

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: P638859

Luminaire Tested: GWS-SA4F-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 28747.3 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

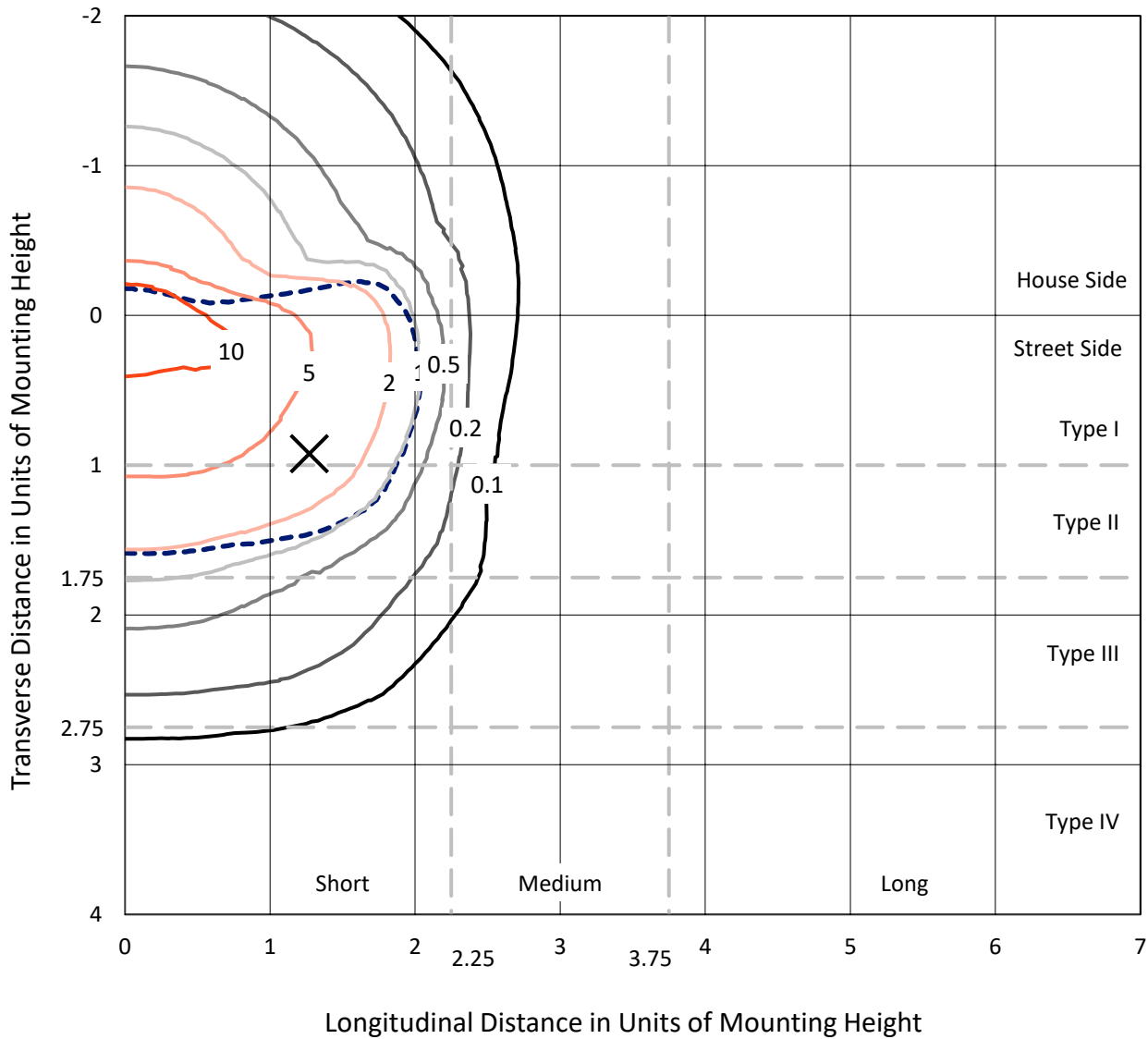
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

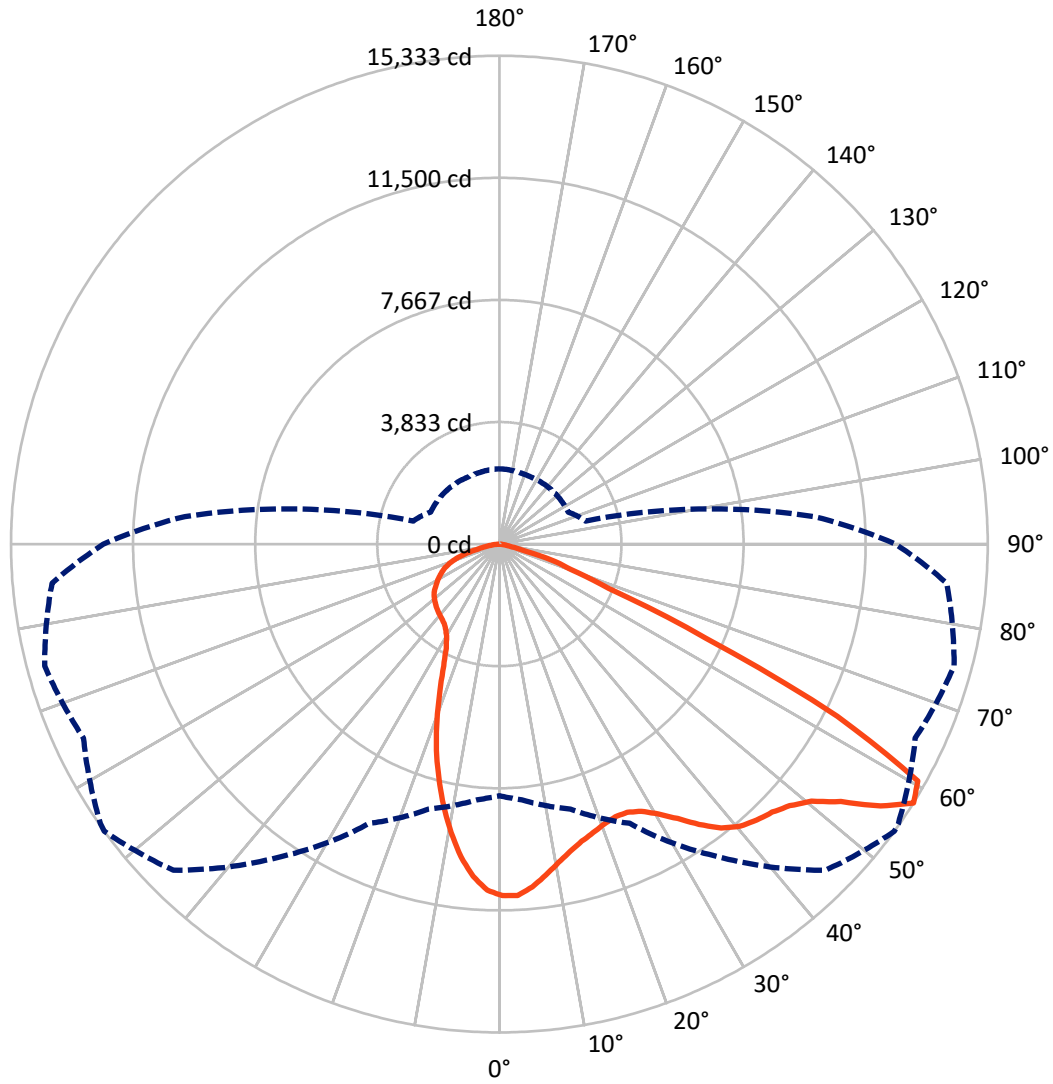
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8357.2	0.0	8357.2
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	20390.1	0.0	20390.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	28747.3	0.0	28747.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.1	3.4
10°-20°	2314.8	8.1
20°-30°	3203.4	11.1
30°-40°	4451.1	15.5
40°-50°	5878.5	20.4
50°-60°	6985.8	24.3
60°-70°	3870.2	13.5
70°-80°	963.8	3.4
80°-90°	109.6	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°	28747.3	100.0
0°-180°	28747.3	100.0

Coefficient of Utilization



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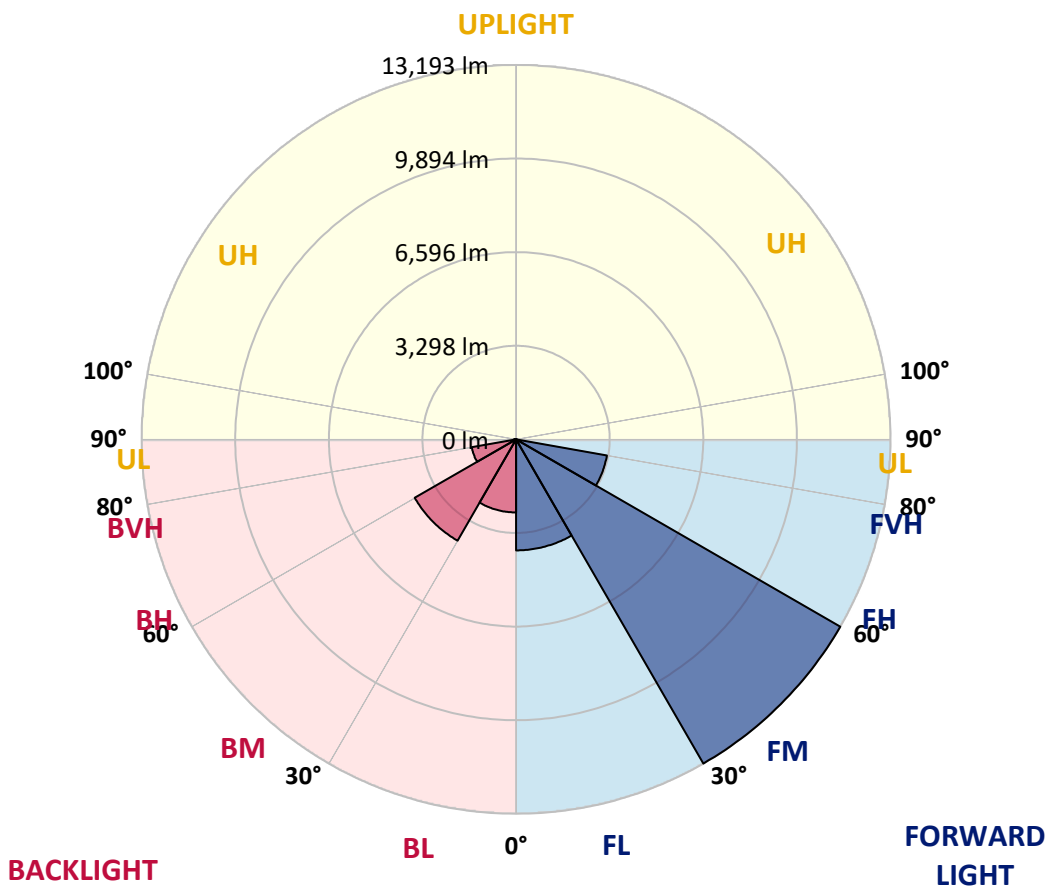
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3913.0	13.6			
FM (30°-60°)	13192.6	45.9			
FH (60°-80°)	3250.3	11.3			G2/5000
FVH (80°-90°)	34.3	0.1			G1/100
BL (0°-30°)	2575.3	9.0	B4/5000		
BM (30°-60°)	4122.8	14.3	B3/5000		
BH (60°-80°)	1583.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	75.3	0.3			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°	54°	55°	65°	75°	85°
0°	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7
2.5°	10830.0	10852.2	10866.9	10918.6	10962.9	11002.3	11044.1	11044.1	11041.7	11034.3	11019.5
5°	10401.9	10426.5	10460.9	10532.3	10628.2	10697.1	10810.3	10820.2	10869.4	10889.1	10879.2
7.5°	9904.8	9912.2	9956.4	10050.0	10202.5	10325.6	10488.0	10507.7	10625.8	10694.7	10682.4
10°	9360.9	9336.3	9415.1	9552.9	9752.2	9958.9	10168.1	10185.3	10374.8	10505.2	10495.4
12.5°	8863.8	8866.3	8945.1	9112.4	9360.9	9616.9	9897.4	9936.8	10170.5	10337.9	10320.6
15°	8448.0	8457.8	8553.8	8743.3	9026.3	9331.4	9680.8	9717.7	10013.0	10234.5	10185.3
17.5°	8115.8	8125.6	8209.3	8425.8	8728.5	9097.6	9523.3	9560.3	9926.9	10190.2	10089.3
20°	7886.9	7882.0	7963.2	8169.9	8482.4	8883.5	9385.5	9439.7	9899.8	10207.4	10025.3
22.5°	7793.4	7790.9	7850.0	8019.8	8312.6	8718.7	9301.9	9375.7	9929.4	10283.7	9986.0
25°	7840.1	7830.3	7882.0	8007.5	8241.3	8654.7	9326.5	9405.2	10054.9	10441.2	9993.4
27.5°	7985.3	7973.0	8017.3	8130.5	8307.7	8721.1	9498.7	9589.8	10320.6	10729.1	10091.8
30°	8206.8	8199.4	8243.7	8352.0	8507.0	8942.6	9828.5	9931.8	10731.6	11177.0	10305.9
32.5°	8465.2	8452.9	8531.6	8657.1	8836.8	9346.2	10271.4	10406.8	11218.8	11752.8	10665.2
35°	8755.6	8745.7	8854.0	9036.1	9294.5	9907.2	10807.9	10955.5	11715.9	12405.0	11142.6
37.5°	9038.6	9038.6	9247.7	9518.4	9843.2	10517.5	11312.4	11405.9	12060.4	12983.2	11654.4
40°	9289.6	9304.3	9619.3	10025.3	10438.8	11068.7	11644.6	11723.3	12213.0	13381.9	12099.8
42.5°	9567.6	9579.9	9946.6	10478.1	10970.3	11514.1	11846.3	11885.7	12242.5	13581.2	12414.8
45°	9789.1	9806.3	10261.6	10830.0	11432.9	11848.8	12006.3	12040.8	12284.4	13689.5	12643.7
47.5°	9904.8	9929.4	10451.1	11113.0	11745.5	12149.0	12269.6	12284.4	12456.6	13879.0	12919.3
50°	9885.1	9934.3	10522.4	11253.3	11976.8	12451.7	12692.9	12717.5	12808.5	14157.1	13241.6
52.5°	10059.8	10081.9	10675.0	11420.6	12306.5	13010.3	13428.7	13463.1	13421.3	14366.2	13433.6
55°	9769.4	9875.2	10485.5	11396.0	12808.5	13874.1	14518.8	14501.6	13977.4	14600.0	13753.5
57.5°	7901.7	8056.7	8615.3	9673.5	11981.7	14479.4	15333.3	15291.5	14408.1	14779.6	14100.5
60°	5470.4	5495.0	5999.5	6750.0	9247.7	12791.3	15094.6	15185.7	14486.8	14553.2	13458.2
62.5°	4375.3	4367.9	4414.7	4434.4	5881.3	8991.8	11915.3	12247.5	12035.8	11339.4	9538.1
65°	3735.5	3762.6	3900.4	3829.0	3838.9	5064.4	7119.1	7165.9	7018.2	6767.2	5044.7
67.5°	2923.4	2970.2	3213.8	3491.9	3403.3	3260.6	3693.7	3671.5	2893.9	2239.3	1850.5
70°	1830.8	1860.4	2121.2	2741.3	2962.8	2677.4	2374.7	2364.8	1550.3	1274.7	1397.7
72.5°	1068.0	1072.9	1146.7	1528.2	1966.2	1830.8	1747.2	1683.2	996.6	1016.3	1114.7
75°	588.1	588.1	585.7	659.5	775.2	686.6	664.4	647.2	666.9	755.5	829.3
77.5°	123.0	125.5	132.9	174.7	226.4	275.6	347.0	349.4	435.6	504.5	563.5
80°	56.6	59.1	73.8	93.5	120.6	160.0	211.6	214.1	263.3	317.4	356.8
82.5°	29.5	32.0	39.4	49.2	64.0	83.7	118.1	118.1	157.5	187.0	211.6
85°	9.8	9.8	14.8	19.7	27.1	34.5	46.8	46.8	68.9	91.1	105.8
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	9.8	9.8	12.3	14.8	24.6
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°	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7
2.5°	10987.5	10911.2	10913.7	10928.5	10881.7	10810.3	10763.6	10704.5	10667.6	10660.2	10687.3
5°	10830.0	10741.4	10679.9	10615.9	10483.1	10325.6	10202.5	10101.6	10035.2	10010.6	9981.1
7.5°	10613.5	10497.8	10342.8	10163.2	9922.0	9641.5	9444.6	9260.0	9132.1	9095.2	9077.9
10°	10396.9	10229.6	9954.0	9619.3	9218.2	8839.2	8482.4	8209.3	7992.7	7869.7	7909.0
12.5°	10173.0	9966.3	9535.6	9021.3	8462.7	7891.8	7424.3	6971.5	6622.0	6447.3	6395.7
15°	9976.1	9695.6	9095.2	8398.8	7655.6	6937.0	6260.3	5581.1	5138.2	4897.0	4830.6
17.5°	9808.8	9444.6	8630.1	7763.9	6875.5	5851.8	5020.1	4390.1	4087.4	3954.5	3944.7
20°	9643.9	9198.5	8169.9	7079.8	5974.9	4828.1	4084.9	3789.7	3681.4	3634.6	3632.2
22.5°	9496.3	8940.1	7685.1	6395.7	5079.1	4057.9	3649.4	3521.4	3491.9	3491.9	3487.0
25°	9370.8	8681.7	7188.0	5669.7	4269.5	3612.5	3423.0	3368.9	3381.2	3403.3	3405.8
27.5°	9319.1	8480.0	6708.2	4924.1	3710.9	3354.1	3268.0	3260.6	3295.0	3329.5	3334.4
30°	9373.2	8342.2	6216.0	4210.4	3376.2	3196.6	3157.2	3172.0	3213.8	3248.3	3248.3
32.5°	9540.6	8273.2	5714.0	3688.8	3181.8	3085.9	3073.6	3088.3	3120.3	3140.0	3142.5
35°	9823.6	8300.3	5194.8	3336.9	3056.3	3004.7	3002.2	3012.0	3024.3	3036.6	3039.1
37.5°	10180.4	8420.9	4638.6	3132.6	2975.1	2945.6	2940.7	2938.2	2940.7	2940.7	2943.1
40°	10529.8	8603.0	4141.5	3012.0	2918.5	2893.9	2881.6	2864.4	2861.9	2857.0	2854.5
42.5°	10788.2	8743.3	3745.4	2925.9	2866.8	2837.3	2822.6	2795.5	2793.0	2790.6	2788.1
45°	10982.6	8861.4	3415.6	2842.2	2812.7	2785.6	2753.6	2729.0	2734.0	2738.9	2738.9
47.5°	11201.6	8964.7	3174.4	2763.5	2746.3	2719.2	2679.8	2662.6	2679.8	2697.0	2697.0
50°	11467.4	9109.9	2977.6	2684.7	2677.4	2645.4	2610.9	2603.5	2623.2	2647.8	2647.8
52.5°	11661.8	9235.4	2837.3	2606.0	2606.0	2564.2	2534.6	2532.2	2554.3	2578.9	2581.4
55°	12026.0	9528.3	2788.1	2514.9	2505.1	2473.1	2451.0	2433.7	2460.8	2483.0	2483.0
57.5°	12436.9	9917.1	2800.4	2384.5	2372.2	2362.4	2345.2	2325.5	2332.8	2357.5	2359.9
60°	11565.8	9164.1	2665.1	2254.1	2246.7	2241.8	2219.7	2185.2	2195.0	2214.7	2217.2
62.5°	8078.8	6090.5	2155.7	2091.7	2116.3	2113.8	2084.3	2044.9	2047.4	2074.5	2074.5
65°	4193.2	3295.0	1892.4	1944.0	1981.0	1966.2	1917.0	1882.5	1877.6	1912.1	1904.7
67.5°	1808.7	1798.9	1722.6	1789.0	1828.4	1796.4	1744.7	1688.1	1693.0	1705.3	1695.5
70°	1456.8	1501.1	1533.1	1604.4	1636.4	1577.4	1520.8	1488.8	1461.7	1459.3	1442.0
72.5°	1164.0	1225.5	1296.8	1370.7	1380.5	1321.5	1250.1	1220.6	1178.7	1176.3	1159.0
75°	876.0	927.7	984.3	1043.4	1043.4	986.8	940.0	925.3	876.0	861.3	846.5
77.5°	598.0	630.0	674.3	689.0	703.8	681.6	634.9	610.3	553.7	538.9	519.2
80°	376.5	398.7	425.7	435.6	450.3	423.3	386.3	359.3	319.9	307.6	297.8
82.5°	226.4	241.2	258.4	263.3	275.6	255.9	221.5	201.8	179.6	169.8	162.4
85°	115.7	123.0	132.9	135.3	132.9	113.2	100.9	91.1	76.3	73.8	68.9
87.5°	29.5	34.5	36.9	34.5	32.0	24.6	17.2	12.3	4.9	4.9	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)