

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: P638878

Luminaire Tested: GWS-SA4F-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638878
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30211.5 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

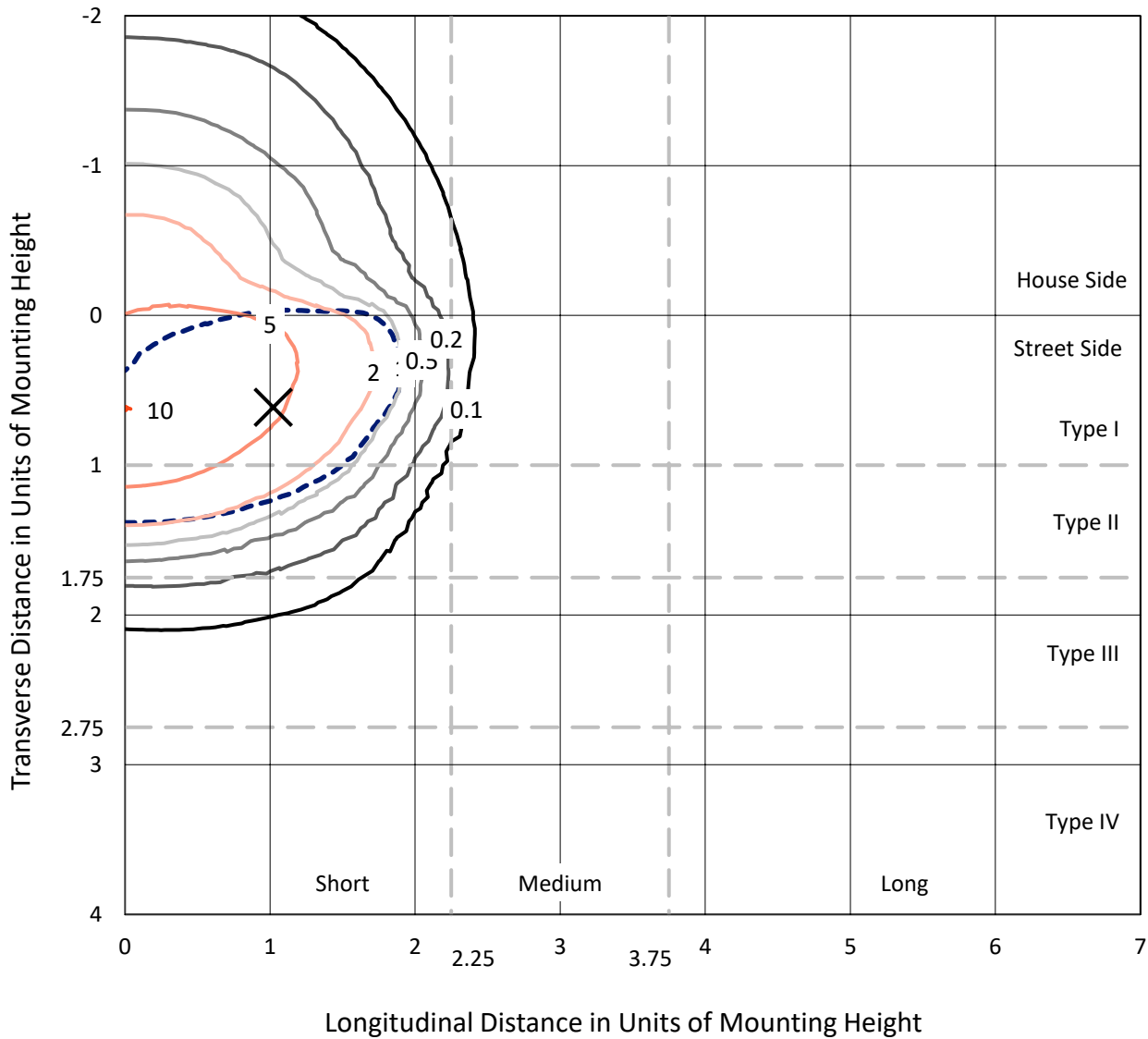
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

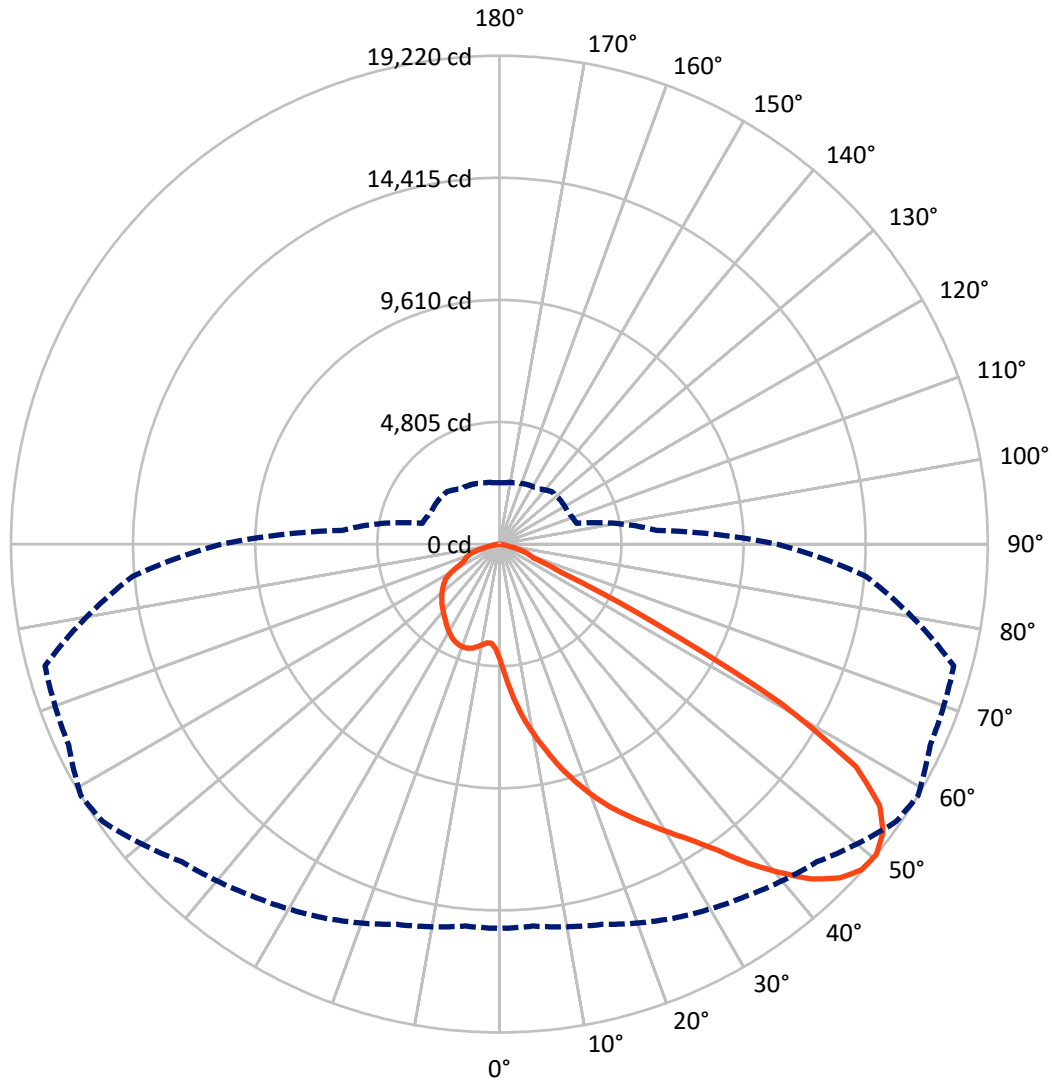
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	6949.2	0.0	6949.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	23262.3	0.0	23262.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	30211.5	0.0	30211.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.5	1.7
10°-20°	1864.1	6.2
20°-30°	3529.8	11.7
30°-40°	5853.5	19.4
40°-50°	7996.1	26.5
50°-60°	7258.4	24.0
60°-70°	2417.1	8.0
70°-80°	705.0	2.3
80°-90°	74.0	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°	30211.5	100.0
0°-180°	30211.5	100.0

Coefficient of Utilization



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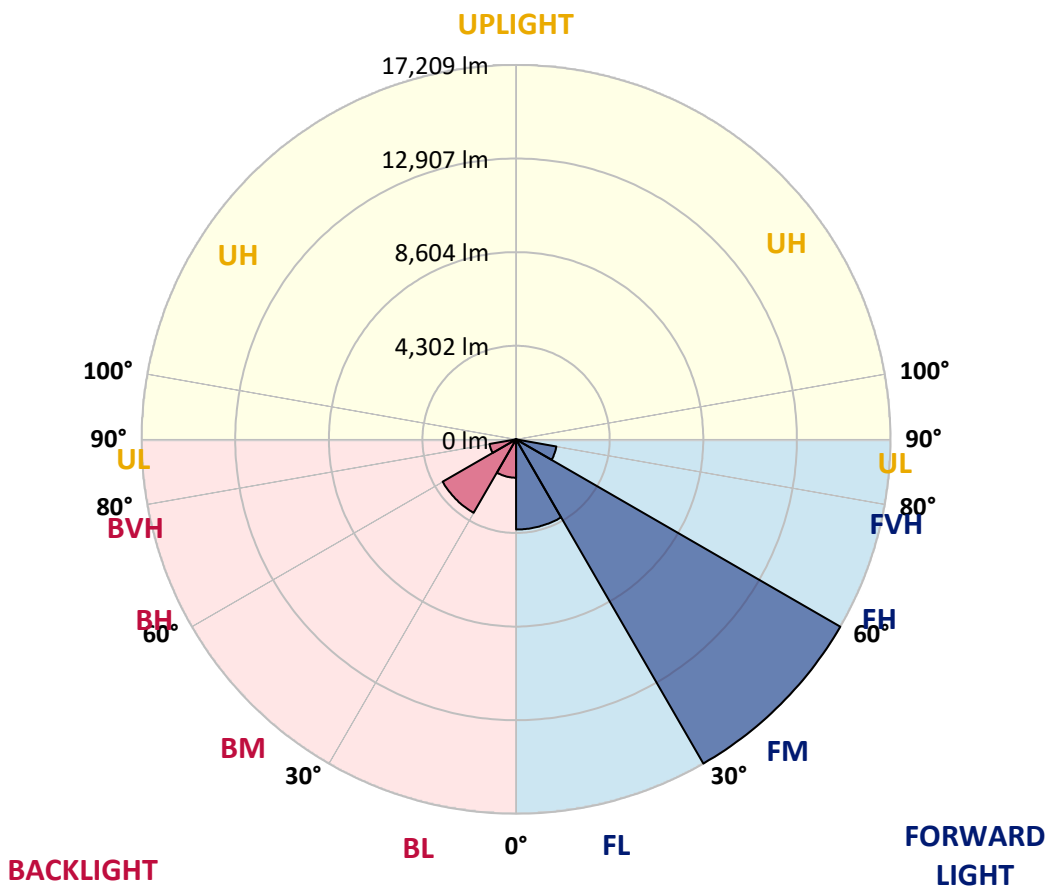
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4142.7	13.7			
FM (30°-60°)	17208.8	57.0			
FH (60°-80°)	1881.8	6.2			G2/5000
FVH (80°-90°)	29.0	0.1			G1/100
BL (0°-30°)	1764.6	5.8	B3/2500		
BM (30°-60°)	3899.2	12.9	B3/5000		
BH (60°-80°)	1240.4	4.1	B3/2500		G3/2500
BVH (80°-90°)	45.1	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°	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3
2.5°	5930.7	5975.0	5906.1	5911.1	5738.8	5660.0	5438.6	5308.1	5222.0	4980.8	4761.8
5°	7126.7	7075.1	7020.9	6988.9	6838.8	6627.2	6351.6	6132.5	5930.7	5458.3	5003.0
7.5°	7860.1	7833.0	7796.1	7776.4	7628.8	7407.3	7131.7	6944.6	6651.8	6012.0	5295.8
10°	8482.7	8450.7	8428.5	8443.3	8322.7	8180.0	7879.8	7665.7	7335.9	6597.6	5650.2
12.5°	8965.0	8982.2	8989.6	9068.4	9016.7	8930.6	8620.5	8394.1	8027.4	7215.3	6066.1
15°	9346.5	9341.5	9427.7	9577.8	9661.5	9607.3	9358.8	9169.3	8721.4	7823.2	6514.0
17.5°	9435.1	9440.0	9575.3	9838.6	10111.8	10244.7	10104.4	9878.0	9435.1	8423.6	6979.1
20°	9506.4	9516.3	9656.5	9956.8	10355.4	10727.0	10749.2	10586.7	10205.3	9073.3	7451.6
22.5°	9956.8	9978.9	10015.8	10205.3	10564.6	11034.6	11293.0	11258.6	10938.7	9755.0	7961.0
25°	11140.5	11074.0	10894.4	10840.2	10978.0	11359.5	11800.0	11866.4	11708.9	10505.5	8509.8
27.5°	12602.2	12530.9	12265.1	11984.5	11686.8	11819.7	12289.7	12489.0	12491.5	11332.4	9061.0
30°	13928.6	13872.0	13655.5	13254.4	12740.0	12548.1	12895.1	13163.3	13323.3	12287.2	9688.5
32.5°	15063.1	15011.4	14718.6	14391.3	13889.3	13502.9	13628.4	13886.8	14260.9	13522.6	10468.6
35°	16017.9	15966.3	15685.7	15356.0	14890.8	14659.5	14615.2	14792.4	15277.2	14812.1	11364.4
37.5°	16793.1	16741.4	16448.6	16138.5	15784.2	15798.9	15865.4	15951.5	16229.6	16192.7	12321.7
40°	17295.1	17241.0	17031.8	16810.3	16586.4	16763.6	17093.3	16990.0	17137.6	17307.4	13202.7
42.5°	17519.1	17450.2	17329.6	17280.4	17211.5	17487.1	18122.0	18018.6	17841.5	18050.6	13857.3
45°	17295.1	17236.1	17233.6	17383.7	17543.7	17898.1	18833.2	18749.5	18301.6	18409.9	14248.6
47.5°	16608.5	16556.9	16697.1	17090.9	17484.6	18001.4	19150.6	19165.4	18628.9	18560.0	14502.0
50°	15124.6	15090.2	15496.2	16241.9	16921.1	17679.0	19049.8	19219.6	18707.7	18513.3	14470.0
52.5°	12107.6	12267.5	13151.0	14396.2	15715.2	17113.0	18675.7	18897.2	18328.7	18205.7	14297.8
55°	8288.3	8362.1	9245.6	11064.2	13155.9	15887.5	17816.8	18158.9	17880.8	18154.0	14477.4
57.5°	4291.8	4350.9	5047.3	6661.6	8923.2	12555.5	15432.2	16554.4	16977.7	18414.8	15036.0
60°	1762.0	1811.2	2099.1	2879.2	4501.0	7311.3	11106.0	12769.6	13763.8	16817.7	13352.8
62.5°	1279.7	1304.3	1442.1	1717.7	2357.5	3583.1	6285.1	6897.9	7596.8	10540.0	8477.8
65°	1077.9	1104.9	1215.7	1383.0	1720.2	2197.6	2684.8	2699.6	2975.2	4294.3	3142.6
67.5°	903.1	927.8	1026.2	1168.9	1390.4	1560.2	1442.1	1444.5	1439.6	1557.7	1506.1
70°	703.8	723.5	821.9	974.5	1090.2	1001.6	1127.1	1247.7	1196.0	1242.7	1314.1
72.5°	514.3	536.5	622.6	738.3	708.7	713.7	913.0	1036.0	1006.5	1058.2	1124.6
75°	371.6	386.4	430.7	369.1	388.8	470.0	642.3	708.7	738.3	782.6	841.6
77.5°	120.6	120.6	135.3	169.8	211.6	260.9	327.3	354.4	398.7	447.9	489.7
80°	61.5	64.0	76.3	93.5	118.1	150.1	191.9	204.3	226.4	253.5	270.7
82.5°	29.5	32.0	36.9	46.8	61.5	78.7	105.8	118.1	132.9	150.1	162.4
85°	7.4	7.4	9.8	14.8	19.7	29.5	39.4	46.8	59.1	71.4	78.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	7.4	9.8	12.3	14.8	19.7
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°	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3	4577.3
2.5°	4663.4	4525.6	4348.4	4198.3	4060.5	3954.7	3863.6	3819.3	3777.5	3747.9	3757.8
5°	4791.4	4555.1	4225.3	3996.5	3856.2	3784.8	3735.6	3711.0	3706.1	3686.4	3679.0
7.5°	4978.4	4641.2	4200.7	3969.4	3875.9	3839.0	3811.9	3797.2	3804.5	3784.8	3777.5
10°	5209.7	4784.0	4262.3	4058.0	3976.8	3949.7	3920.2	3900.5	3890.7	3861.1	3856.2
12.5°	5497.6	4961.2	4373.0	4171.2	4090.0	4043.2	4003.9	3969.4	3947.3	3910.4	3900.5
15°	5807.7	5158.0	4503.4	4281.9	4186.0	4117.1	4053.1	4001.4	3962.0	3912.8	3905.4
17.5°	6144.8	5364.7	4611.7	4358.2	4235.2	4144.1	4050.6	3974.3	3920.2	3856.2	3848.8
20°	6496.8	5573.9	4692.9	4395.2	4237.7	4114.6	3989.1	3888.2	3819.3	3755.3	3750.4
22.5°	6861.0	5765.9	4742.1	4385.3	4198.3	4045.7	3895.6	3782.4	3701.2	3624.9	3620.0
25°	7227.6	5950.4	4754.4	4345.9	4119.5	3942.3	3792.2	3659.3	3568.3	3482.2	3472.3
27.5°	7599.2	6105.5	4724.9	4267.2	4013.7	3821.8	3671.6	3541.2	3447.7	3361.6	3346.8
30°	7995.4	6238.4	4660.9	4163.8	3890.7	3693.8	3546.1	3447.7	3359.1	3273.0	3258.2
32.5°	8418.7	6354.0	4569.9	4038.3	3747.9	3565.8	3457.6	3369.0	3280.4	3204.1	3189.3
35°	8923.2	6430.3	4434.5	3875.9	3615.0	3472.3	3398.5	3295.1	3186.9	3103.2	3095.8
37.5°	9444.9	6489.4	4272.1	3720.9	3499.4	3418.2	3356.7	3216.4	3081.0	2980.1	2967.8
40°	9949.4	6538.6	4070.3	3575.7	3393.6	3378.8	3295.1	3120.4	2886.6	2773.4	2763.6
42.5°	10419.4	6553.4	3858.7	3420.6	3297.6	3290.2	3196.7	2926.0	2746.4	2675.0	2665.1
45°	10741.8	6541.0	3639.7	3275.4	3201.6	3162.2	3063.8	2785.7	2675.0	2611.0	2598.7
47.5°	10980.5	6477.1	3393.6	3122.9	3093.3	3039.2	2827.6	2697.1	2593.8	2529.8	2517.5
50°	10938.7	6211.3	3145.0	2975.2	2962.9	2916.2	2655.3	2586.4	2495.3	2426.4	2416.6
52.5°	10722.1	5706.8	2891.5	2812.8	2837.4	2746.4	2532.3	2453.5	2374.8	2296.0	2278.8
55°	10776.2	5342.6	2699.6	2655.3	2699.6	2492.9	2394.4	2310.8	2236.9	2160.7	2145.9
57.5°	11012.5	4983.3	2495.3	2485.5	2532.3	2298.5	2217.3	2111.4	2005.6	1944.1	1944.1
60°	9248.0	3632.3	2136.1	2160.7	2266.5	2141.0	2069.6	1961.3	1845.7	1791.5	1791.5
62.5°	5468.1	2278.8	1771.8	1744.8	1811.2	1890.0	1929.3	1840.7	1702.9	1631.6	1634.0
65°	2409.2	1658.6	1562.7	1540.5	1520.8	1575.0	1683.2	1690.6	1545.4	1461.8	1464.2
67.5°	1483.9	1501.1	1461.8	1444.5	1427.3	1417.5	1407.6	1412.6	1373.2	1296.9	1294.4
70°	1338.7	1385.5	1358.4	1343.6	1321.5	1304.3	1245.2	1149.2	1082.8	1063.1	1085.3
72.5°	1151.7	1215.7	1200.9	1193.5	1166.5	1124.6	1045.9	952.4	873.6	824.4	834.2
75°	868.7	920.4	927.8	930.2	900.7	861.3	780.1	701.4	632.4	580.8	593.1
77.5°	499.6	529.1	536.5	543.9	521.7	506.9	452.8	396.2	359.3	305.2	319.9
80°	278.1	290.4	290.4	292.8	280.5	263.3	226.4	194.4	177.2	152.6	155.0
82.5°	167.3	172.3	174.7	177.2	169.8	152.6	125.5	103.4	93.5	81.2	78.7
85°	81.2	86.1	86.1	88.6	76.3	66.4	51.7	39.4	34.5	24.6	27.1
87.5°	19.7	22.1	22.1	19.7	17.2	12.3	7.4	2.5	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)