

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: P638882

Luminaire Tested: GWS-SA4F-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 29298.6 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

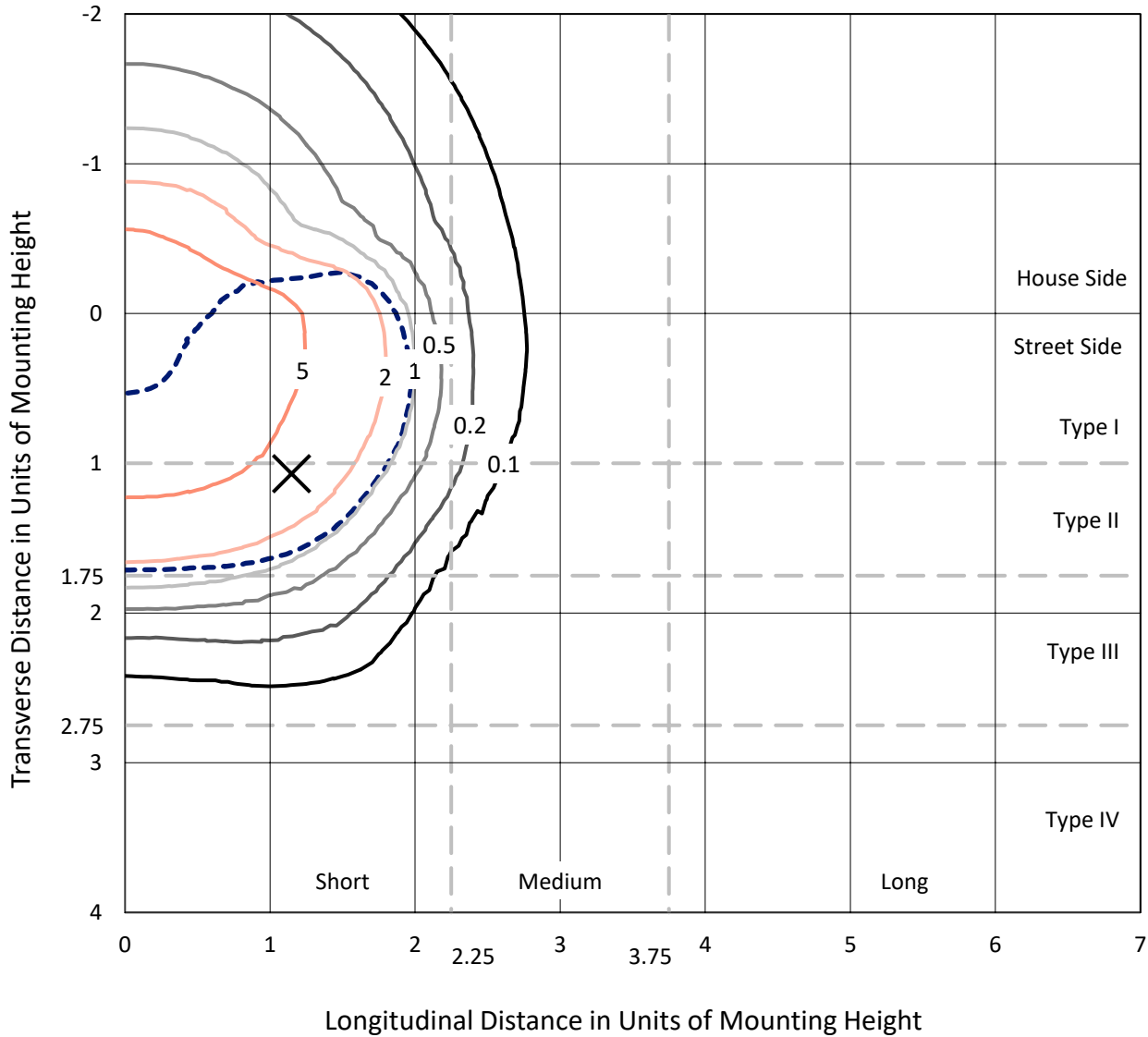
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

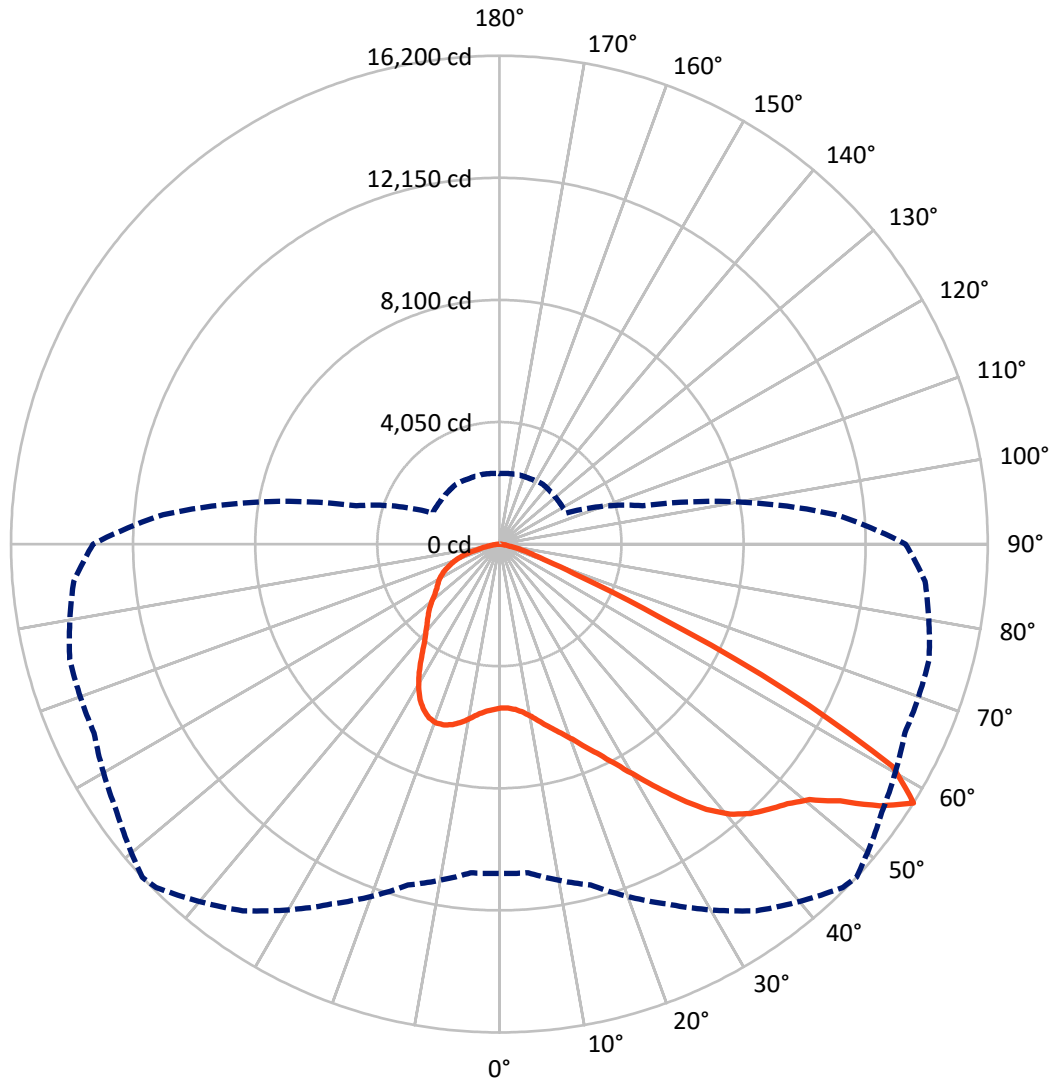
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9272.9	0.0	9272.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20025.7	0.0	20025.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	29298.6	0.0	29298.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.9	1.8
10°-20°	1762.6	6.0
20°-30°	3173.8	10.8
30°-40°	4793.7	16.4
40°-50°	6455.3	22.0
50°-60°	7756.9	26.5
60°-70°	3777.8	12.9
70°-80°	930.7	3.2
80°-90°	111.8	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°	29298.6	100.0
0°-180°	29298.6	100.0

Coefficient of Utilization



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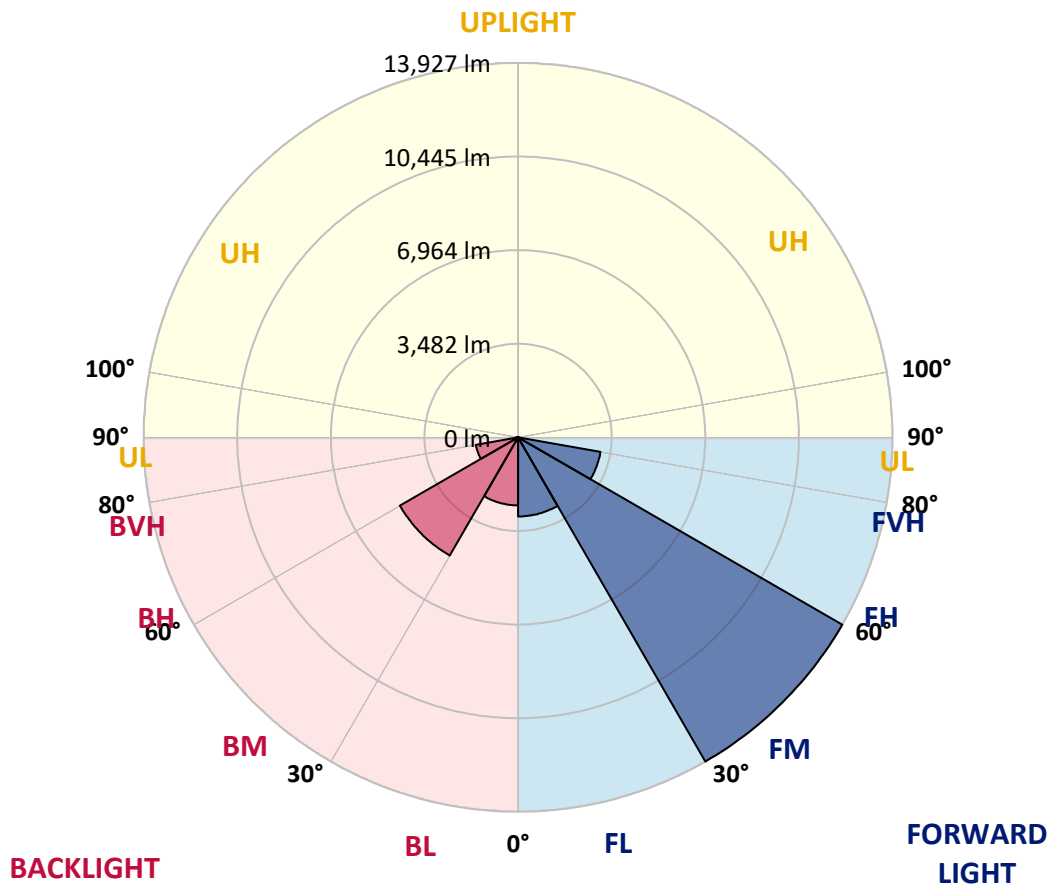
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2942.9	10.0			
FM (30°-60°)	13927.2	47.5			
FH (60°-80°)	3113.6	10.6			G2/5000
FVH (80°-90°)	42.0	0.1			G1/100
BL (0°-30°)	2529.5	8.6	B4/5000		
BM (30°-60°)	5078.8	17.3	B4/8500		
BH (60°-80°)	1594.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	69.8	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°	47°	55°	65°	75°	85°
0°	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5
2.5°	5423.6	5421.2	5421.2	5435.9	5435.9	5440.9	5448.2	5455.6	5458.1	5445.8	5418.7
5°	5482.7	5482.7	5482.7	5495.0	5495.0	5499.9	5509.8	5512.2	5509.8	5490.1	5463.0
7.5°	5576.2	5576.2	5578.7	5593.4	5605.7	5613.1	5630.3	5627.9	5620.5	5588.5	5554.0
10°	5728.8	5736.1	5743.5	5760.8	5785.4	5802.6	5814.9	5814.9	5805.0	5755.8	5711.5
12.5°	5945.3	5955.2	5962.5	5977.3	5997.0	6026.5	6053.6	6053.6	6041.3	5979.8	5913.3
15°	6198.8	6208.6	6206.2	6211.1	6248.0	6289.8	6312.0	6326.7	6331.7	6245.5	6142.2
17.5°	6489.2	6499.0	6489.2	6474.4	6479.3	6545.8	6585.1	6639.3	6671.3	6555.6	6390.7
20°	6752.5	6742.6	6742.6	6752.5	6767.2	6848.4	6907.5	6996.1	7035.5	6895.2	6639.3
22.5°	7030.5	7052.7	7042.8	7042.8	7101.9	7237.2	7308.6	7424.3	7466.1	7284.0	6939.5
25°	7389.8	7409.5	7404.6	7409.5	7478.4	7670.3	7741.7	7955.8	7997.6	7736.8	7271.7
27.5°	7783.5	7815.5	7830.3	7825.4	7936.1	8187.1	8275.7	8573.5	8649.7	8243.7	7626.0
30°	8295.4	8329.8	8342.1	8337.2	8467.6	8809.7	8910.6	9250.2	9358.5	8844.1	8076.4
32.5°	8888.4	8922.9	8959.8	8974.6	9141.9	9491.3	9636.5	9988.4	10143.5	9538.1	8620.2
35°	9476.6	9506.1	9577.5	9693.1	9922.0	10278.8	10406.8	10753.7	10903.8	10259.1	9277.3
37.5°	10126.2	10145.9	10207.4	10367.4	10697.1	11036.7	11164.7	11496.9	11514.1	10955.5	10020.4
40°	10837.4	10837.4	10825.1	10982.6	11327.1	11669.2	11779.9	11971.8	11870.9	11492.0	10743.9
42.5°	11440.3	11430.5	11440.3	11588.0	11843.9	12121.9	12217.9	12181.0	12053.0	11902.9	11398.5
45°	11984.1	11991.5	12080.1	12193.3	12326.2	12491.1	12547.7	12338.5	12222.8	12232.7	11922.6
47.5°	12353.3	12360.6	12567.4	12756.8	12838.0	12889.7	12865.1	12574.7	12515.7	12626.4	12326.2
50°	12402.5	12441.9	12798.7	13187.5	13389.3	13396.6	13327.7	12973.4	12956.2	13081.7	12542.7
52.5°	12412.3	12451.7	12897.1	13598.4	14122.6	14233.3	14154.6	13785.5	13605.8	13480.3	12808.5
55°	12375.4	12419.7	12911.9	13874.0	14878.1	15321.0	15328.4	14806.7	14233.3	14149.7	13566.4
57.5°	10926.0	10943.2	11706.1	13172.7	14848.5	16103.5	16199.5	15490.8	14836.2	14757.5	14174.3
60°	7611.3	7680.2	8509.5	10446.1	12473.8	14686.1	14996.2	14789.5	14351.4	13778.1	12161.3
62.5°	3811.8	3870.9	4702.6	6533.4	8603.0	10350.2	10682.4	10901.4	11004.7	10389.5	8280.6
65°	1641.4	1685.7	2202.4	3413.1	4869.9	5714.0	5829.7	6093.0	6737.7	6011.8	4461.4
67.5°	1097.5	1127.1	1390.4	2081.8	2869.3	2923.4	2906.2	2962.8	3103.1	2561.7	2015.4
70°	841.6	866.2	1043.4	1525.7	2062.2	1764.4	1670.9	1515.9	1646.3	1678.3	1634.0
72.5°	610.3	630.0	762.9	1040.9	1291.9	1127.1	1112.3	1191.0	1368.2	1417.4	1390.4
75°	393.7	403.6	484.8	570.9	666.9	723.5	753.0	895.7	1075.4	1112.3	1080.3
77.5°	263.3	270.7	317.4	366.7	379.0	381.4	391.3	455.2	578.3	647.2	639.8
80°	137.8	137.8	155.0	155.0	177.2	211.6	221.5	263.3	319.9	354.4	356.8
82.5°	54.1	56.6	66.4	73.8	88.6	108.3	115.7	137.8	167.3	191.9	214.1
85°	22.1	24.6	27.1	32.0	39.4	49.2	51.7	59.1	78.7	98.4	110.7
87.5°	0.0	0.0	2.5	2.5	4.9	7.4	7.4	9.8	12.3	22.1	29.5
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°	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5	5433.5
2.5°	5450.7	5418.7	5450.7	5460.5	5487.6	5497.4	5480.2	5477.8	5477.8	5453.2	5445.8
5°	5487.6	5458.1	5490.1	5504.8	5544.2	5568.8	5573.7	5593.4	5605.7	5595.9	5593.4
7.5°	5578.7	5541.7	5576.2	5598.3	5650.0	5689.4	5706.6	5750.9	5782.9	5778.0	5775.5
10°	5738.6	5689.4	5728.8	5765.7	5822.3	5869.0	5871.5	5896.1	5928.1	5918.2	5913.3
12.5°	5923.2	5876.4	5920.7	5957.6	6024.1	6043.7	6011.8	6001.9	6006.8	5994.5	5984.7
15°	6149.6	6083.1	6122.5	6164.3	6201.2	6179.1	6110.2	6083.1	6080.7	6063.4	6053.6
17.5°	6376.0	6292.3	6321.8	6344.0	6326.7	6257.8	6171.7	6125.0	6102.8	6068.4	6058.5
20°	6599.9	6494.1	6489.2	6471.9	6393.2	6267.7	6152.0	6058.5	6001.9	5955.2	5937.9
22.5°	6855.8	6708.2	6634.3	6555.6	6383.3	6179.1	6004.4	5871.5	5780.4	5721.4	5701.7
25°	7131.4	6922.3	6769.7	6612.2	6284.9	5989.6	5746.0	5563.9	5455.6	5391.6	5369.5
27.5°	7404.6	7116.7	6887.8	6619.6	6088.0	5716.5	5389.2	5143.1	5034.8	4983.1	4965.9
30°	7773.7	7375.0	7028.1	6523.6	5829.7	5337.5	4929.0	4680.5	4609.1	4572.2	4557.4
32.5°	8199.4	7702.3	7215.1	6321.8	5499.9	4894.6	4463.9	4291.7	4242.4	4171.1	4168.6
35°	8760.5	8169.9	7392.3	6024.1	5084.0	4419.6	4107.1	3984.1	3895.5	3782.3	3772.4
37.5°	9415.1	8753.1	7488.2	5645.1	4599.3	4028.3	3841.3	3703.5	3560.8	3410.7	3391.0
40°	10091.8	9434.7	7495.6	5197.2	4124.3	3770.0	3612.5	3432.8	3255.7	3088.3	3066.2
42.5°	10803.0	10069.6	7365.2	4680.5	3735.5	3546.0	3386.1	3159.7	2960.4	2847.2	2834.9
45°	11437.8	10581.5	7069.9	4136.6	3447.6	3359.0	3154.8	2911.1	2805.3	2724.1	2706.9
47.5°	11937.4	10921.1	6671.3	3649.4	3213.8	3167.1	2901.3	2775.8	2694.6	2620.8	2603.5
50°	12183.5	10997.4	6152.0	3253.2	2997.3	2940.7	2758.6	2662.6	2608.5	2549.4	2534.6
52.5°	12488.6	11083.5	5704.2	2921.0	2785.6	2709.4	2640.4	2564.2	2524.8	2487.9	2475.6
55°	13189.9	11408.3	5467.9	2655.2	2583.9	2549.4	2539.6	2475.6	2463.3	2438.7	2416.5
57.5°	13475.4	11199.1	4909.3	2438.7	2423.9	2428.8	2453.4	2394.4	2382.1	2352.5	2337.8
60°	10837.4	8465.2	3324.6	2251.6	2291.0	2323.0	2347.6	2288.6	2271.3	2266.4	2246.7
62.5°	6944.4	5207.1	2320.5	2076.9	2136.0	2175.4	2190.1	2133.5	2121.2	2160.6	2163.1
65°	3614.9	2837.3	1882.5	1889.9	1939.1	1998.2	2027.7	2008.0	2003.1	2044.9	2047.4
67.5°	1845.6	1734.9	1641.4	1668.4	1707.8	1784.1	1853.0	1939.1	1968.6	1973.6	1976.0
70°	1572.5	1523.2	1476.5	1493.7	1535.5	1577.4	1643.8	1685.7	1636.4	1624.1	1619.2
72.5°	1338.7	1301.8	1279.6	1299.3	1321.5	1314.1	1294.4	1314.1	1321.5	1323.9	1326.4
75°	1040.9	1013.9	996.6	999.1	999.1	972.0	935.1	913.0	888.4	868.7	868.7
77.5°	637.3	642.3	659.5	657.0	654.6	644.7	607.8	588.1	529.1	511.8	511.8
80°	364.2	371.6	388.8	393.7	393.7	381.4	344.5	322.4	295.3	283.0	280.5
82.5°	221.5	231.3	241.2	246.1	248.5	233.8	201.8	184.6	169.8	157.5	157.5
85°	115.7	120.6	130.4	132.9	125.5	110.7	93.5	86.1	71.4	68.9	68.9
87.5°	32.0	34.5	39.4	32.0	29.5	22.1	12.3	9.8	4.9	2.5	2.5
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)