

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: P643697

Luminaire Tested: GWS-SA6F-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48908.4 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

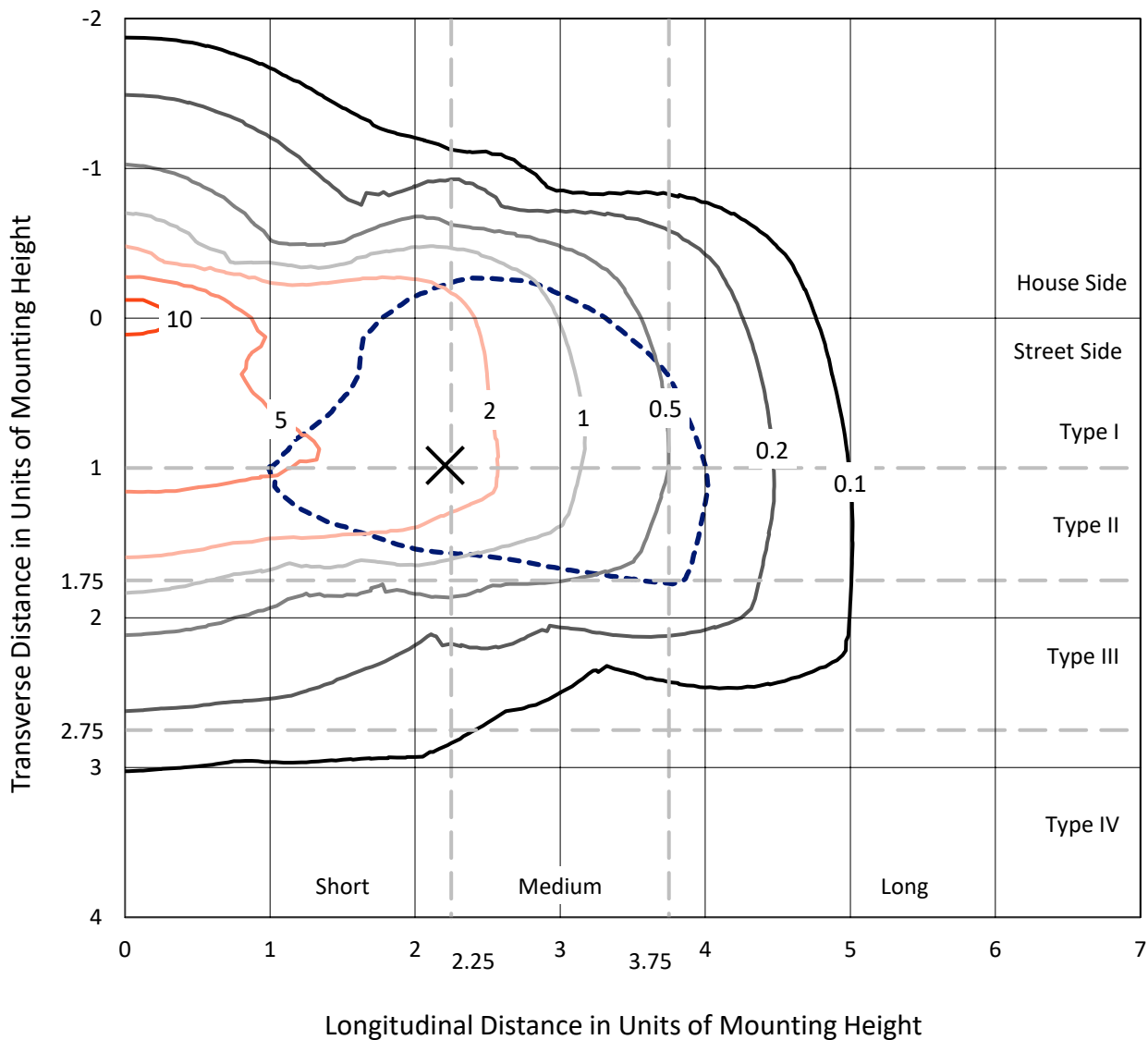
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

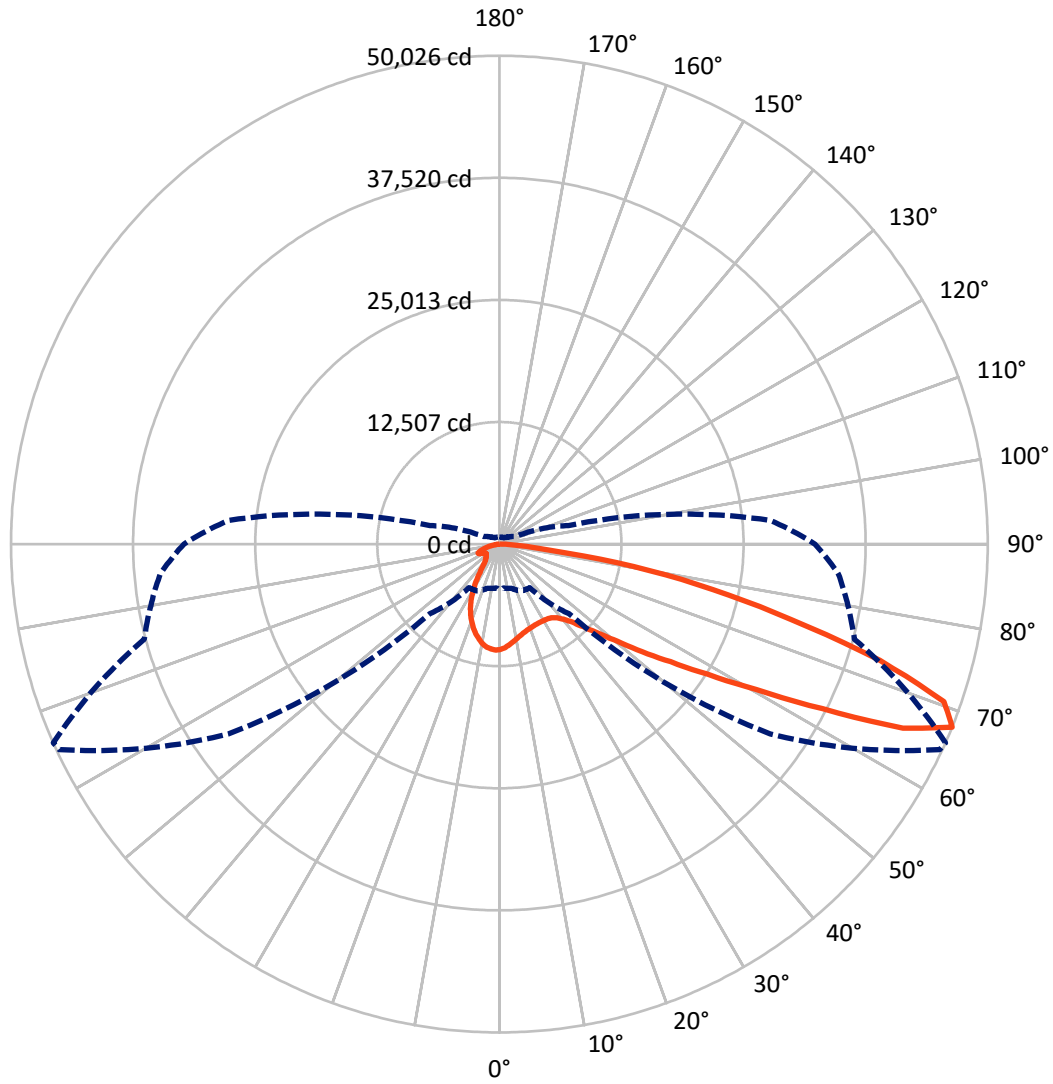
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9924.7	0.0	9924.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	38983.8	0.0	38983.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	48908.4	0.0	48908.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	948.5	1.9
10°-20°	2331.0	4.8
20°-30°	3204.0	6.6
30°-40°	4380.5	9.0
40°-50°	6637.5	13.6
50°-60°	10318.2	21.1
60°-70°	12562.2	25.7
70°-80°	7652.3	15.6
80°-90°	874.1	1.8
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°	48908.4	100.0
0°-180°	48908.4	100.0

Coefficient of Utilization



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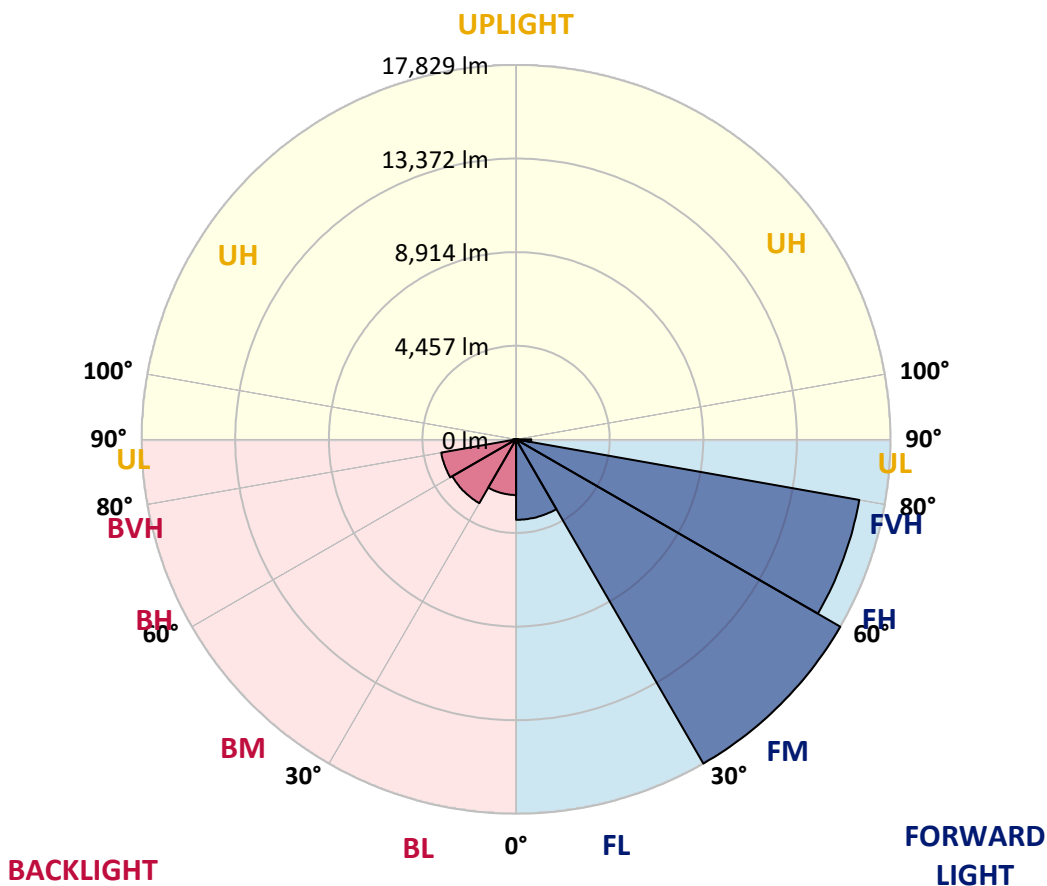
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3832.2	7.8			
FM (30°-60°)	17829.0	36.5			
FH (60°-80°)	16595.9	33.9			G5
FVH (80°-90°)	726.7	1.5			G4/750
BL (0°-30°)	2651.3	5.4	B4/5000		
BM (30°-60°)	3507.3	7.2	B3/5000		
BH (60°-80°)	3618.7	7.4	B4/5000		G4/5000
BVH (80°-90°)	147.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4
2.5°	10122.3	10158.0	10136.6	10272.2	10279.3	10450.6	10546.9	10629.0	10636.1	10743.1	10814.5
5°	9430.1	9451.5	9451.5	9580.0	9665.6	9894.0	10115.2	10350.7	10368.5	10625.4	10821.6
7.5°	8870.0	8891.4	8877.1	9048.4	9159.0	9412.3	9694.2	10054.5	10090.2	10504.1	10846.6
10°	8431.1	8424.0	8459.6	8616.6	8759.4	9062.6	9376.6	9786.9	9840.4	10364.9	10875.2
12.5°	8131.4	8138.5	8159.9	8324.1	8477.5	8777.2	9101.9	9547.9	9605.0	10204.4	10860.9
15°	7988.7	7974.4	7992.2	8142.1	8288.4	8552.4	8887.8	9348.1	9405.2	10061.7	10864.5
17.5°	7956.6	7945.9	7942.3	8049.3	8159.9	8406.1	8727.2	9194.6	9255.3	9968.9	10885.9
20°	8056.5	8042.2	8002.9	8049.3	8095.7	8302.7	8613.1	9084.0	9151.8	9908.2	10928.7
22.5°	8331.2	8306.2	8245.6	8188.5	8127.8	8252.7	8541.7	9002.0	9069.8	9869.0	10971.5
25°	8748.7	8727.2	8663.0	8534.6	8313.4	8292.0	8527.4	8966.3	9034.1	9840.4	10989.3
27.5°	9323.1	9291.0	9226.8	9041.2	8680.9	8438.2	8581.0	8962.7	9027.0	9808.3	10971.5
30°	10004.6	9983.2	9947.5	9722.7	9241.0	8748.7	8702.3	8991.3	9041.2	9790.5	10935.8
32.5°	10696.8	10675.4	10703.9	10596.9	10004.6	9262.4	8966.3	9069.8	9105.4	9786.9	10903.7
35°	11306.9	11331.9	11538.8	11556.6	10975.1	9958.2	9383.7	9251.7	9258.9	9858.3	10918.0
37.5°	11945.5	12041.9	12313.0	12545.0	12059.7	10878.7	10004.6	9594.3	9587.1	10040.3	11007.2
40°	12791.2	12834.0	13180.1	13615.4	13312.1	12141.8	10885.9	10154.4	10104.5	10411.3	11246.2
42.5°	13615.4	13718.8	14271.9	14771.4	14671.5	13565.4	11995.5	10992.9	10903.7	11067.8	11738.6
45°	14664.3	14764.2	15385.1	16027.3	16209.3	15174.6	13415.6	12184.6	12095.4	12056.2	12641.3
47.5°	15713.3	15816.8	16373.4	17301.1	17939.7	17186.9	15263.8	13758.1	13611.8	13458.4	14004.3
50°	16419.8	16541.1	17072.7	18185.9	19684.5	19698.7	17454.5	15820.4	15634.8	15392.2	15923.8
52.5°	16394.8	16473.3	16979.9	18264.4	20940.4	22585.2	20387.4	18446.4	18296.5	17768.5	18232.3
55°	15106.8	15224.5	15734.7	17340.3	21076.0	25321.9	24697.5	21543.4	21275.8	20330.3	20840.5
57.5°	12520.0	12619.9	13133.7	15113.9	19873.6	26724.1	30170.7	25489.5	25122.0	23120.4	23709.1
60°	9451.5	9330.2	9572.9	11306.9	16997.8	26759.7	35001.7	30841.5	30227.8	26103.2	26595.6
62.5°	7093.1	6971.8	7025.3	7514.1	11524.5	24597.6	37756.2	38163.0	37149.7	29471.4	29375.1
65°	5605.3	5537.5	5690.9	6026.3	6718.5	18731.8	37777.6	46080.3	45441.6	33374.8	32225.9
67.5°	4567.0	4524.2	4681.2	5302.0	5448.3	10065.2	33874.3	49776.7	50026.4	37649.2	34869.7
70°	3678.6	3614.3	3860.5	4677.6	5066.5	6090.5	24265.7	47892.8	48296.0	40196.7	34124.0
72.5°	2540.4	2544.0	2668.8	3789.2	4891.7	5259.2	13726.0	39879.2	40753.3	37888.2	29999.5
75°	1712.6	1726.9	1762.6	2501.1	4506.3	5102.2	7314.3	30192.1	30809.4	31316.0	24797.4
77.5°	1034.7	1041.8	1123.9	1512.8	3107.7	4763.2	4955.9	21885.9	22371.1	20644.2	15370.8
80°	599.4	624.4	699.3	1013.3	2098.0	3578.7	3835.6	13419.1	13968.6	9176.8	4884.5
82.5°	264.0	281.9	381.8	588.7	1223.8	3043.5	2993.5	5302.0	5223.5	2558.2	1694.8
85°	46.4	57.1	82.1	185.5	449.6	1605.6	2322.7	2340.6	2201.4	970.5	702.9
87.5°	0.0	0.0	0.0	0.0	0.0	10.7	349.7	628.0	624.4	274.7	242.6
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°	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4	10807.4
2.5°	10860.9	10764.6	10850.2	10860.9	10843.0	10828.8	10721.7	10629.0	10618.3	10518.4	10518.4
5°	10900.1	10810.9	10853.8	10771.7	10643.2	10511.2	10282.9	10125.9	10054.5	9926.1	9926.1
7.5°	10953.7	10860.9	10810.9	10607.6	10307.9	10018.8	9651.3	9344.5	9219.6	9037.7	9030.5
10°	11003.6	10885.9	10714.6	10318.6	9840.4	9380.2	8845.0	8409.7	8113.6	7895.9	7895.9
12.5°	11000.0	10846.6	10507.7	9922.5	9262.4	8595.2	7881.6	7225.1	6832.7	6493.7	6472.3
15°	10992.9	10782.4	10243.6	9462.2	8588.1	7664.0	6693.5	5837.2	5255.6	4923.8	4895.2
17.5°	10985.8	10700.3	9947.5	8937.8	7767.5	6508.0	5227.1	4299.4	3814.2	3610.8	3617.9
20°	10985.8	10607.6	9629.9	8334.8	6822.0	5123.6	3835.6	3161.2	3039.9	3050.6	3061.3
22.5°	10953.7	10493.4	9276.7	7678.3	5769.4	3767.8	2829.4	2601.0	2665.3	2765.2	2779.4
25°	10878.7	10304.3	8866.4	6950.4	4517.0	2743.8	2308.5	2265.7	2383.4	2508.3	2544.0
27.5°	10761.0	10086.6	8406.1	6097.7	3325.3	2205.0	2030.2	2026.6	2119.4	2212.1	2244.3
30°	10636.1	9844.0	7920.9	5148.6	2408.4	1919.6	1851.8	1851.8	1898.2	1955.2	1948.1
32.5°	10489.8	9597.8	7400.0	4160.2	1962.4	1759.0	1737.6	1726.9	1734.0	1755.4	1755.4
35°	10364.9	9380.2	6864.8	3114.8	1759.0	1669.8	1648.4	1623.4	1612.7	1598.4	1605.6
37.5°	10318.6	9208.9	6311.7	2347.7	1659.1	1605.6	1569.9	1534.2	1509.2	1502.1	1498.5
40°	10393.5	9137.6	5758.7	1933.8	1587.7	1537.8	1498.5	1452.2	1430.8	1430.8	1430.8
42.5°	10686.1	9191.1	5195.0	1748.3	1537.8	1480.7	1423.6	1380.8	1373.7	1380.8	1384.4
45°	11221.3	9398.0	4609.8	1655.5	1495.0	1423.6	1355.8	1323.7	1323.7	1330.9	1330.9
47.5°	12177.5	9940.4	4031.8	1598.4	1452.2	1377.2	1305.9	1273.8	1270.2	1277.3	1277.3
50°	13833.0	10918.0	3510.9	1559.2	1420.1	1341.6	1270.2	1227.4	1216.7	1213.1	1213.1
52.5°	15920.3	12612.8	3179.1	1530.7	1380.8	1302.3	1230.9	1173.9	1152.5	1141.7	1141.7
55°	18442.8	14871.3	3179.1	1509.2	1330.9	1255.9	1173.9	1116.8	1084.7	1070.4	1070.4
57.5°	21300.8	17500.9	3728.5	1491.4	1291.6	1202.4	1113.2	1056.1	1020.4	999.0	999.0
60°	24208.6	20280.3	5087.9	1466.4	1255.9	1134.6	1045.4	991.9	945.5	920.5	917.0
62.5°	27223.6	23341.6	6879.0	1480.7	1230.9	1070.4	974.1	913.4	874.2	849.2	845.6
65°	29985.2	26256.7	8445.4	1591.3	1234.5	1013.3	892.0	838.5	806.4	774.2	770.7
67.5°	32329.3	27865.8	7346.4	1816.1	1309.4	945.5	809.9	756.4	727.9	706.5	702.9
70°	30688.1	25411.1	4167.4	1955.2	1412.9	874.2	717.2	681.5	652.9	638.7	635.1
72.5°	26242.4	21514.8	2786.6	1726.9	1288.0	781.4	631.5	603.0	581.6	563.7	560.2
75°	21257.9	17062.0	2130.1	1416.5	1002.6	635.1	542.3	520.9	499.5	481.7	478.1
77.5°	12577.1	9858.3	1569.9	1120.3	706.5	495.9	449.6	431.7	410.3	396.0	392.5
80°	4014.0	3425.2	995.5	770.7	467.4	381.8	346.1	331.8	310.4	292.6	289.0
82.5°	1530.7	1323.7	528.1	392.5	310.4	260.5	231.9	217.6	203.4	185.5	182.0
85°	677.9	635.1	292.6	210.5	167.7	128.4	114.2	107.0	89.2	74.9	71.4
87.5°	239.1	239.1	124.9	60.7	35.7	17.8	10.7	3.6	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)