

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: P638782

Luminaire Tested: GWS-SA4F-740-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

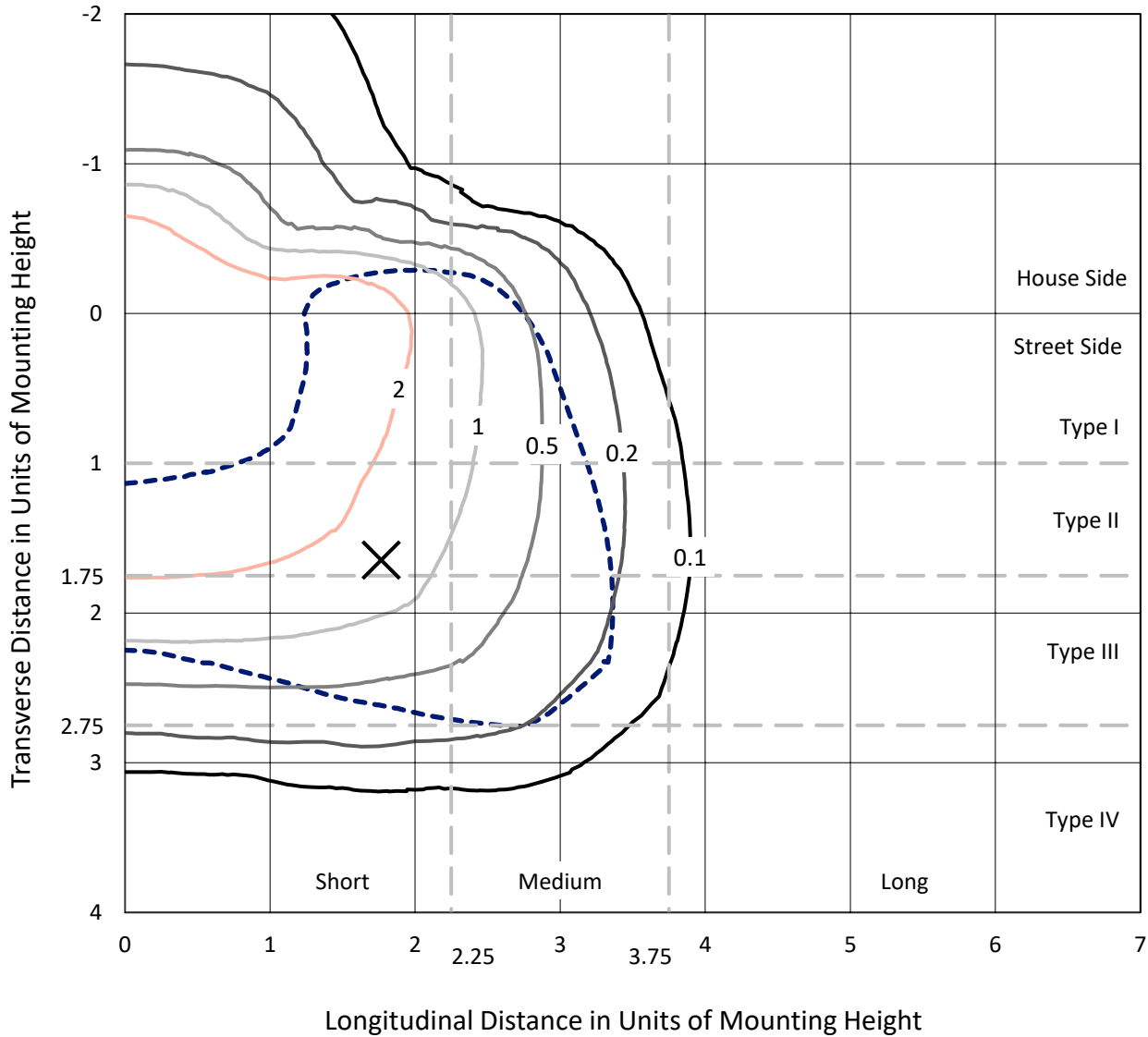
Lumens per Lamp: N/A  
Luminaire Lumens: 33733.1 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

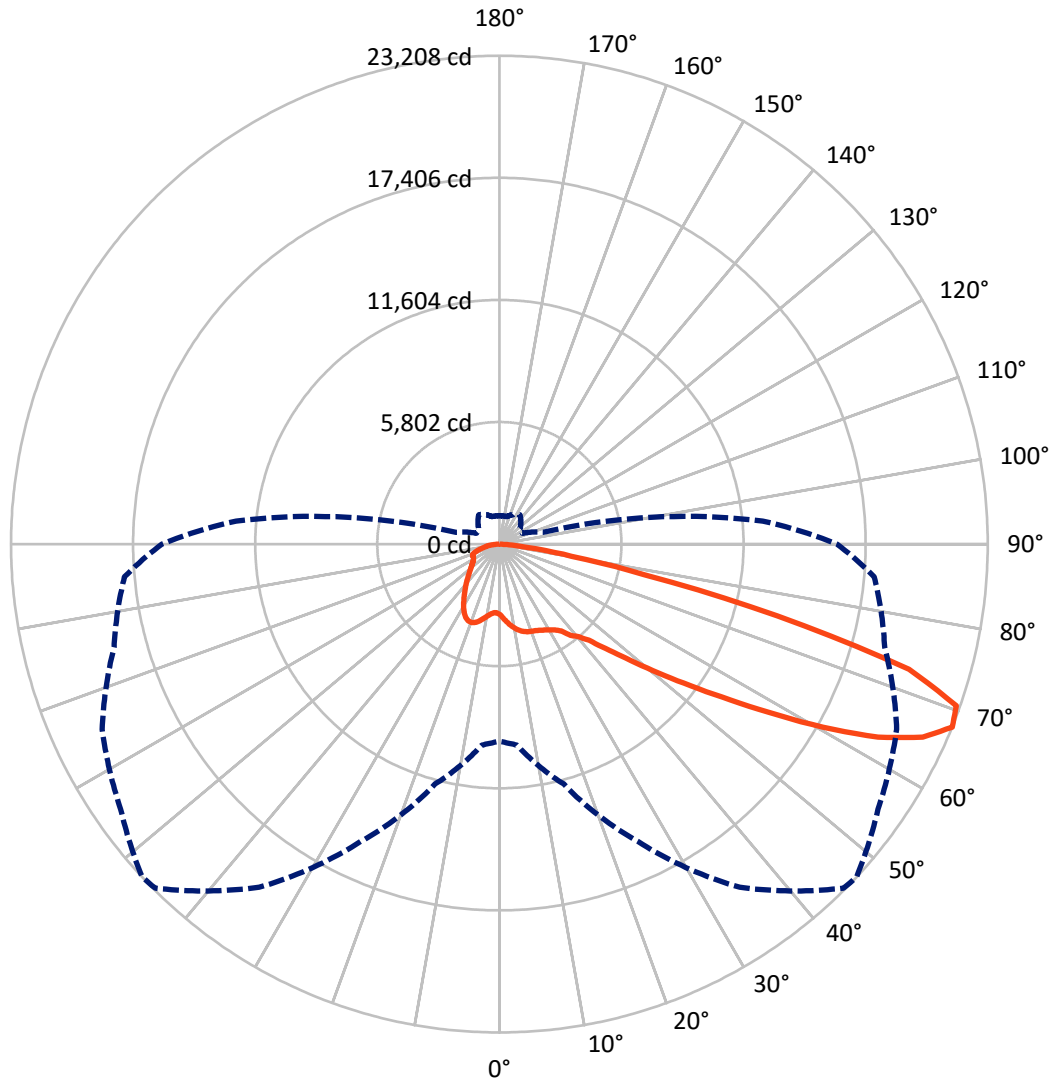
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7688.0	0.0	7688.0
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	26045.1	0.0	26045.1
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	33733.1	0.0	33733.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.8	1.0
10°-20°	1138.6	3.4
20°-30°	1935.4	5.7
30°-40°	2835.1	8.4
40°-50°	4319.6	12.8
50°-60°	7728.7	22.9
60°-70°	10313.1	30.6
70°-80°	4663.8	13.8
80°-90°	456.9	1.4
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°	33733.1	100.0
0°-180°	33733.1	100.0

**Coefficient of Utilization**



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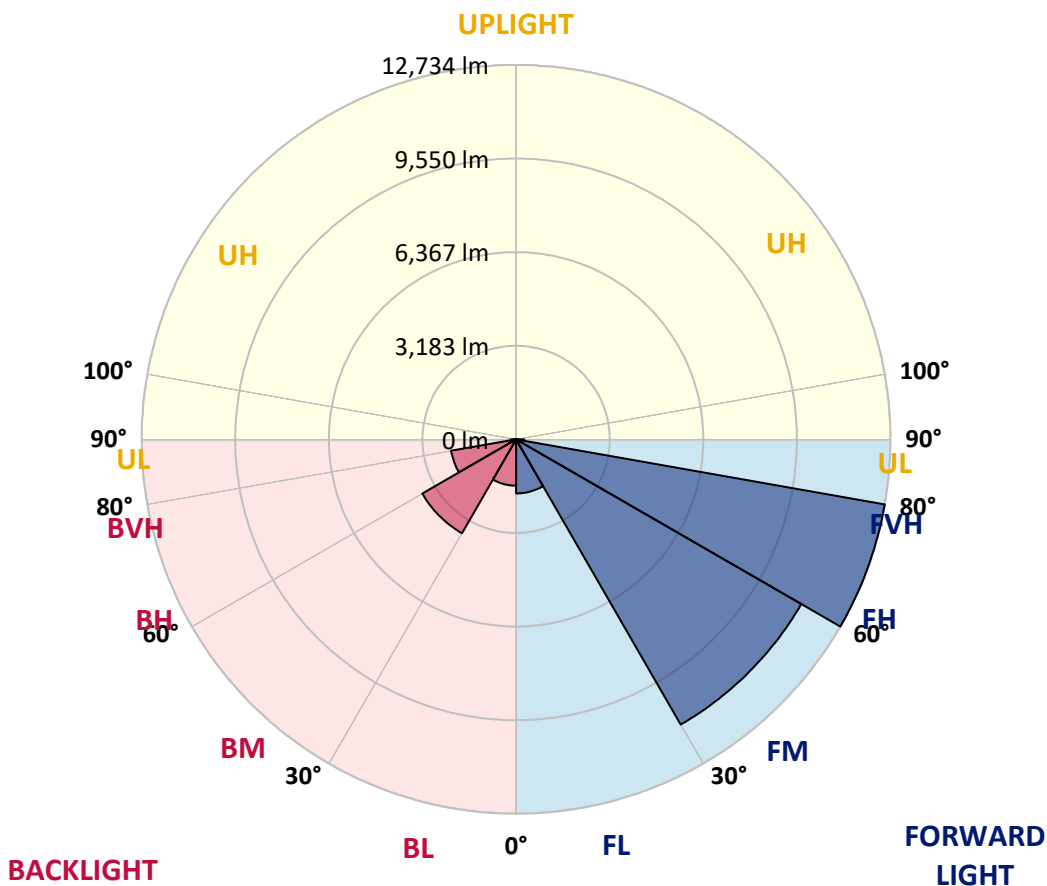
CATALOG NUMBER: GWS-SA4F-740-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1839.7	5.5			
FM (30°-60°)	11199.7	33.2			
FH (60°-80°)	12733.9	37.7			G5
FVH (80°-90°)	271.8	0.8			G3/500
BL (0°-30°)	1576.1	4.7	B3/2500		
BM (30°-60°)	3683.7	10.9	B3/5000		
BH (60°-80°)	2243.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	185.1	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0
2.5°	3566.0	3578.2	3575.7	3556.2	3544.0	3522.1	3524.5	3490.4	3439.1	3405.0	3366.0
5°	3880.6	3900.1	3875.7	3844.0	3795.3	3724.5	3717.2	3639.1	3541.6	3473.3	3402.6
7.5°	4153.8	4166.0	4136.7	4083.1	4012.3	3917.2	3900.1	3807.4	3685.5	3578.2	3475.7
10°	4366.0	4380.6	4341.6	4270.9	4178.2	4083.1	4070.9	3975.7	3846.5	3719.6	3590.4
12.5°	4546.5	4551.4	4509.9	4414.8	4314.8	4217.2	4205.0	4117.2	3997.7	3868.4	3727.0
15°	4651.4	4653.8	4602.6	4497.7	4402.6	4317.2	4309.9	4234.3	4124.5	4002.6	3851.4
17.5°	4644.1	4648.9	4612.4	4519.7	4436.7	4385.5	4378.2	4329.4	4244.0	4134.3	3983.1
20°	4553.8	4558.7	4534.3	4473.3	4429.4	4414.8	4417.2	4402.6	4351.4	4261.1	4107.5
22.5°	4483.1	4490.4	4468.4	4424.5	4419.7	4453.8	4461.1	4468.4	4444.1	4363.6	4214.8
25°	4517.2	4529.4	4495.3	4434.3	4444.1	4519.7	4534.3	4558.7	4539.2	4470.9	4341.6
27.5°	4753.8	4761.1	4673.3	4548.9	4519.7	4600.2	4622.1	4661.1	4646.5	4583.1	4483.1
30°	5302.6	5297.7	5109.9	4805.0	4683.1	4714.8	4731.9	4788.0	4792.8	4751.4	4656.3
32.5°	6075.8	6051.4	5761.2	5275.8	4922.1	4844.1	4863.6	4939.2	4995.3	4951.4	4822.1
35°	6892.9	6871.0	6551.4	5983.1	5363.6	5092.9	5070.9	5129.4	5214.8	5092.9	4907.5
37.5°	7671.0	7636.8	7310.0	6607.5	5907.5	5529.5	5497.8	5439.2	5388.0	5153.8	5012.4
40°	8534.4	8495.4	8210.0	7414.9	6507.5	5863.6	5783.1	5551.4	5505.1	5356.3	5285.5
42.5°	9456.4	9456.4	9219.8	8436.9	7232.0	6341.7	6236.8	5888.0	5936.8	5839.2	5756.3
45°	10378.4	10405.2	10217.4	9466.2	8200.3	7244.2	7075.9	6580.7	6697.8	6653.9	6612.4
47.5°	11163.8	11215.0	11178.4	10517.4	9385.7	8341.8	8085.6	7571.0	7822.2	7927.1	8044.2
50°	12010.2	12066.3	12029.7	11768.7	10773.5	9671.1	9441.8	8910.1	9341.8	9656.4	10039.4
52.5°	13266.3	13346.8	13041.9	12941.9	12459.0	11180.9	10976.0	10371.1	11154.0	11676.0	12529.7
55°	14327.3	14324.9	14217.6	14446.8	14268.8	13027.3	12800.4	12251.6	13251.7	13805.4	15054.2
57.5°	14820.0	14878.6	15246.9	15895.7	16251.8	15283.5	15066.4	14505.4	15503.0	15790.8	17139.6
60°	15073.7	15146.9	15859.1	17142.1	18100.6	17747.0	17661.6	16946.9	17507.9	17473.8	18898.2
62.5°	14717.6	14863.9	16007.9	17712.8	19420.2	20222.6	20195.8	19115.3	19212.9	18878.7	19988.5
65°	13083.4	13241.9	15037.1	17427.4	20173.9	22105.6	22113.0	21078.8	20522.7	19561.7	19805.6
67.5°	9356.4	9583.3	11802.8	15593.2	19908.0	23122.7	23208.1	21969.1	20830.0	18956.8	17883.5
70°	5100.2	5266.0	7005.1	11334.5	17512.8	22878.8	23037.4	21539.8	19473.8	16398.1	13766.3
72.5°	2317.2	2370.8	3258.6	6219.7	11963.8	19693.4	20356.8	19222.6	15993.2	12112.6	8754.0
75°	1061.0	1085.4	1419.6	2975.7	6251.4	13178.5	13644.4	14317.6	11129.7	7649.0	4563.6
77.5°	665.9	673.2	807.3	1361.0	3117.2	6578.3	7068.5	8524.7	6517.3	3785.5	1907.4
80°	392.7	400.0	502.5	736.6	1463.5	3009.9	3475.7	3370.8	3063.5	1634.2	868.3
82.5°	197.6	204.9	290.3	419.5	797.6	1197.6	1409.8	1417.1	1141.5	885.4	490.3
85°	70.7	73.2	95.1	165.9	339.0	395.1	441.5	539.0	558.6	514.7	236.6
87.5°	0.0	0.0	2.4	4.9	9.8	39.0	41.5	78.1	163.4	182.9	95.1
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°	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0	3344.0
2.5°	3353.8	3317.2	3305.0	3292.8	3273.3	3266.0	3251.3	3236.7	3236.7	3222.1	3214.7
5°	3370.8	3322.1	3290.4	3275.7	3263.5	3270.8	3270.8	3275.7	3292.8	3283.0	3287.9
7.5°	3431.8	3375.7	3331.8	3319.6	3319.6	3348.9	3368.4	3392.8	3424.5	3429.4	3429.4
10°	3539.1	3473.3	3426.9	3419.6	3431.8	3473.3	3502.6	3531.8	3570.9	3573.3	3578.2
12.5°	3656.2	3590.4	3544.0	3553.8	3566.0	3619.6	3651.3	3675.7	3714.8	3714.8	3712.3
15°	3778.2	3705.0	3666.0	3685.5	3722.1	3783.1	3787.9	3790.4	3809.9	3805.0	3802.6
17.5°	3905.0	3827.0	3797.7	3827.0	3866.0	3895.3	3870.9	3836.7	3829.4	3819.6	3814.8
20°	4029.4	3948.9	3936.7	3958.7	3970.9	3946.5	3870.9	3807.4	3778.2	3763.5	3758.7
22.5°	4136.7	4068.4	4061.1	4061.1	4000.1	3914.8	3802.6	3717.2	3678.2	3658.7	3653.8
25°	4263.6	4200.1	4187.9	4122.1	3966.0	3809.9	3658.7	3580.6	3548.9	3539.1	3541.6
27.5°	4412.3	4368.4	4329.4	4141.6	3868.4	3624.5	3453.8	3419.6	3407.4	3419.6	3426.9
30°	4595.3	4551.4	4463.6	4117.2	3712.3	3383.0	3219.6	3217.2	3253.8	3285.5	3290.4
32.5°	4744.1	4724.6	4580.6	4039.2	3492.8	3117.2	2978.2	2987.9	3053.8	3097.7	3105.0
35°	4861.1	4892.9	4678.2	3909.9	3231.8	2866.0	2756.2	2761.1	2797.7	2858.6	2861.1
37.5°	5027.0	5134.3	4766.0	3712.3	2931.8	2648.9	2548.9	2512.3	2507.4	2524.5	2529.4
40°	5361.2	5522.1	4829.4	3424.5	2641.6	2453.7	2341.5	2270.8	2209.8	2163.5	2148.9
42.5°	5866.1	6051.4	4866.0	3075.7	2383.0	2261.1	2134.2	2044.0	1936.7	1839.1	1804.9
45°	6792.9	6853.9	4866.0	2705.0	2153.7	2080.6	1953.7	1846.4	1709.8	1595.2	1570.8
47.5°	8275.9	8080.8	4870.9	2346.4	1951.3	1922.0	1812.3	1690.3	1539.1	1444.0	1429.3
50°	10510.1	9824.7	4970.9	2048.9	1783.0	1787.9	1707.4	1573.2	1436.6	1365.9	1353.7
52.5°	13041.9	11973.6	5239.2	1829.3	1641.5	1678.1	1634.2	1504.9	1383.0	1322.0	1309.8
55°	15422.5	13949.3	5468.5	1673.2	1522.0	1585.4	1583.0	1463.5	1353.7	1292.7	1285.4
57.5°	17446.9	15303.0	5434.3	1546.4	1419.6	1500.1	1536.6	1436.6	1334.2	1283.0	1275.7
60°	18705.5	16020.1	4949.0	1429.3	1341.5	1439.1	1509.8	1429.3	1343.9	1331.8	1334.2
62.5°	19251.9	15888.4	4017.2	1341.5	1290.3	1409.8	1539.1	1480.5	1434.2	1463.5	1480.5
65°	18403.1	14756.6	2956.2	1275.7	1241.5	1417.1	1607.4	1561.0	1434.2	1453.7	1461.0
67.5°	16046.9	12561.4	2136.7	1209.8	1180.5	1439.1	1704.9	1548.8	1351.3	1351.3	1336.6
70°	11563.8	9034.5	1551.3	1143.9	1119.6	1407.4	1709.8	1465.9	1256.1	1248.8	1212.2
72.5°	6958.8	5329.5	1209.8	1070.8	1026.9	1248.8	1602.5	1368.3	1163.5	1102.5	1058.6
75°	3614.8	2670.8	1014.7	990.3	880.5	1058.6	1465.9	1217.1	995.2	941.5	917.1
77.5°	1548.8	1248.8	870.8	883.0	731.7	890.3	1183.0	1053.7	883.0	814.7	792.7
80°	763.4	709.8	687.8	707.3	585.4	687.8	1019.5	922.0	748.8	670.8	639.0
82.5°	436.6	414.6	495.1	502.5	417.1	575.6	861.0	780.5	619.5	534.2	482.9
85°	202.4	217.1	300.0	302.4	258.5	395.1	563.4	439.0	329.3	273.2	261.0
87.5°	80.5	95.1	131.7	129.3	75.6	73.2	48.8	26.8	22.0	19.5	17.1
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)