

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: P638776

Luminaire Tested: GWS-SA4F-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29830.5 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

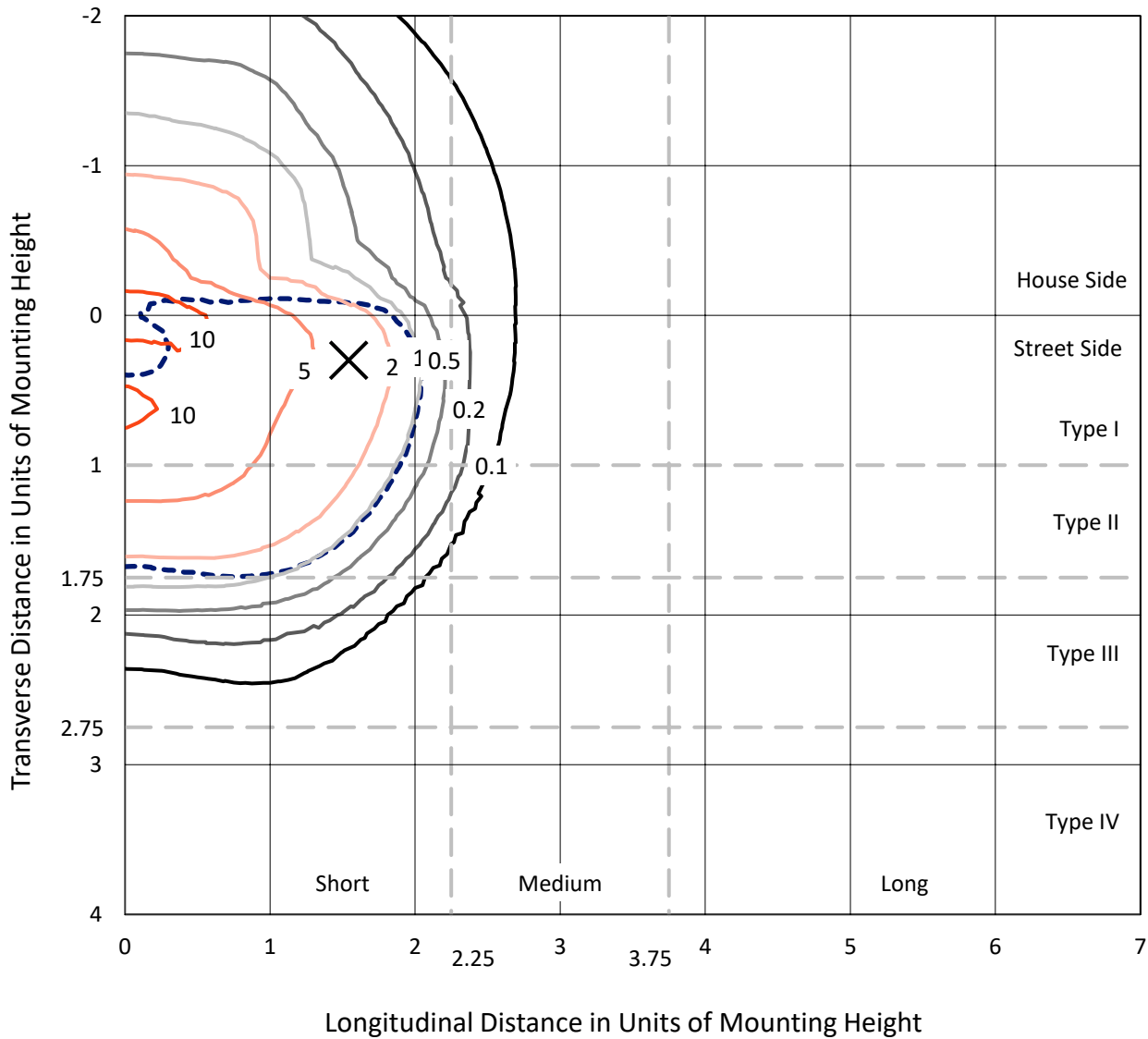
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

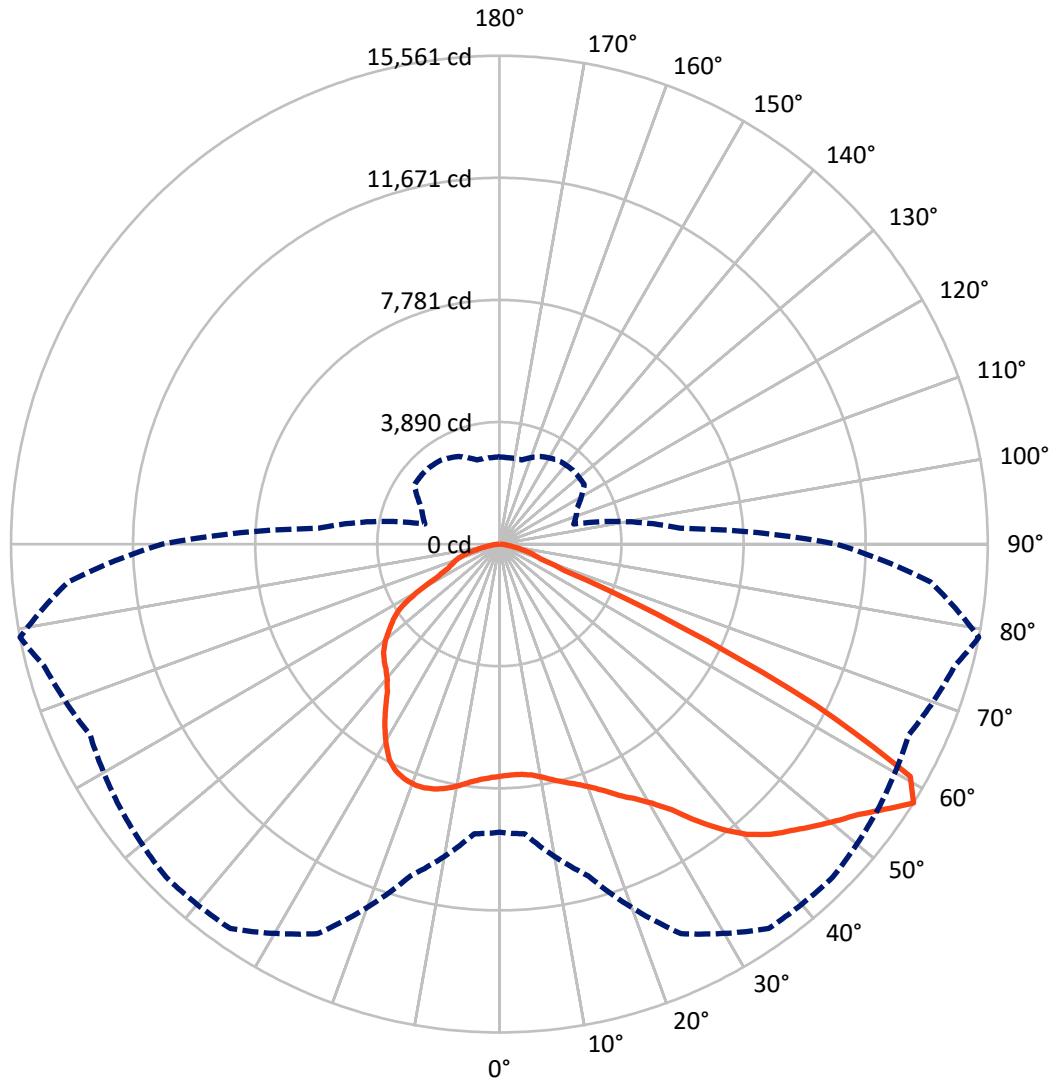
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8867.2	0.0	8867.2
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	20963.3	0.0	20963.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	29830.5	0.0	29830.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.6	2.3
10°-20°	1902.6	6.4
20°-30°	3225.0	10.8
30°-40°	4936.2	16.5
40°-50°	6582.0	22.1
50°-60°	7601.7	25.5
60°-70°	3950.1	13.2
70°-80°	839.7	2.8
80°-90°	108.8	0.4
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°	29830.5	100.0
0°-180°	29830.5	100.0

Coefficient of Utilization



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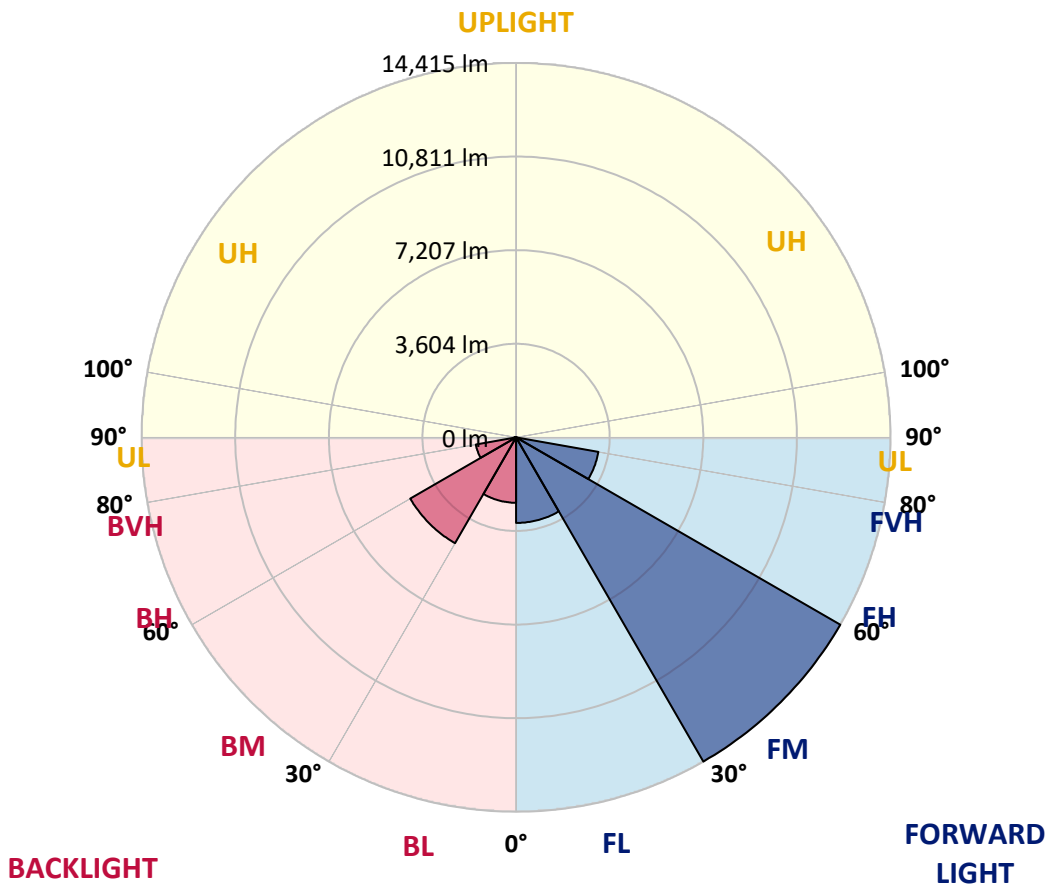
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3294.0	11.0			
FM (30°-60°)	14414.9	48.3			
FH (60°-80°)	3216.5	10.8			G2/5000
FVH (80°-90°)	37.9	0.1			G1/100
BL (0°-30°)	2518.2	8.4	B4/5000		
BM (30°-60°)	4704.9	15.8	B3/5000		
BH (60°-80°)	1573.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	70.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7
2.5°	7056.1	7041.5	7046.3	7065.9	7139.0	7192.7	7248.8	7300.0	7348.8	7363.4	7375.6
5°	6804.9	6778.1	6785.4	6817.1	6902.4	6992.7	7092.7	7214.6	7331.7	7370.7	7422.0
7.5°	6626.8	6622.0	6634.2	6682.9	6773.2	6858.5	6987.8	7161.0	7363.4	7429.3	7519.5
10°	6390.2	6380.5	6429.3	6529.3	6678.1	6814.6	6968.3	7173.2	7456.1	7553.7	7692.7
12.5°	6202.4	6197.6	6248.8	6387.8	6578.1	6795.1	7007.3	7236.6	7580.5	7714.6	7885.4
15°	6312.2	6290.2	6292.7	6390.2	6561.0	6817.1	7104.9	7351.2	7704.9	7875.6	8095.1
17.5°	6631.7	6592.7	6563.4	6580.5	6678.1	6943.9	7253.7	7504.9	7848.8	8048.8	8317.1
20°	7073.2	7051.2	6970.7	6917.1	6939.0	7173.2	7487.8	7722.0	8036.6	8261.0	8548.8
22.5°	7665.9	7612.2	7502.4	7417.1	7351.2	7534.2	7824.4	8026.8	8297.6	8531.7	8831.7
25°	8400.0	8322.0	8148.8	8014.6	7873.2	8061.0	8319.5	8473.2	8656.1	8873.2	9158.5
27.5°	9148.8	9082.9	8890.2	8709.8	8534.2	8651.2	8958.5	9046.3	9026.8	9185.4	9429.3
30°	9946.3	9863.4	9680.5	9485.4	9258.5	9334.2	9609.8	9653.7	9446.3	9578.1	9743.9
32.5°	10787.8	10707.3	10548.8	10322.0	10065.9	10095.1	10170.7	10212.2	10014.6	10090.3	10217.1
35°	11643.9	11568.3	11407.3	11182.9	10995.1	10817.1	10626.8	10792.7	10678.1	10824.4	10814.6
37.5°	12426.8	12351.2	12251.2	12078.1	11756.1	11404.9	10965.9	11170.7	11348.8	11534.2	11502.4
40°	12956.1	12904.9	12929.3	12902.4	12487.8	11792.7	11131.7	11356.1	11841.5	12158.5	12141.5
42.5°	13412.2	13361.0	13502.4	13604.9	13117.1	12151.2	11212.2	11426.8	12156.1	12651.2	12626.8
45°	13614.6	13600.0	13834.2	14158.5	13692.7	12531.7	11419.5	11573.2	12395.1	13029.3	12936.6
47.5°	13373.2	13424.4	13885.4	14434.2	14170.7	12982.9	11843.9	11882.9	12707.3	13439.0	13178.1
50°	12892.7	13004.9	13626.8	14441.5	14519.5	13492.7	12431.7	12334.2	13126.8	13875.6	13304.9
52.5°	12192.7	12309.8	13324.4	14385.4	14719.5	14082.9	13214.6	13075.6	13656.1	14312.2	13326.8
55°	10585.4	10743.9	12631.7	14258.5	14914.6	14619.5	14097.6	13814.6	14339.0	14912.2	13543.9
57.5°	9182.9	9265.9	10943.9	13695.1	14953.7	15014.6	14726.8	14390.3	15017.1	15561.0	13787.8
60°	6739.0	6758.5	8268.3	11331.7	13756.1	14785.4	14675.6	14175.6	14695.1	15041.5	12670.7
62.5°	3807.3	3809.8	5014.6	7563.4	10275.6	12051.2	12119.5	11678.1	11241.5	11343.9	8819.5
65°	1429.3	1563.4	2290.2	3717.1	5924.4	7114.6	7397.6	7500.0	6773.2	6322.0	4729.3
67.5°	956.1	987.8	1336.6	1912.2	2636.6	3043.9	3404.9	3414.6	2497.6	2226.8	1863.4
70°	729.3	761.0	1051.2	1368.3	1336.6	1234.1	1334.1	1297.6	1341.5	1378.0	1417.1
72.5°	543.9	575.6	814.6	965.9	802.4	790.2	895.1	995.1	1087.8	1126.8	1187.8
75°	361.0	385.4	548.8	517.1	443.9	524.4	653.7	753.7	807.3	853.7	900.0
77.5°	229.3	246.3	292.7	236.6	246.3	307.3	380.5	470.7	522.0	568.3	592.7
80°	104.9	102.4	100.0	112.2	139.0	180.5	229.3	282.9	322.0	341.5	356.1
82.5°	41.5	46.3	51.2	61.0	75.6	97.6	129.3	165.9	197.6	202.4	214.6
85°	17.1	19.5	22.0	26.8	34.1	43.9	53.7	75.6	95.1	102.4	109.8
87.5°	0.0	0.0	0.0	0.0	2.4	4.9	7.3	12.2	22.0	24.4	26.8
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°	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7	7392.7
2.5°	7441.5	7409.8	7463.4	7500.0	7534.2	7497.6	7485.4	7453.7	7448.8	7448.8	7465.9
5°	7509.8	7487.8	7543.9	7565.9	7563.4	7482.9	7434.2	7370.7	7339.0	7339.0	7343.9
7.5°	7631.7	7619.5	7651.2	7617.1	7539.0	7375.6	7214.6	7080.5	6990.2	6943.9	6958.5
10°	7834.2	7819.5	7792.7	7665.9	7441.5	7102.4	6773.2	6529.3	6382.9	6300.0	6304.9
12.5°	8031.7	8007.3	7912.2	7631.7	7170.7	6631.7	6200.0	5926.8	5765.9	5668.3	5646.3
15°	8248.8	8185.4	7980.5	7456.1	6729.3	6056.1	5604.9	5309.8	5136.6	5078.1	5075.6
17.5°	8456.1	8343.9	7973.2	7143.9	6200.0	5453.7	5000.0	4817.1	4787.8	4814.6	4822.0
20°	8665.9	8485.4	7892.7	6712.2	5570.7	4853.7	4619.5	4695.1	4804.9	4878.1	4895.1
22.5°	8882.9	8602.4	7709.8	6156.1	4907.3	4448.8	4546.3	4712.2	4848.8	4946.3	4956.1
25°	9126.8	8712.2	7436.6	5475.6	4375.6	4336.6	4529.3	4704.9	4851.2	4963.4	4982.9
27.5°	9265.9	8714.6	7053.7	4775.6	4131.7	4292.7	4487.8	4653.7	4800.0	4922.0	4943.9
30°	9402.4	8648.8	6446.3	4207.3	4061.0	4241.5	4417.1	4570.7	4709.8	4829.3	4856.1
32.5°	9595.1	8587.8	5746.3	3880.5	4019.5	4192.7	4336.6	4473.2	4580.5	4634.1	4648.8
35°	9834.2	8509.8	5002.4	3739.0	3992.7	4153.7	4280.5	4353.7	4214.6	4185.4	4217.1
37.5°	10168.3	8436.6	4261.0	3678.1	3975.6	4139.0	4251.2	4063.4	3892.7	3824.4	3848.8
40°	10529.3	8395.1	3758.5	3629.3	3982.9	4153.7	4129.3	3851.2	3604.9	3461.0	3456.1
42.5°	10836.6	8331.7	3436.6	3597.6	4002.4	4209.8	3963.4	3663.4	3297.6	3212.2	3214.6
45°	11043.9	8170.7	3265.9	3563.4	4019.5	4222.0	3885.4	3404.9	3143.9	3090.2	3087.8
47.5°	11129.3	7878.1	3156.1	3509.8	4017.1	4122.0	3726.8	3297.6	3036.6	3022.0	3031.7
50°	11073.2	7397.6	3043.9	3404.9	3958.5	4017.1	3543.9	3202.4	2963.4	3043.9	3102.4
52.5°	10865.9	6775.6	2909.8	3261.0	3853.7	3897.6	3451.2	3143.9	2909.8	3017.1	3063.4
55°	10812.2	6270.7	2739.0	3073.2	3697.6	3685.4	3353.7	3114.6	2873.2	2831.7	2839.0
57.5°	10741.5	5778.1	2456.1	2736.6	3302.4	3322.0	3261.0	3080.5	2778.1	2765.9	2778.1
60°	9331.7	4429.3	2190.2	2361.0	2712.2	2817.1	3156.1	3017.1	2624.4	2573.2	2570.7
62.5°	6095.1	2682.9	1948.8	2058.5	2209.8	2331.7	2878.1	2834.1	2456.1	2424.4	2446.3
65°	3278.1	1912.2	1773.2	1839.0	1922.0	2014.6	2385.4	2524.4	2219.5	2107.3	2109.8
67.5°	1675.6	1626.8	1641.5	1687.8	1751.2	1797.6	1924.4	2046.3	1892.7	1797.6	1795.1
70°	1434.1	1473.2	1495.1	1522.0	1563.4	1556.1	1568.3	1590.2	1578.0	1531.7	1529.3
72.5°	1222.0	1282.9	1287.8	1292.7	1307.3	1273.2	1251.2	1214.6	1217.1	1224.4	1226.8
75°	929.3	987.8	1002.4	995.1	1009.8	965.9	936.6	900.0	856.1	848.8	853.7
77.5°	604.9	651.2	673.2	668.3	675.6	641.5	626.8	587.8	536.6	517.1	517.1
80°	365.9	392.7	409.8	414.6	422.0	397.6	373.2	339.0	317.1	295.1	295.1
82.5°	222.0	239.0	251.2	251.2	258.5	231.7	212.2	187.8	178.0	158.5	158.5
85°	112.2	124.4	129.3	126.8	122.0	100.0	92.7	80.5	75.6	65.9	65.9
87.5°	26.8	34.1	34.1	24.4	24.4	12.2	7.3	2.4	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)