

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: P641247

Luminaire Tested: GWS-SA5F-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641247
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-SA5F-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35624 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

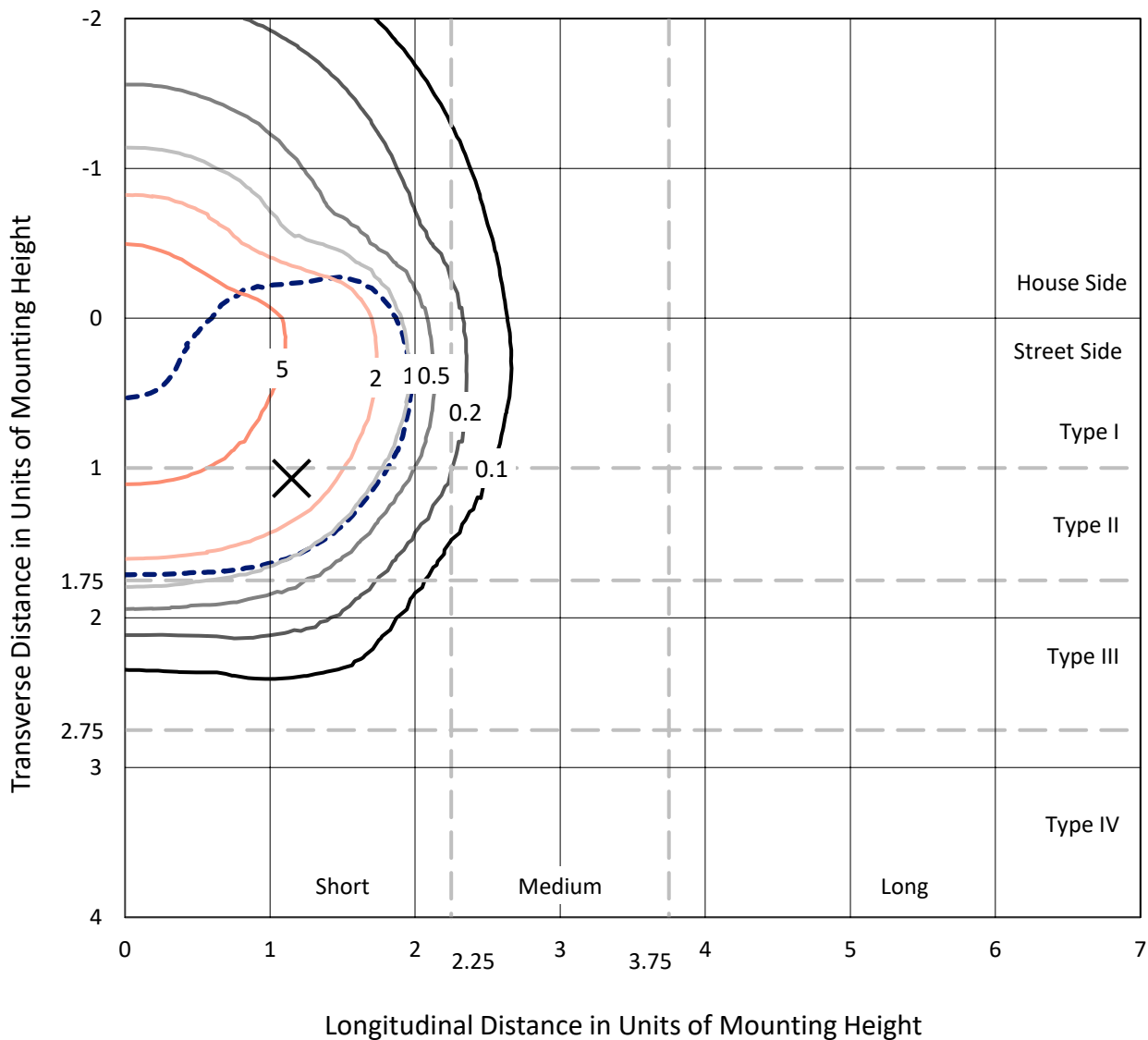
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

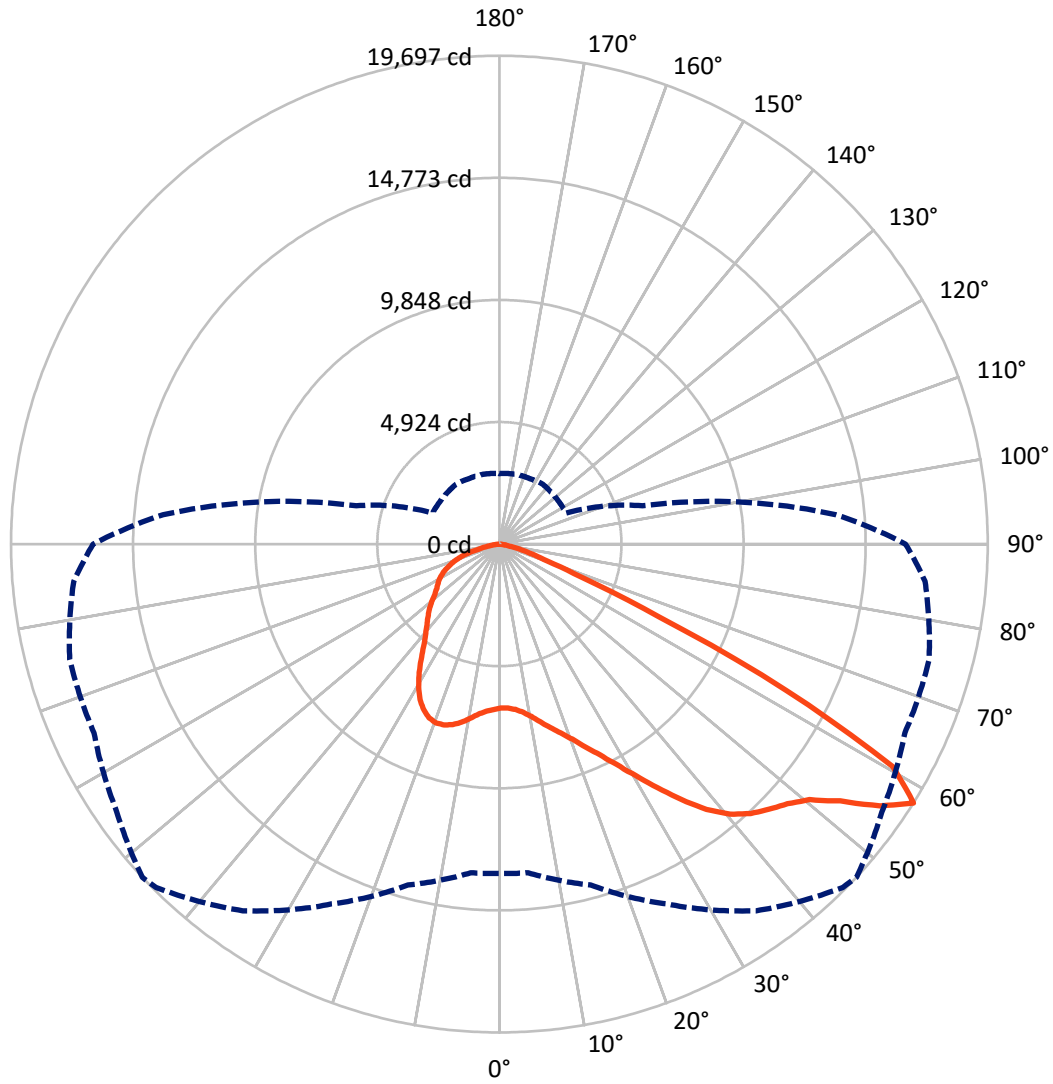
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 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	11274.9	0.0	11274.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24349.1	0.0	24349.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	35624.0	0.0	35624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.6	1.8
10°-20°	2143.2	6.0
20°-30°	3859.0	10.8
30°-40°	5828.6	16.4
40°-50°	7849.0	22.0
50°-60°	9431.6	26.5
60°-70°	4593.4	12.9
70°-80°	1131.6	3.2
80°-90°	136.0	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°	35624.0	100.0
0°-180°	35624.0	100.0

Coefficient of Utilization



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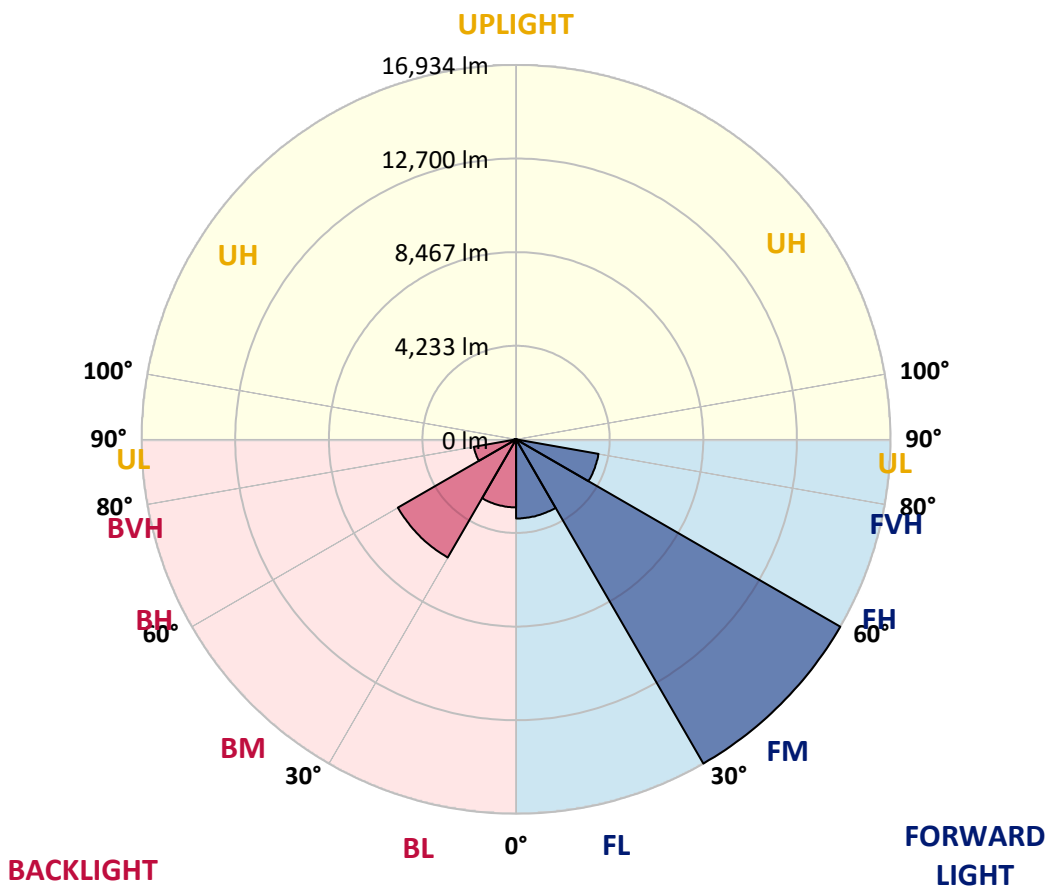
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3578.2	10.0			
FM (30°-60°)	16934.0	47.5			
FH (60°-80°)	3785.8	10.6			G2/5000
FVH (80°-90°)	51.1	0.1			G1/100
BL (0°-30°)	3075.6	8.6	B4/5000		
BM (30°-60°)	6175.2	17.3	B4/8500		
BH (60°-80°)	1939.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.9	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°	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5
2.5°	6594.6	6591.6	6591.6	6609.5	6609.5	6615.5	6624.5	6633.5	6636.4	6621.5	6588.6
5°	6666.4	6666.4	6666.4	6681.3	6681.3	6687.3	6699.3	6702.3	6699.3	6675.3	6642.4
7.5°	6780.1	6780.1	6783.1	6801.0	6816.0	6824.9	6845.9	6842.9	6833.9	6795.0	6753.1
10°	6965.6	6974.5	6983.5	7004.5	7034.4	7055.3	7070.3	7070.3	7058.3	6998.5	6944.6
12.5°	7228.9	7240.8	7249.8	7267.8	7291.7	7327.6	7360.5	7360.5	7345.6	7270.8	7190.0
15°	7537.1	7549.0	7546.0	7552.0	7596.9	7647.8	7674.7	7692.6	7698.6	7593.9	7468.2
17.5°	7890.1	7902.1	7890.1	7872.2	7878.2	7958.9	8006.8	8072.6	8111.5	7970.9	7770.4
20°	8210.3	8198.3	8198.3	8210.3	8228.2	8327.0	8398.8	8506.5	8554.4	8383.8	8072.6
22.5°	8548.4	8575.3	8563.3	8563.3	8635.2	8799.7	8886.5	9027.1	9078.0	8856.6	8437.7
25°	8985.2	9009.2	9003.2	9009.2	9092.9	9326.3	9413.1	9673.4	9724.3	9407.1	8841.6
27.5°	9464.0	9502.9	9520.8	9514.8	9649.5	9954.7	10062.4	10424.4	10517.2	10023.5	9272.5
30°	10086.3	10128.2	10143.2	10137.2	10295.8	10711.7	10834.3	11247.2	11378.9	10753.6	9820.0
32.5°	10807.4	10849.3	10894.2	10912.1	11115.6	11540.5	11717.0	12144.9	12333.4	11597.3	10481.3
35°	11522.5	11558.4	11645.2	11785.8	12064.1	12497.9	12653.5	13075.4	13257.9	12474.0	11280.2
37.5°	12312.4	12336.4	12411.2	12605.7	13006.6	13419.5	13575.1	13979.0	14000.0	13320.8	12183.8
40°	13177.1	13177.1	13162.2	13353.7	13772.6	14188.5	14323.1	14556.5	14433.8	13973.0	13063.4
42.5°	13910.2	13898.2	13910.2	14089.7	14400.9	14739.0	14855.7	14810.8	14655.2	14472.7	13859.3
45°	14571.5	14580.4	14688.1	14825.8	14987.4	15187.8	15256.6	15002.3	14861.7	14873.7	14496.6
47.5°	15020.3	15029.2	15280.6	15511.0	15609.7	15672.5	15642.6	15289.6	15217.7	15352.4	14987.4
50°	15080.1	15128.0	15561.8	16034.6	16279.9	16288.9	16205.1	15774.3	15753.3	15905.9	15250.7
52.5°	15092.1	15139.9	15681.5	16534.3	17171.6	17306.2	17210.5	16761.7	16543.2	16390.6	15573.8
55°	15047.2	15101.0	15699.5	16869.4	18090.1	18628.7	18637.7	18003.4	17306.2	17204.5	16495.4
57.5°	13284.9	13305.8	14233.3	16016.6	18054.2	19580.2	19696.9	18835.2	18039.3	17943.5	17234.4
60°	9254.5	9338.3	10346.6	12701.4	15166.9	17856.8	18233.8	17982.4	17449.8	16752.7	14786.9
62.5°	4634.7	4706.5	5717.9	7944.0	10460.3	12584.7	12988.6	13254.9	13380.6	12632.6	10068.4
65°	1995.7	2049.6	2677.9	4150.0	5921.3	6947.6	7088.2	7408.4	8192.3	7309.7	5424.6
67.5°	1334.5	1370.4	1690.5	2531.3	3488.8	3554.6	3533.7	3602.5	3773.0	3114.8	2450.5
70°	1023.3	1053.2	1268.6	1855.1	2507.4	2145.3	2031.6	1843.1	2001.7	2040.6	1986.7
72.5°	742.0	766.0	927.5	1265.7	1570.8	1370.4	1352.4	1448.2	1663.6	1723.4	1690.5
75°	478.7	490.7	589.4	694.2	810.9	879.7	915.6	1089.1	1307.5	1352.4	1313.5
77.5°	320.2	329.1	386.0	445.8	460.8	463.8	475.7	553.5	703.1	786.9	777.9
80°	167.6	167.6	188.5	188.5	215.4	257.3	269.3	320.2	389.0	430.9	433.9
82.5°	65.8	68.8	80.8	89.8	107.7	131.7	140.6	167.6	203.5	233.4	260.3
85°	26.9	29.9	32.9	38.9	47.9	59.8	62.8	71.8	95.7	119.7	134.6
87.5°	0.0	0.0	3.0	3.0	6.0	9.0	9.0	12.0	15.0	26.9	35.9
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°	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5	6606.5
2.5°	6627.5	6588.6	6627.5	6639.4	6672.3	6684.3	6663.4	6660.4	6660.4	6630.5	6621.5
5°	6672.3	6636.4	6675.3	6693.3	6741.2	6771.1	6777.1	6801.0	6816.0	6804.0	6801.0
7.5°	6783.1	6738.2	6780.1	6807.0	6869.8	6917.7	6938.6	6992.5	7031.4	7025.4	7022.4
10°	6977.5	6917.7	6965.6	7010.5	7079.3	7136.1	7139.1	7169.0	7207.9	7196.0	7190.0
12.5°	7201.9	7145.1	7199.0	7243.8	7324.6	7348.6	7309.7	7297.7	7303.7	7288.7	7276.7
15°	7477.2	7396.4	7444.3	7495.2	7540.1	7513.1	7429.3	7396.4	7393.4	7372.5	7360.5
17.5°	7752.5	7650.8	7686.7	7713.6	7692.6	7608.9	7504.1	7447.3	7420.4	7378.5	7366.5
20°	8024.8	7896.1	7890.1	7869.2	7773.4	7620.8	7480.2	7366.5	7297.7	7240.8	7219.9
22.5°	8335.9	8156.4	8066.7	7970.9	7761.5	7513.1	7300.7	7139.1	7028.4	6956.6	6932.7
25°	8671.1	8416.7	8231.2	8039.7	7641.8	7282.7	6986.5	6765.1	6633.5	6555.7	6528.7
27.5°	9003.2	8653.1	8374.8	8048.7	7402.4	6950.6	6552.7	6253.5	6121.8	6059.0	6038.0
30°	9452.0	8967.3	8545.4	7932.0	7088.2	6489.8	5993.1	5690.9	5604.2	5559.3	5541.3
32.5°	9969.6	9365.2	8772.8	7686.7	6687.3	5951.3	5427.6	5218.2	5158.4	5071.6	5068.6
35°	10651.8	9933.7	8988.2	7324.6	6181.6	5373.8	4993.8	4844.2	4736.5	4598.8	4586.9
37.5°	11447.7	10642.8	9104.9	6863.8	5592.2	4898.0	4670.6	4503.1	4329.5	4147.0	4123.1
40°	12270.5	11471.7	9113.9	6319.3	5014.7	4583.9	4392.4	4174.0	3958.5	3755.1	3728.1
42.5°	13135.3	12243.6	8955.3	5690.9	4542.0	4311.6	4117.1	3841.8	3599.5	3461.8	3446.9
45°	13907.2	12866.0	8596.3	5029.7	4191.9	4084.2	3835.9	3539.6	3411.0	3312.2	3291.3
47.5°	14514.6	13278.9	8111.5	4437.3	3907.7	3850.8	3527.7	3375.1	3276.3	3186.6	3165.6
50°	14813.8	13371.6	7480.2	3955.5	3644.4	3575.5	3354.1	3237.4	3171.6	3099.8	3081.8
52.5°	15184.8	13476.3	6935.7	3551.6	3387.0	3294.3	3210.5	3117.8	3069.9	3025.0	3010.0
55°	16037.6	13871.3	6648.4	3228.5	3141.7	3099.8	3087.8	3010.0	2995.1	2965.2	2938.2
57.5°	16384.7	13617.0	5969.2	2965.2	2947.2	2953.2	2983.1	2911.3	2896.3	2860.4	2842.5
60°	13177.1	10292.8	4042.3	2737.8	2785.6	2824.5	2854.4	2782.6	2761.7	2755.7	2731.8
62.5°	8443.7	6331.3	2821.5	2525.3	2597.1	2645.0	2663.0	2594.1	2579.2	2627.1	2630.0
65°	4395.4	3449.9	2288.9	2297.9	2357.8	2429.6	2465.5	2441.5	2435.6	2486.4	2489.4
67.5°	2244.1	2109.4	1995.7	2028.6	2076.5	2169.3	2253.0	2357.8	2393.7	2399.7	2402.6
70°	1911.9	1852.1	1795.3	1816.2	1867.1	1917.9	1998.7	2049.6	1989.7	1974.8	1968.8
72.5°	1627.7	1582.8	1555.9	1579.8	1606.7	1597.8	1573.8	1597.8	1606.7	1609.7	1612.7
75°	1265.7	1232.7	1211.8	1214.8	1214.8	1181.9	1137.0	1110.1	1080.1	1056.2	1056.2
77.5°	774.9	780.9	801.9	798.9	795.9	783.9	739.0	715.1	643.3	622.4	622.4
80°	442.8	451.8	472.7	478.7	478.7	463.8	418.9	392.0	359.1	344.1	341.1
82.5°	269.3	281.3	293.2	299.2	302.2	284.2	245.4	224.4	206.5	191.5	191.5
85°	140.6	146.6	158.6	161.6	152.6	134.6	113.7	104.7	86.8	83.8	83.8
87.5°	38.9	41.9	47.9	38.9	35.9	26.9	15.0	12.0	6.0	3.0	3.0
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)