	9289.8	9612.2	11310.2	11731.0	11069.0	8344.8
42.5°	10439.0	10466.1	10552.2	10279.1	9996.1	10106.8	10296.3	12063.2	12818.7	12218.2	9073.2
45°	10987.8	11009.9	11056.7	10899.2	10734.3	11029.6	11071.5	12963.9	14063.9	13507.7	9919.8
47.5°	11716.2	11696.5	11701.4	11585.8	11457.8	11935.2	11925.4	13721.8	15267.2	14920.3	10837.7
50°	12621.8	12658.7	12624.3	12395.4	12245.3	12680.9	12737.5	14561.0	16325.4	16318.0	11763.0
52.5°	13493.0	13507.7	13689.8	13699.7	13392.1	13301.0	13448.7	15407.5	17218.7	17597.7	12651.3
55°	13537.2	13593.8	14140.2	14533.9	15031.0	14300.1	14167.2	16214.7	18082.5	18850.3	13574.2
57.5°	12594.7	12685.8	13613.5	14462.5	15845.5	16015.3	15397.7	17258.1	18946.2	20083.2	14642.2
60°	10581.7	10771.2	12031.2	13330.5	15478.9	17248.2	17915.1	18675.5	20080.7	21343.1	15939.1
62.5°	6757.5	6831.4	8598.3	10773.7	13827.6	17127.7	20656.5	21173.3	21808.2	22984.5	17937.3
65°	3383.7	3619.9	4656.0	6430.3	9971.4	15092.5	22042.0	25748.1	24970.5	25794.8	21175.8
67.5°	2296.0	2372.3	2896.4	3863.6	5847.0	10692.5	21183.2	29601.8	29372.9	29508.3	24628.4
70°	1693.1	1742.3	2155.7	2736.5	3536.3	6071.0	16864.3	29311.4	30874.1	30824.9	24266.6
72.5°	1235.4	1260.0	1572.5	2089.3	2620.8	3140.1	10298.7	23678.5	26951.5	28371.4	21222.5
75°	898.2	927.7	1092.6	1562.7	2037.6	1958.9	5084.2	17103.0	20553.2	23284.8	17290.1
77.5°	669.4	706.3	782.6	979.4	1427.3	1402.7	2197.6	11105.9	13293.6	15208.2	10503.0
80°	482.3	489.7	534.0	627.5	905.6	821.9	1045.9	5790.4	6639.4	7274.3	4117.0
82.5°	292.8	300.2	356.8	386.4	561.1	516.8	543.9	1875.2	2687.3	2852.1	1538.0
85°	86.1	91.1	162.4	177.2	233.8	221.5	219.0	762.9	910.5	1164.0	605.4
87.5°	0.0	0.0	0.0	0.0	2.5	14.8	27.1	135.3	204.3	283.0	147.7
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°	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8	3971.8
2.5°	4013.7	3957.1	3927.5	3875.9	3839.0	3802.0	3765.1	3730.7	3715.9	3693.8	3698.7
5°	4085.0	3996.5	3907.9	3807.0	3720.8	3649.5	3585.5	3528.9	3504.3	3482.1	3492.0
7.5°	4193.3	4060.4	3890.6	3706.1	3570.7	3472.3	3405.8	3366.5	3354.2	3336.9	3336.9
10°	4331.1	4131.8	3834.0	3570.7	3408.3	3329.6	3300.0	3297.6	3309.9	3312.3	3307.4
12.5°	4483.7	4200.7	3750.4	3410.8	3273.0	3248.3	3270.5	3312.3	3354.2	3376.3	3371.4
15°	4641.2	4245.0	3607.6	3258.2	3174.5	3206.5	3277.9	3361.5	3442.8	3484.6	3482.1
17.5°	4788.9	4254.8	3423.1	3110.5	3088.4	3169.6	3292.6	3423.1	3533.8	3592.9	3595.3
20°	4953.7	4237.6	3233.6	2977.7	3002.3	3135.1	3297.6	3455.1	3585.5	3644.5	3659.3
22.5°	5103.8	4178.6	3049.0	2852.1	2928.4	3093.3	3258.2	3405.8	3521.5	3578.1	3597.8
25°	5239.2	4065.4	2847.2	2746.3	2871.8	3034.3	3159.8	3263.1	3344.3	3378.8	3405.8
27.5°	5313.0	3895.6	2694.7	2662.7	2817.7	2950.6	3019.5	3051.5	3078.5	3068.7	3088.4
30°	5327.8	3683.9	2561.8	2596.2	2736.5	2834.9	2849.7	2817.7	2770.9	2694.7	2711.9
32.5°	5313.0	3440.3	2451.0	2524.9	2645.4	2704.5	2684.8	2601.1	2487.9	2369.8	2377.2
35°	5317.9	3194.2	2360.0	2446.1	2539.6	2571.6	2522.4	2406.7	2286.1	2177.9	2172.9
37.5°	5372.1	2987.5	2283.7	2369.8	2436.3	2441.2	2387.0	2266.5	2204.9	2123.7	2113.9
40°	5522.2	2834.9	2214.8	2293.5	2335.4	2332.9	2271.4	2185.3	2227.1	2200.0	2192.6
42.5°	5768.3	2741.4	2158.2	2212.3	2241.9	2246.8	2197.6	2143.4	2234.5	2200.0	2187.7
45°	6164.5	2736.5	2118.8	2131.1	2177.9	2212.3	2177.9	2116.3	2150.8	1983.5	1951.5
47.5°	6634.5	2820.2	2089.3	2059.7	2141.0	2202.5	2148.3	2049.9	1978.5	1826.0	1803.8
50°	7200.5	2990.0	2062.2	1983.5	2086.8	2165.6	2111.4	1976.1	1867.8	1786.6	1774.3
52.5°	7872.3	3213.9	2027.8	1897.3	2005.6	2145.9	2111.4	1968.7	1826.0	1752.1	1739.8
55°	8576.1	3472.3	1988.4	1794.0	1914.6	2150.8	2128.7	1917.0	1794.0	1754.6	1744.8
57.5°	9449.7	3782.4	1917.0	1673.4	1833.3	2106.5	2059.7	1887.5	1771.8	1739.8	1730.0
60°	10584.2	4242.5	1781.7	1550.3	1739.8	2027.8	1998.2	1838.3	1712.8	1685.7	1678.3
62.5°	12380.6	5022.6	1616.8	1432.2	1629.1	1862.9	1907.2	1744.8	1638.9	1636.5	1634.0
65°	15309.1	5960.2	1422.4	1326.4	1513.4	1727.5	1786.6	1648.8	1562.7	1589.7	1587.3
67.5°	17361.4	6041.4	1262.4	1215.7	1378.1	1579.9	1666.0	1550.3	1456.8	1508.5	1506.1
70°	15902.1	4712.6	1124.6	1100.0	1232.9	1419.9	1535.6	1427.3	1333.8	1383.0	1373.2
72.5°	13411.7	3612.6	994.2	979.4	1085.2	1252.6	1368.2	1304.3	1205.8	1205.8	1183.7
75°	10778.6	2980.1	856.4	849.0	920.4	1082.8	1213.2	1104.9	1013.9	1009.0	994.2
77.5°	6181.7	1953.9	718.6	713.7	735.8	905.6	942.5	920.4	851.5	819.5	809.6
80°	2463.3	1016.3	566.0	534.0	556.2	664.4	743.2	706.3	647.2	607.8	585.7
82.5°	954.8	509.4	398.7	349.4	381.4	479.9	538.9	526.6	487.3	398.7	374.1
85°	388.8	248.5	238.7	201.8	221.5	258.4	310.1	268.2	221.5	157.5	150.1
87.5°	103.4	91.1	88.6	54.1	41.8	12.3	2.5	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)