

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: P638768

Luminaire Tested: GWS-SA4F-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 29945.1 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

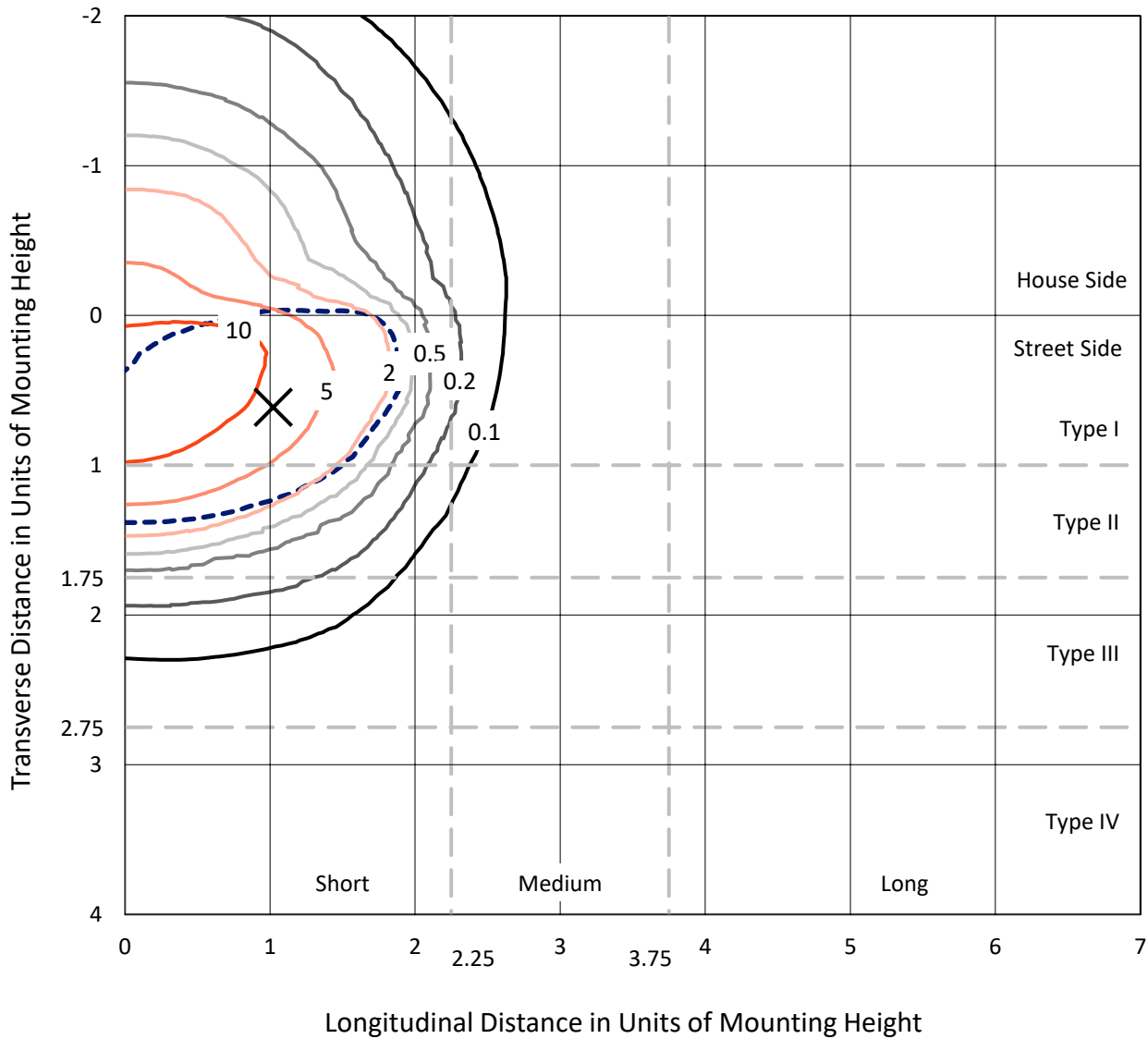


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Iso-Footcandle Lines of Horizontal Illumination

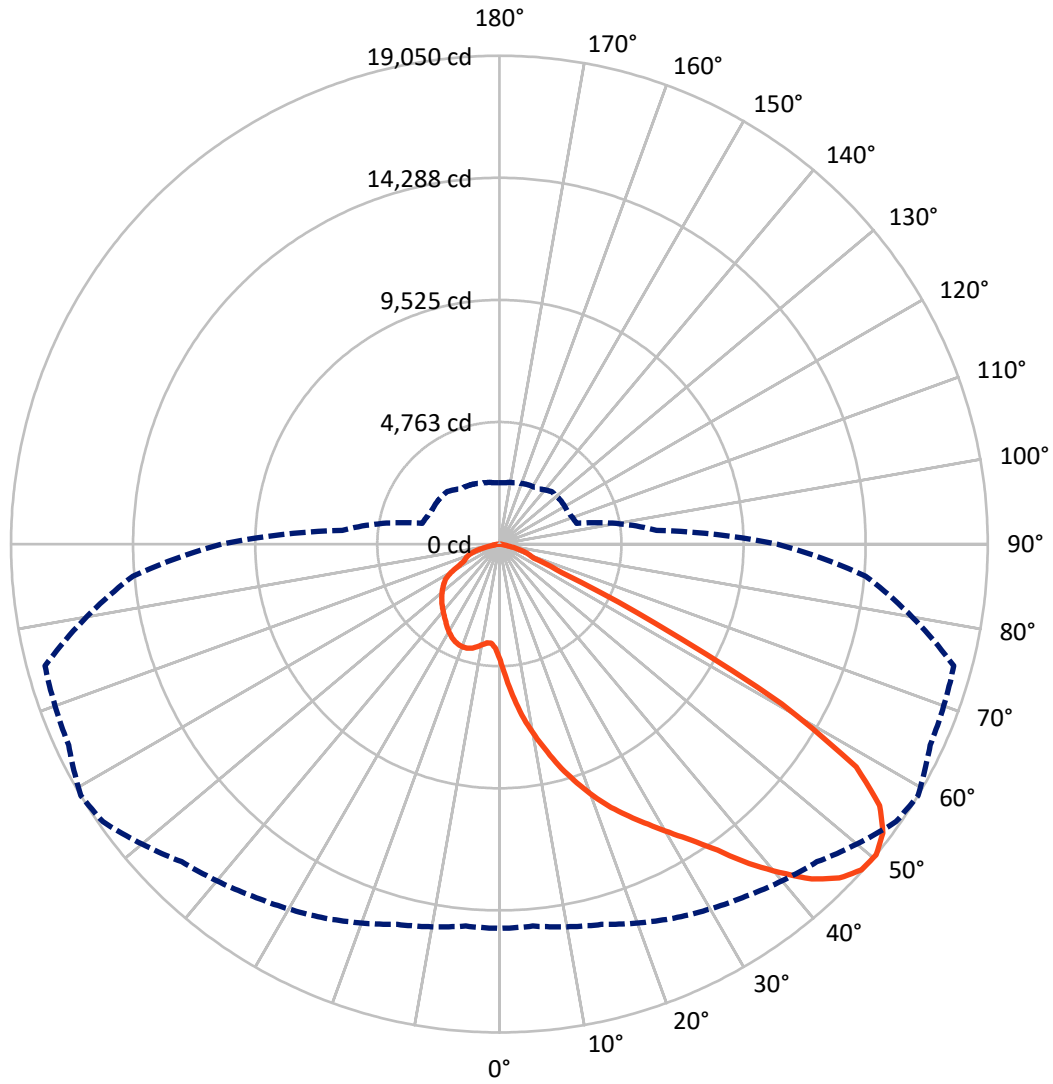
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6887.9	0.0	6887.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	23057.2	0.0	23057.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	29945.1	0.0	29945.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.0	1.7
10°-20°	1847.6	6.2
20°-30°	3498.6	11.7
30°-40°	5801.9	19.4
40°-50°	7925.6	26.5
50°-60°	7194.4	24.0
60°-70°	2395.8	8.0
70°-80°	698.8	2.3
80°-90°	73.4	0.2
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°	29945.1	100.0
0°-180°	29945.1	100.0

Coefficient of Utilization



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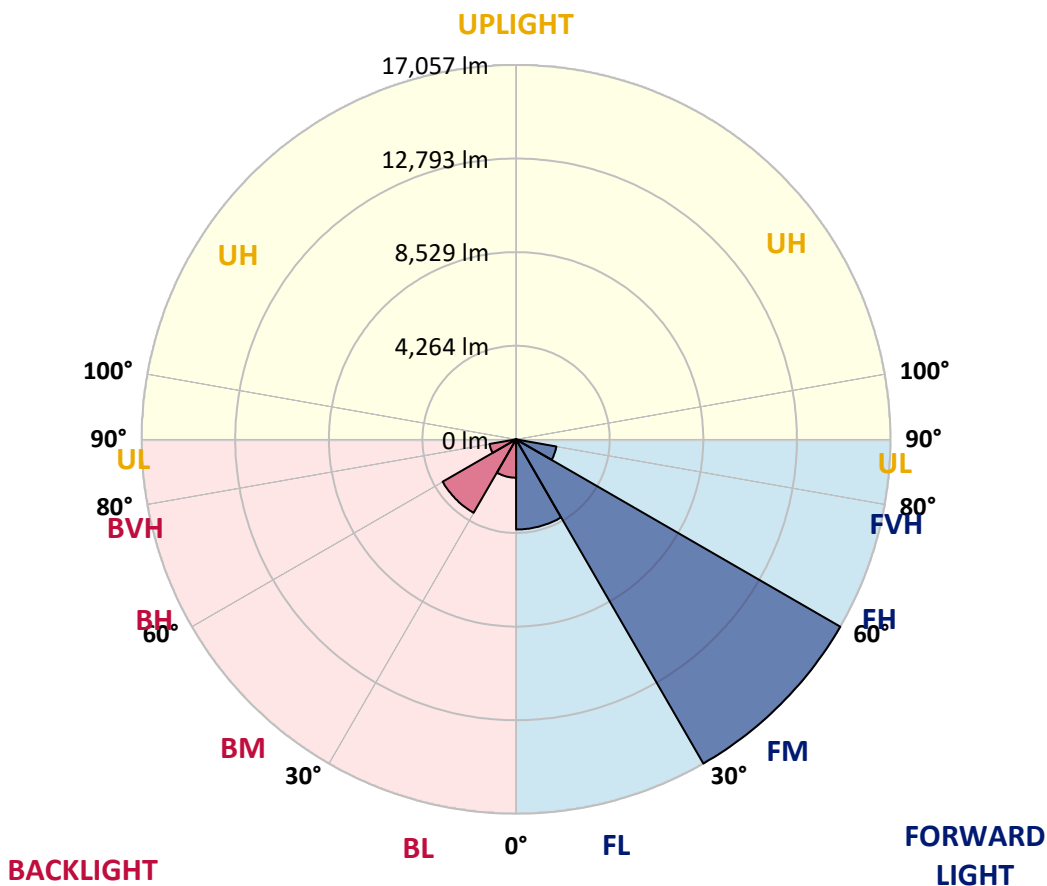
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4106.2	13.7			
FM (30°-60°)	17057.1	57.0			
FH (60°-80°)	1865.2	6.2			G2/5000
FVH (80°-90°)	28.7	0.1			G1/100
BL (0°-30°)	1749.0	5.8	B3/2500		
BM (30°-60°)	3864.8	12.9	B3/5000		
BH (60°-80°)	1229.4	4.1	B3/2500		G3/2500
BVH (80°-90°)	44.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9
2.5°	5878.4	5922.4	5854.1	5858.9	5688.2	5610.1	5390.6	5261.3	5176.0	4936.9	4719.8
5°	7063.9	7012.7	6959.0	6927.3	6778.5	6568.7	6295.6	6078.5	5878.4	5410.1	4958.9
7.5°	7790.8	7763.9	7727.4	7707.8	7561.5	7342.0	7068.8	6883.4	6593.1	5958.9	5249.1
10°	8407.9	8376.2	8354.2	8368.9	8249.3	8107.9	7810.3	7598.1	7271.2	6539.5	5600.4
12.5°	8886.0	8903.0	8910.4	8988.4	8937.2	8851.8	8544.5	8320.1	7956.6	7151.7	6012.6
15°	9264.0	9259.2	9344.5	9493.3	9576.3	9522.6	9276.2	9088.4	8644.5	7754.2	6456.5
17.5°	9351.9	9356.7	9490.9	9751.9	10022.6	10154.4	10015.3	9790.9	9351.9	8349.3	6917.5
20°	9422.6	9432.3	9571.4	9869.0	10264.1	10632.4	10654.4	10493.4	10115.3	8993.3	7385.9
22.5°	9869.0	9890.9	9927.5	10115.3	10471.4	10937.3	11193.4	11159.3	10842.2	9669.0	7890.8
25°	11042.2	10976.4	10798.3	10744.6	10881.2	11259.3	11695.9	11761.8	11605.7	10412.9	8434.7
27.5°	12491.1	12420.4	12156.9	11878.9	11583.7	11715.4	12181.3	12378.9	12381.3	11232.5	8981.1
30°	13805.8	13749.7	13535.1	13137.5	12627.7	12437.4	12781.4	13047.2	13205.8	12178.9	9603.1
32.5°	14930.3	14879.1	14588.8	14264.4	13766.8	13383.8	13508.2	13764.4	14135.1	13403.4	10376.3
35°	15876.7	15825.5	15547.4	15220.5	14759.5	14530.3	14486.4	14662.0	15142.5	14681.5	11264.2
37.5°	16645.0	16593.8	16303.5	15996.2	15645.0	15659.6	15725.5	15810.8	16086.5	16049.9	12213.0
40°	17142.6	17089.0	16881.6	16662.1	16440.1	16615.8	16942.6	16840.2	16986.5	17154.8	13086.3
42.5°	17364.6	17296.3	17176.8	17128.0	17059.7	17332.9	17962.2	17859.8	17684.1	17891.5	13735.1
45°	17142.6	17084.1	17081.7	17230.4	17389.0	17740.2	18667.1	18584.2	18140.3	18247.6	14122.9
47.5°	16462.1	16410.9	16549.9	16940.2	17330.4	17842.7	18981.8	18996.4	18464.7	18396.4	14374.1
50°	14991.3	14957.1	15359.6	16098.7	16771.9	17523.1	18881.8	19050.1	18542.7	18350.0	14342.4
52.5°	12000.8	12159.4	13035.0	14269.3	15576.7	16962.1	18511.0	18730.5	18167.1	18045.1	14171.7
55°	8215.2	8288.4	9164.0	10966.6	13039.9	15747.4	17659.7	17998.8	17723.2	17993.9	14349.8
57.5°	4253.9	4312.5	5002.8	6602.9	8844.5	12444.8	15296.2	16408.4	16828.0	18252.5	14903.5
60°	1746.5	1795.2	2080.6	2853.9	4461.3	7246.8	11008.1	12657.0	13642.4	16669.4	13235.0
62.5°	1268.4	1292.8	1429.4	1702.6	2336.7	3551.5	6229.7	6837.1	7529.8	10447.1	8403.0
65°	1068.4	1095.2	1205.0	1370.8	1705.0	2178.2	2661.2	2675.8	2949.0	4256.4	3114.8
67.5°	895.2	919.6	1017.1	1158.6	1378.1	1546.4	1429.4	1431.8	1426.9	1544.0	1492.8
70°	697.6	717.1	814.7	965.9	1080.6	992.8	1117.1	1236.7	1185.4	1231.8	1302.5
72.5°	509.8	531.7	617.1	731.8	702.5	707.4	904.9	1026.9	997.6	1048.9	1114.7
75°	368.3	383.0	426.9	365.9	385.4	465.9	636.6	702.5	731.8	775.7	834.2
77.5°	119.5	119.5	134.2	168.3	209.8	258.6	324.4	351.2	395.1	443.9	485.4
80°	61.0	63.4	75.6	92.7	117.1	148.8	190.3	202.5	224.4	251.2	268.3
82.5°	29.3	31.7	36.6	46.3	61.0	78.1	104.9	117.1	131.7	148.8	161.0
85°	7.3	7.3	9.8	14.6	19.5	29.3	39.0	46.3	58.5	70.7	78.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	7.3	9.8	12.2	14.6	19.5
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°	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9	4536.9
2.5°	4622.3	4485.7	4310.0	4161.3	4024.7	3919.8	3829.5	3785.6	3744.2	3714.9	3724.6
5°	4749.1	4514.9	4188.1	3961.2	3822.2	3751.5	3702.7	3678.3	3673.4	3653.9	3646.6
7.5°	4934.5	4600.3	4163.7	3934.4	3841.7	3805.1	3778.3	3763.7	3771.0	3751.5	3744.2
10°	5163.8	4741.8	4224.7	4022.2	3941.7	3914.9	3885.6	3866.1	3856.4	3827.1	3822.2
12.5°	5449.2	4917.4	4334.4	4134.4	4053.9	4007.6	3968.6	3934.4	3912.5	3875.9	3866.1
15°	5756.5	5112.5	4463.7	4244.2	4149.1	4080.8	4017.3	3966.1	3927.1	3878.3	3871.0
17.5°	6090.7	5317.4	4571.0	4319.8	4197.8	4107.6	4014.9	3939.3	3885.6	3822.2	3814.9
20°	6439.5	5524.8	4651.5	4356.4	4200.3	4078.3	3953.9	3853.9	3785.6	3722.2	3717.3
22.5°	6800.5	5715.0	4700.3	4346.6	4161.3	4010.0	3861.2	3749.0	3668.5	3592.9	3588.0
25°	7163.9	5898.0	4712.5	4307.6	4083.2	3907.6	3758.8	3627.1	3536.8	3451.5	3441.7
27.5°	7532.2	6051.6	4683.2	4229.6	3978.3	3788.1	3639.3	3510.0	3417.3	3331.9	3317.3
30°	7924.9	6183.3	4619.8	4127.1	3856.4	3661.2	3514.9	3417.3	3329.5	3244.1	3229.5
32.5°	8344.5	6298.0	4529.6	4002.7	3714.9	3534.4	3427.1	3339.3	3251.4	3175.8	3161.2
35°	8844.5	6373.6	4395.4	3841.7	3583.2	3441.7	3368.5	3266.1	3158.8	3075.8	3068.5
37.5°	9361.6	6432.1	4234.4	3688.1	3468.5	3388.0	3327.1	3188.0	3053.9	2953.9	2941.7
40°	9861.6	6480.9	4034.4	3544.1	3363.6	3349.0	3266.1	3092.9	2861.2	2749.0	2739.2
42.5°	10327.5	6495.6	3824.7	3390.5	3268.5	3261.2	3168.5	2900.2	2722.1	2651.4	2641.6
45°	10647.1	6483.4	3607.6	3246.6	3173.4	3134.4	3036.8	2761.2	2651.4	2588.0	2575.8
47.5°	10883.7	6419.9	3363.6	3095.3	3066.1	3012.4	2802.6	2673.4	2570.9	2507.5	2495.3
50°	10842.2	6156.5	3117.3	2949.0	2936.8	2890.4	2631.9	2563.6	2473.3	2405.0	2395.3
52.5°	10627.6	5656.5	2866.0	2788.0	2812.4	2722.1	2509.9	2431.9	2353.8	2275.8	2258.7
55°	10681.2	5295.5	2675.8	2631.9	2675.8	2470.9	2373.3	2290.4	2217.2	2141.6	2127.0
57.5°	10915.4	4939.4	2473.3	2463.6	2509.9	2278.2	2197.7	2092.8	1987.9	1927.0	1927.0
60°	9166.5	3600.2	2117.2	2141.6	2246.5	2122.1	2051.4	1944.0	1829.4	1775.7	1775.7
62.5°	5419.9	2258.7	1756.2	1729.4	1795.2	1873.3	1912.3	1824.5	1687.9	1617.2	1619.6
65°	2388.0	1644.0	1548.9	1526.9	1507.4	1561.1	1668.4	1675.7	1531.8	1448.9	1451.3
67.5°	1470.8	1487.9	1448.9	1431.8	1414.7	1405.0	1395.2	1400.1	1361.1	1285.5	1283.0
70°	1326.9	1373.3	1346.4	1331.8	1309.8	1292.8	1234.2	1139.1	1073.2	1053.7	1075.7
72.5°	1141.5	1205.0	1190.3	1183.0	1156.2	1114.7	1036.7	944.0	865.9	817.1	826.9
75°	861.0	912.3	919.6	922.0	892.7	853.7	773.2	695.2	626.9	575.6	587.8
77.5°	495.2	524.4	531.7	539.1	517.1	502.5	448.8	392.7	356.1	302.5	317.1
80°	275.6	287.8	287.8	290.3	278.1	261.0	224.4	192.7	175.6	151.2	153.7
82.5°	165.9	170.7	173.2	175.6	168.3	151.2	124.4	102.4	92.7	80.5	78.1
85°	80.5	85.4	85.4	87.8	75.6	65.9	51.2	39.0	34.1	24.4	26.8
87.5°	19.5	22.0	22.0	19.5	17.1	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)