

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: P638780

Luminaire Tested: GWS-SA4F-740-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638780  
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-740-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

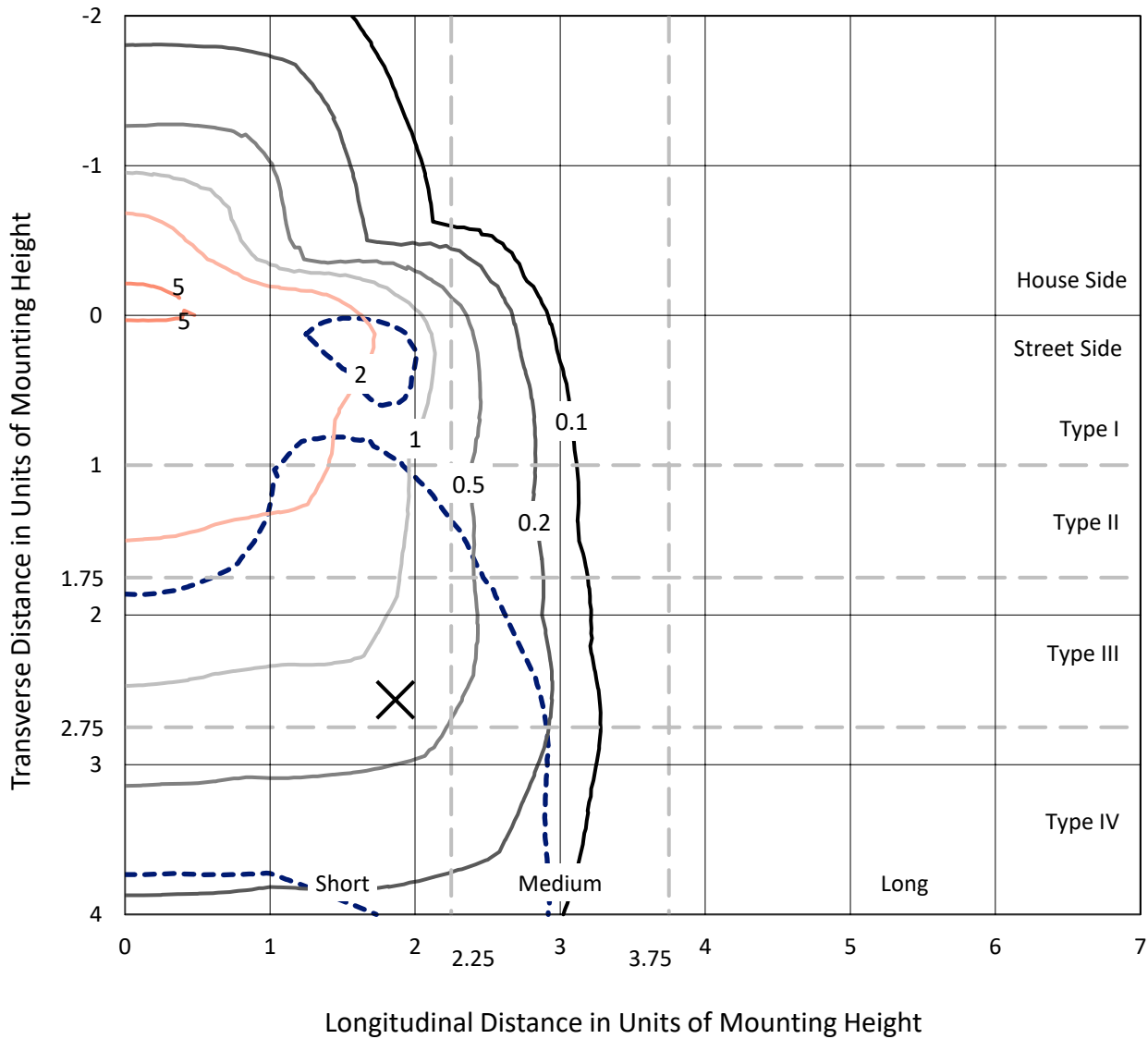
Lumens per Lamp: N/A  
Luminaire Lumens: 32864.8 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

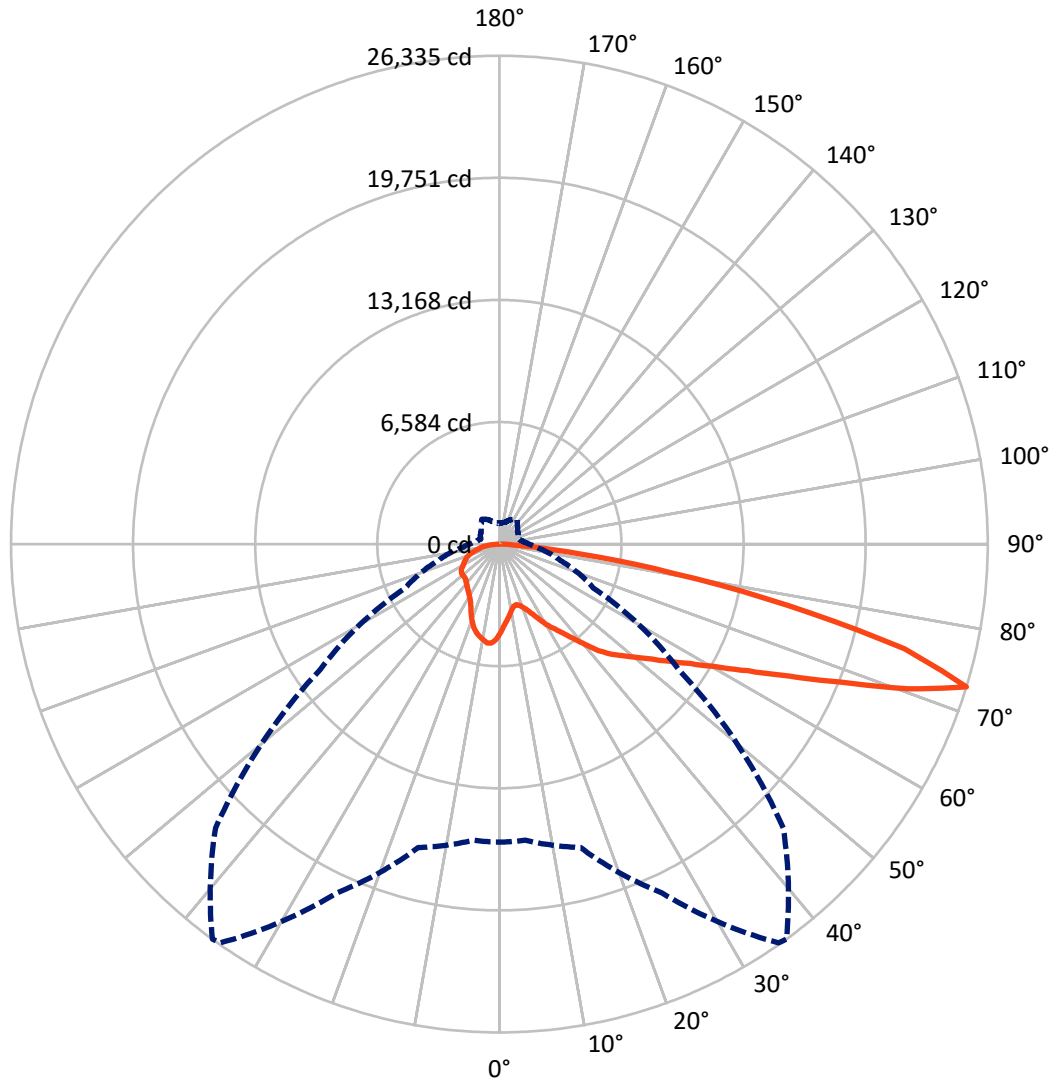
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	7576.8	0.0	7576.8
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	25288.0	0.0	25288.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	32864.8	0.0	32864.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.6	1.4
10°-20°	1268.5	3.9
20°-30°	2100.8	6.4
30°-40°	3146.1	9.6
40°-50°	4589.9	14.0
50°-60°	6532.8	19.9
60°-70°	8253.7	25.1
70°-80°	5881.5	17.9
80°-90°	642.0	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°	32864.8	100.0
0°-180°	32864.8	100.0

**Coefficient of Utilization**



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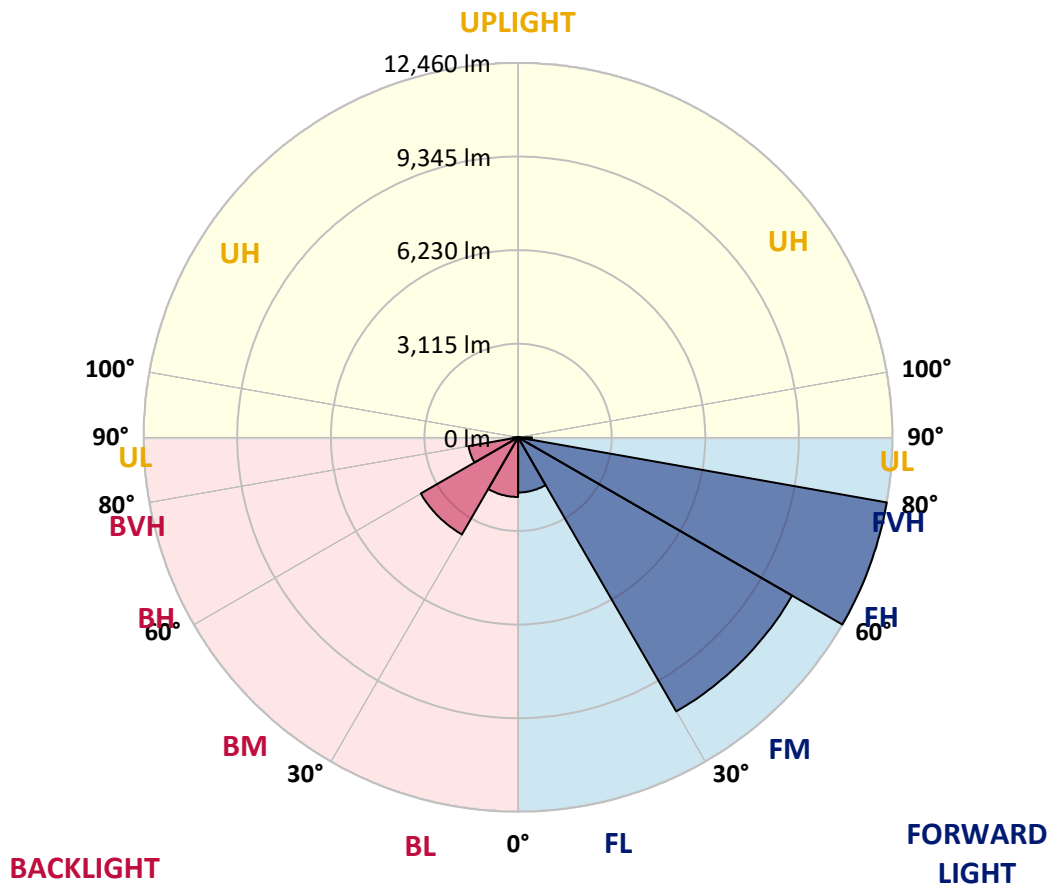
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1834.7	5.6			
FM (30°-60°)	10532.3	32.0			
FH (60°-80°)	12460.1	37.9			G5
FVH (80°-90°)	460.8	1.4			G3/500
BL (0°-30°)	1984.1	6.0	B3/2500		
BM (30°-60°)	3736.4	11.4	B3/5000		
BH (60°-80°)	1675.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	181.2	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9
2.5°	4387.9	4380.6	4366.0	4409.9	4453.8	4448.9	4509.9	4568.4	4631.9	4697.7	4785.5
5°	4036.7	4031.8	4019.6	4085.5	4151.4	4148.9	4248.9	4344.0	4473.3	4614.8	4790.4
7.5°	3685.5	3673.3	3690.4	3773.3	3866.0	3875.7	4012.3	4168.4	4356.2	4568.4	4817.2
10°	3375.7	3373.3	3380.6	3473.3	3612.3	3622.1	3797.7	4014.8	4263.6	4546.5	4878.2
12.5°	3295.2	3290.3	3270.8	3317.2	3422.1	3436.7	3629.4	3895.2	4200.1	4558.7	4961.1
15°	3426.9	3414.7	3346.4	3324.5	3375.7	3387.9	3551.3	3824.5	4163.5	4580.6	5066.0
17.5°	3653.8	3646.5	3517.2	3426.9	3461.1	3470.8	3592.8	3812.3	4153.8	4624.5	5195.3
20°	3985.5	3953.8	3751.3	3614.8	3614.8	3629.4	3702.6	3866.0	4166.0	4678.2	5341.6
22.5°	4424.5	4361.1	4075.7	3890.4	3841.6	3861.1	3892.8	4000.1	4217.2	4768.4	5524.6
25°	4917.2	4858.7	4519.7	4258.7	4190.4	4197.7	4170.9	4190.4	4329.4	4892.8	5751.4
27.5°	5441.6	5402.6	5041.6	4709.9	4602.6	4602.6	4507.5	4461.1	4485.5	5034.3	6005.1
30°	5909.9	5856.3	5551.4	5188.0	5046.5	5046.5	4866.0	4766.0	4707.5	5207.5	6344.1
32.5°	6156.3	6124.6	5922.1	5644.1	5470.9	5444.1	5288.0	5170.9	5034.3	5463.6	6802.7
35°	6478.3	6470.9	6349.0	6131.9	5912.4	5873.4	5766.0	5673.4	5436.8	5783.1	7412.4
37.5°	6883.1	6871.0	6851.4	6722.2	6458.7	6451.4	6356.3	6244.1	5936.8	6244.1	8151.5
40°	7336.8	7314.9	7290.5	7288.0	7129.5	7102.7	7095.3	6968.5	6539.2	6800.2	8922.2
42.5°	7961.2	7885.6	7656.3	7758.8	7875.9	7851.5	7944.2	7753.9	7290.5	7461.2	9651.5
45°	8729.5	8544.2	8090.5	8119.8	8414.9	8463.7	8785.6	8739.3	8117.3	8224.7	10419.8
47.5°	9190.5	9029.6	8607.6	8583.2	8951.5	9012.5	9712.5	9800.3	9007.6	9144.2	11368.7
50°	9568.6	9456.4	9110.0	9144.2	9534.5	9595.4	10632.0	10819.9	9846.7	10085.7	12471.1
52.5°	10024.7	9863.7	9595.4	9756.4	10234.5	10307.6	11654.0	11856.5	10602.8	11119.9	13612.6
55°	10280.8	10215.0	10219.8	10466.2	11066.2	11166.2	12724.8	12690.7	11295.5	12005.3	14471.2
57.5°	10871.1	10846.7	11071.1	11163.8	12037.0	12166.2	13795.6	13502.9	11924.8	12690.7	14883.4
60°	11912.6	11851.6	12046.7	12188.2	13237.0	13419.9	14990.7	14298.0	12351.6	13200.4	14744.4
62.5°	13376.0	13300.4	13307.7	13532.1	14844.4	15037.1	16320.0	14961.5	12483.3	13278.5	13863.9
65°	15195.6	15085.9	14961.5	15266.3	16978.6	17139.6	17766.4	15444.4	12168.7	12527.2	12024.8
67.5°	17115.2	17024.9	16878.6	17517.6	19742.1	19839.7	19388.4	15402.9	11171.1	10517.4	8434.4
70°	17227.4	17249.3	17942.0	20254.3	23349.5	23373.9	20922.6	14568.8	9046.6	6817.3	4202.6
72.5°	16071.2	16034.7	16937.1	20754.3	26252.1	26335.0	21647.0	11802.8	5590.4	3400.1	1970.8
75°	13054.1	13117.5	14066.3	18159.1	22500.7	22573.9	17646.9	6958.8	2656.2	1663.5	1261.0
77.5°	5619.7	5973.4	7844.2	12793.1	16115.2	15888.3	9095.4	2819.6	1417.1	1185.4	965.9
80°	1622.0	1761.0	2795.2	6083.1	9656.4	9485.7	3600.1	1056.1	987.8	890.3	692.7
82.5°	524.4	580.5	1024.4	2422.0	4327.0	4322.1	1365.9	624.4	646.4	604.9	446.4
85°	146.3	168.3	314.6	734.2	1339.1	1312.2	395.1	295.1	343.9	348.8	222.0
87.5°	0.0	0.0	2.4	4.9	4.9	4.9	9.8	43.9	100.0	126.8	90.2
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°	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9	4809.9
2.5°	4839.2	4831.9	4931.9	5009.9	5083.1	5131.9	5146.5	5156.3	5175.8	5185.5	5175.8
5°	4873.3	4909.9	5075.8	5197.7	5295.3	5353.8	5356.3	5351.4	5366.0	5353.8	5346.5
7.5°	4946.5	5017.2	5227.0	5356.3	5419.7	5422.1	5363.6	5295.3	5261.1	5231.9	5222.1
10°	5044.1	5148.9	5378.2	5463.6	5444.1	5353.8	5224.6	5117.2	5056.3	5012.4	5002.6
12.5°	5178.2	5295.3	5512.4	5509.9	5388.0	5227.0	5075.8	4946.5	4858.7	4807.5	4790.4
15°	5305.0	5453.8	5609.9	5495.3	5302.6	5107.5	4912.4	4739.2	4622.1	4541.6	4527.0
17.5°	5461.2	5619.7	5680.7	5449.0	5195.3	4944.1	4683.1	4456.2	4297.7	4202.6	4195.3
20°	5641.6	5783.1	5714.8	5368.5	5056.3	4727.0	4373.3	4119.6	3948.9	3856.2	3863.5
22.5°	5851.4	5953.8	5724.6	5258.7	4863.6	4419.7	4024.5	3780.6	3666.0	3617.2	3619.6
25°	6075.8	6141.7	5707.5	5109.9	4568.4	4044.0	3666.0	3553.8	3544.0	3531.8	3536.7
27.5°	6341.7	6327.0	5656.3	4900.2	4170.9	3607.4	3414.7	3444.0	3483.0	3478.2	3483.0
30°	6697.8	6558.7	5590.4	4609.9	3697.7	3241.6	3266.0	3348.9	3400.1	3405.0	3419.6
32.5°	7105.1	6814.9	5485.5	4214.8	3246.4	3036.7	3126.9	3226.9	3287.9	3300.1	3319.6
35°	7590.5	7107.5	5300.2	3722.1	2922.0	2914.7	2997.7	3066.0	3131.8	3136.7	3136.7
37.5°	8149.0	7400.2	5005.0	3178.2	2722.0	2809.8	2887.9	2902.5	2919.6	2905.0	2912.3
40°	8661.3	7683.2	4585.5	2683.0	2558.6	2717.2	2783.0	2734.2	2680.6	2644.0	2651.3
42.5°	9090.5	7875.9	4029.4	2336.7	2392.8	2634.2	2685.5	2585.4	2480.6	2412.3	2422.0
45°	9573.5	8053.9	3375.7	2102.5	2251.3	2575.7	2609.8	2480.6	2346.4	2244.0	2229.3
47.5°	10239.4	8417.3	2795.2	1939.1	2151.3	2544.0	2600.1	2424.5	2248.9	2095.2	2078.1
50°	11061.3	8932.0	2309.8	1831.8	2104.9	2526.9	2597.6	2363.5	2153.7	1973.2	1961.0
52.5°	11958.9	9434.4	1951.3	1748.8	2058.6	2475.7	2585.4	2295.2	2053.7	1858.6	1844.0
55°	12556.5	9632.0	1709.8	1670.8	1983.0	2395.2	2536.7	2229.3	1902.5	1724.4	1702.5
57.5°	12732.1	9378.4	1541.5	1600.1	1885.4	2283.0	2444.0	2090.3	1809.8	1668.3	1651.3
60°	12429.7	8739.3	1436.6	1541.5	1778.1	2139.1	2283.0	2009.8	1736.6	1609.8	1597.6
62.5°	11576.0	7753.9	1356.1	1480.5	1668.3	1987.9	2180.6	1912.3	1656.2	1556.1	1539.1
65°	9858.9	6358.7	1290.3	1417.1	1563.5	1844.0	2068.4	1814.7	1568.3	1492.7	1473.2
67.5°	6895.3	4466.0	1219.6	1341.5	1458.6	1704.9	1951.3	1724.4	1478.1	1422.0	1402.5
70°	3370.8	2368.4	1134.2	1253.7	1346.4	1563.5	1834.2	1614.7	1358.6	1326.9	1300.0
72.5°	1604.9	1324.4	1034.2	1134.2	1192.7	1375.7	1639.1	1456.1	1217.1	1148.8	1102.5
75°	1075.6	941.5	902.5	992.7	1007.3	1153.7	1404.9	1256.1	1073.2	995.2	956.1
77.5°	814.7	719.5	758.6	839.1	809.8	948.8	1156.1	1119.5	968.3	897.6	878.1
80°	573.2	524.4	602.5	651.2	629.3	807.3	1041.5	958.6	797.6	719.5	704.9
82.5°	361.0	351.2	443.9	451.2	458.6	639.0	856.1	753.7	619.5	509.8	473.2
85°	180.5	200.0	265.9	265.9	263.4	329.3	487.8	424.4	334.2	265.9	258.5
87.5°	61.0	85.4	114.6	92.7	70.7	56.1	63.4	78.1	82.9	80.5	80.5
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)