

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: P643140

Luminaire Tested: GWS-SA6E-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44959.7 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

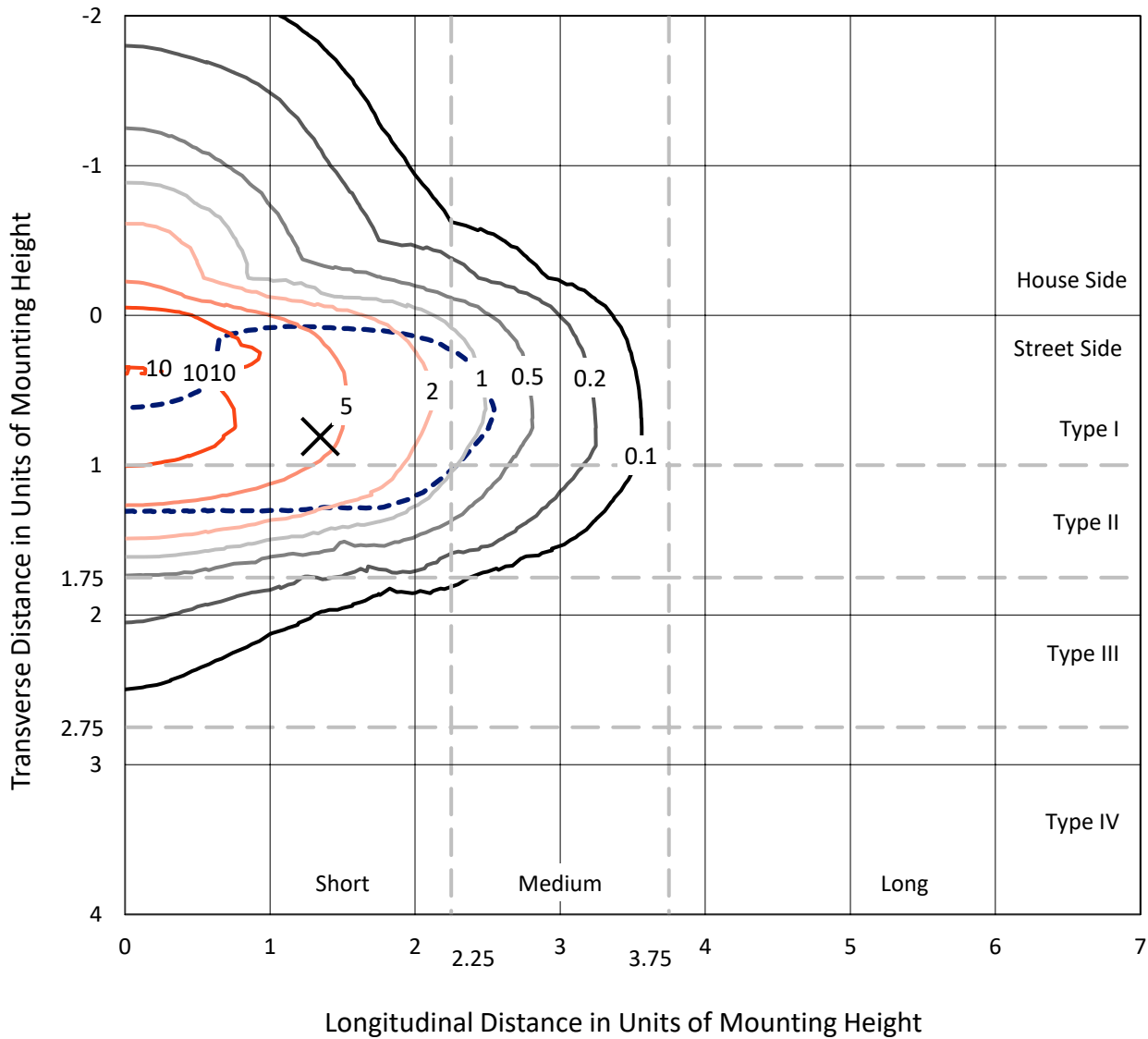
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

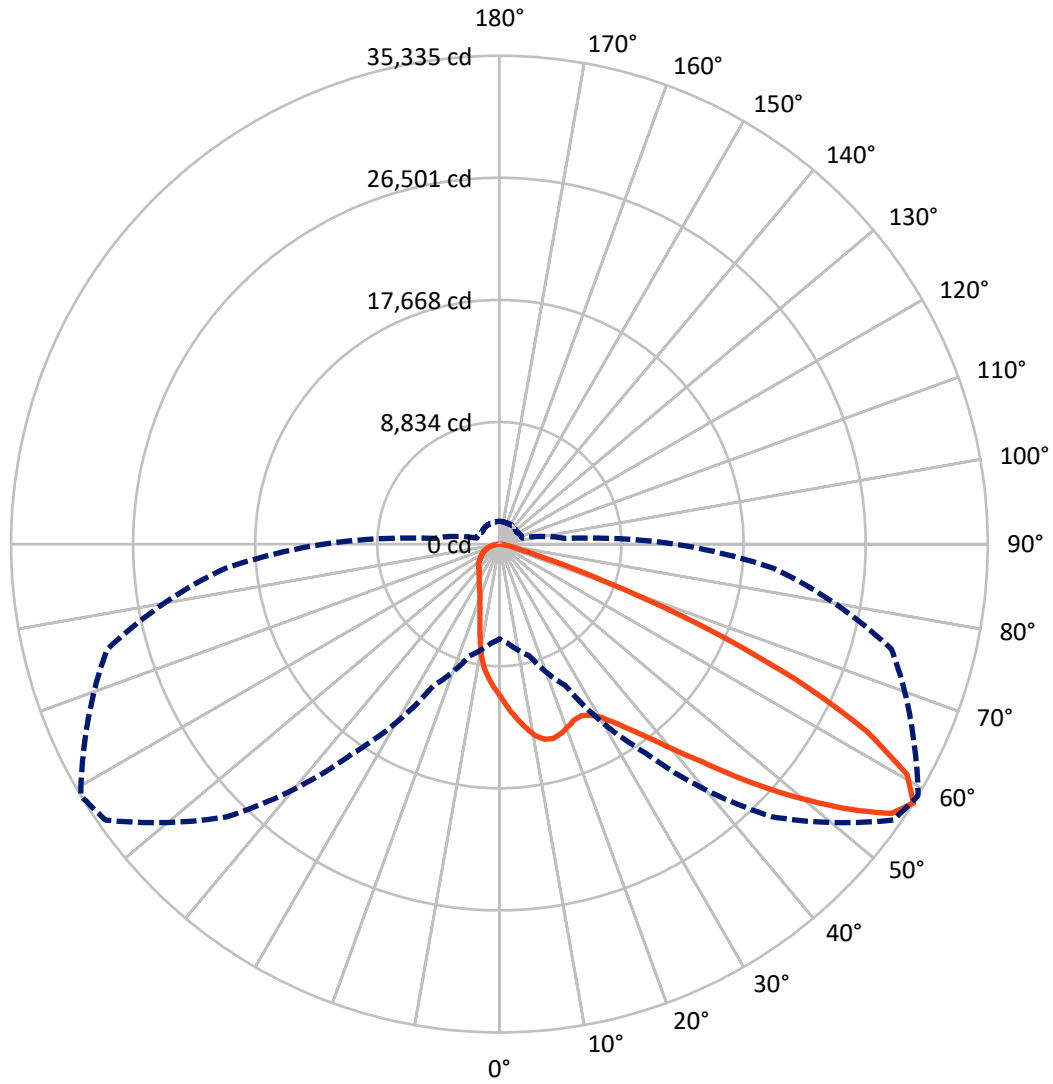
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6977.5	0.0	6977.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	37982.2	0.0	37982.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	44959.7	0.0	44959.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1024.8	2.3
10°-20°	2596.8	5.8
20°-30°	4209.4	9.4
30°-40°	6771.4	15.1
40°-50°	10515.3	23.4
50°-60°	11326.4	25.2
60°-70°	6573.4	14.6
70°-80°	1716.0	3.8
80°-90°	226.1	0.5
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°	44959.7	100.0
0°-180°	44959.7	100.0

Coefficient of Utilization



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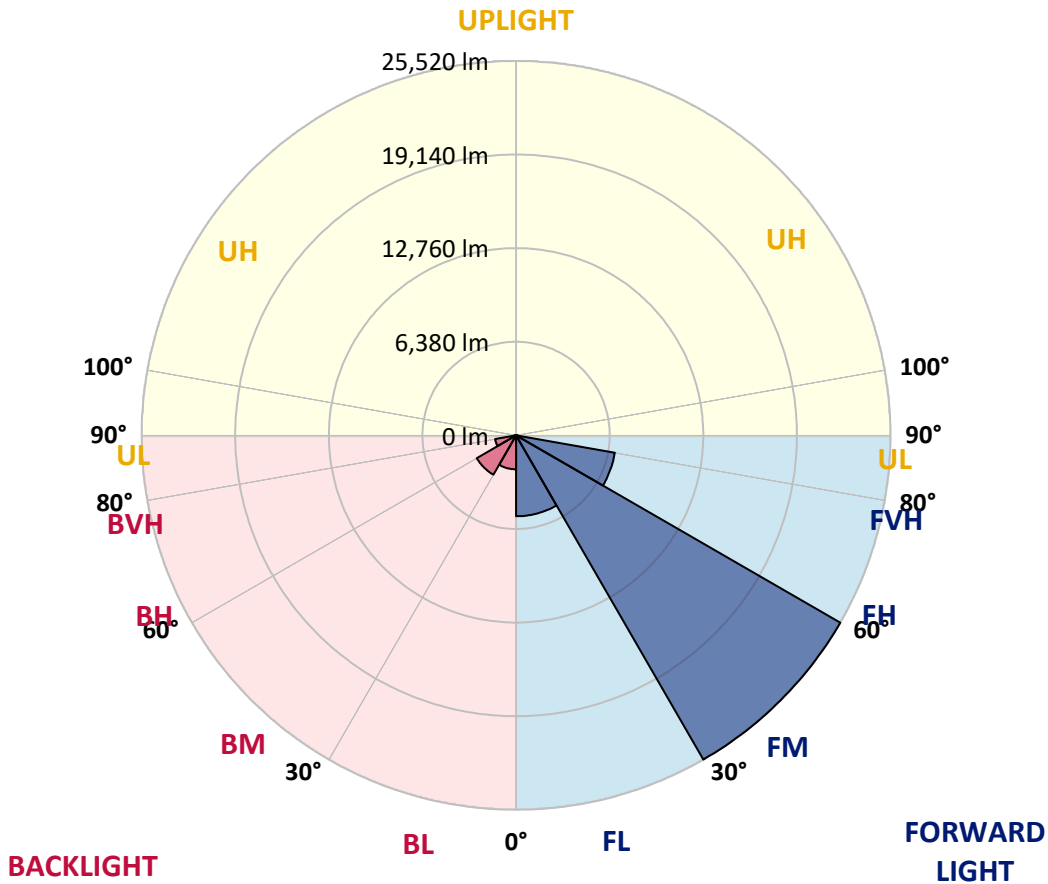
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5516.1	12.3			
FM (30°-60°)	25519.6	56.8			
FH (60°-80°)	6838.2	15.2			G3/7500
FVH (80°-90°)	108.2	0.2			G2/225
BL (0°-30°)	2314.9	5.1	B3/2500		
BM (30°-60°)	3093.5	6.9	B3/5000		
BH (60°-80°)	1451.3	3.2	B3/2500		G3/2500
BVH (80°-90°)	117.8	0.3			G2/225
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°	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7	11036.7
2.5°	12518.0	12413.5	12486.3	12356.6	12302.7	12160.3	11976.7	11853.3	11663.4	11416.5	11201.3
5°	13761.9	13689.1	13704.9	13565.6	13442.2	13204.8	12828.2	12619.3	12296.4	11799.5	11337.4
7.5°	13723.9	13809.3	13856.8	13977.1	14011.9	13989.7	13651.1	13359.9	13005.4	12258.4	11562.1
10°	12302.7	12464.2	12609.8	13021.2	13521.3	14154.3	14233.5	14059.4	13701.7	12844.0	11831.1
12.5°	10755.0	10878.5	11008.2	11502.0	12267.9	13534.0	14391.7	14499.3	14356.9	13423.2	12135.0
15°	9995.4	10052.4	10175.8	10501.8	11112.7	12518.0	14116.4	14588.0	14844.3	14037.2	12476.8
17.5°	9963.7	9989.1	10049.2	10223.3	10647.4	11733.0	13619.4	14410.7	15227.3	14686.1	12875.6
20°	10618.9	10552.4	10514.5	10511.3	10720.2	11470.3	13138.3	14125.8	15407.7	15350.7	13302.9
22.5°	11527.3	11549.5	11467.2	11264.6	11239.3	11657.1	12897.8	13837.8	15461.5	15939.4	13698.6
25°	12815.5	12926.3	12682.6	12296.4	12106.5	12198.3	13046.5	13749.2	15455.2	16430.0	13945.4
27.5°	14318.9	14404.4	14157.5	13651.1	13258.6	13037.1	13489.7	14011.9	15509.0	16854.2	14094.2
30°	16031.2	16059.7	15721.1	15189.3	14616.4	14141.7	14227.1	14553.1	15784.4	17411.2	14268.3
32.5°	18123.4	18243.6	17730.9	16889.0	16088.2	15480.5	15217.8	15426.7	16379.4	18069.6	14537.3
35°	20778.9	20820.0	20168.0	18962.1	17829.0	16987.1	16436.4	16547.1	17284.6	18990.6	14942.4
37.5°	23282.5	23323.6	22630.5	21510.0	19889.5	18737.4	17939.8	17889.2	18443.0	20291.5	15603.9
40°	24871.4	24988.5	24678.3	23975.6	22427.9	20873.8	19791.4	19617.3	19962.3	21883.5	16525.0
42.5°	25725.9	25776.6	25770.3	25862.0	24941.0	23396.4	21880.3	21532.2	21763.2	23602.2	17455.5
45°	25732.3	25858.9	26197.5	27080.6	27121.8	26159.6	24520.0	23975.6	23763.6	25333.5	18427.2
47.5°	24580.2	24716.3	25646.8	27384.5	28666.3	28884.7	27682.0	26590.0	25697.5	26824.2	19224.8
50°	21092.2	21434.1	23206.5	26279.8	28970.2	31068.6	30698.3	29217.0	27416.1	27976.3	19724.9
52.5°	18063.2	18050.6	19142.5	23159.0	27701.0	32030.8	33616.5	31920.0	29115.8	28707.5	19851.5
55°	13227.0	13299.8	14417.0	17711.9	24314.3	31100.3	35221.2	34407.8	31065.5	29096.8	19800.9
57.5°	6858.8	7219.6	8365.4	11302.6	18474.7	27897.2	34794.0	35335.2	33046.8	29372.1	19867.3
60°	3465.8	3396.2	3807.6	5396.5	10704.4	21788.6	32160.6	33885.6	33404.5	29587.4	19908.5
62.5°	2313.7	2294.7	2180.8	2500.4	4374.2	12904.1	27416.1	29834.2	30919.9	29080.9	19383.1
65°	2003.5	1965.5	1756.6	1744.0	2123.8	5352.2	20095.2	23453.4	25555.0	26830.6	18126.5
67.5°	1804.1	1747.1	1535.1	1430.6	1525.6	2351.7	11324.7	15730.6	18870.3	22690.6	15372.9
70°	1611.0	1582.6	1370.5	1218.6	1209.1	1433.8	4171.6	8118.5	11546.3	15480.5	11239.3
72.5°	1443.3	1392.6	1212.2	1066.6	993.8	1016.0	1810.4	3127.1	5975.7	9656.7	6722.7
75°	1250.2	1212.2	1054.0	908.4	819.8	743.8	1104.6	1446.5	2725.2	4589.4	3174.6
77.5°	965.4	940.0	832.4	721.6	671.0	553.9	671.0	911.5	1259.7	1933.9	1652.2
80°	560.2	576.0	620.4	563.4	493.8	395.6	436.8	525.4	756.5	1047.6	936.9
82.5°	281.7	300.7	402.0	326.0	294.4	231.1	259.5	310.2	395.6	579.2	367.2
85°	22.2	22.2	72.8	82.3	101.3	82.3	104.4	126.6	180.4	231.1	123.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	15.8	28.5	53.8	34.8
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°	11055.7	10894.3	10701.2	10543.0	10299.2	10169.5	10004.9	9802.3	9720.0	9682.0	9659.9
5°	11077.9	10793.0	10381.5	10001.7	9580.8	9248.4	8878.1	8492.0	8270.4	8216.6	8178.6
7.5°	11160.1	10761.3	10106.2	9479.5	8697.7	7972.9	7267.1	6567.6	6209.9	6073.8	6061.2
10°	11274.1	10748.7	9827.6	8786.3	7466.5	6320.7	5494.6	4947.1	4716.0	4640.0	4614.7
12.5°	11416.5	10739.2	9460.5	7824.1	6045.3	4962.9	4491.3	4402.7	4434.3	4428.0	4428.0
15°	11596.9	10751.8	9017.4	6735.3	4890.1	4307.7	4317.2	4421.6	4519.8	4535.6	4535.6
17.5°	11793.2	10739.2	8374.9	5643.4	4196.9	4152.6	4298.2	4443.8	4532.4	4545.1	4545.1
20°	12005.2	10679.1	7564.6	4614.7	3893.1	4054.5	4212.7	4326.7	4380.5	4393.2	4393.2
22.5°	12131.8	10508.1	6684.7	3905.7	3700.0	3899.4	4003.9	4121.0	4127.3	4026.0	4022.8
25°	12112.8	10188.5	5681.4	3450.0	3494.3	3668.4	3801.3	3719.0	3617.7	3560.7	3551.2
27.5°	11992.6	9707.4	4659.0	3105.0	3250.6	3446.8	3405.6	3336.0	3310.7	3247.4	3241.1
30°	11840.6	9115.5	3741.1	2835.9	2997.4	3177.8	3114.5	3108.1	3082.8	3013.2	3013.2
32.5°	11695.0	8504.6	3048.0	2636.5	2835.9	2848.6	2937.2	2943.5	2930.9	2810.6	2797.9
35°	11653.9	7893.8	2579.6	2478.3	2677.7	2671.3	2797.9	2794.8	2576.4	2408.6	2405.5
37.5°	11777.3	7273.4	2301.0	2348.5	2459.3	2541.6	2642.9	2459.3	2386.5	2285.2	2278.9
40°	12040.0	6700.5	2158.6	2272.5	2320.0	2440.3	2282.0	2294.7	2275.7	2199.7	2190.2
42.5°	12388.2	6213.1	2079.5	2247.2	2240.9	2272.5	2098.5	2149.1	2177.6	2120.6	2111.1
45°	12723.7	5789.0	2038.3	2152.3	2183.9	2000.3	1965.5	2013.0	2057.3	2035.2	2025.7
47.5°	12970.6	5421.8	2016.2	2022.5	2111.1	1908.6	1851.6	1873.7	1927.5	1937.0	1933.9
50°	13046.5	5108.5	1990.8	1914.9	1895.9	1816.8	1772.5	1766.1	1829.4	1873.7	1880.1
52.5°	12901.0	4829.9	1924.4	1819.9	1728.1	1740.8	1725.0	1693.3	1756.6	1816.8	1823.1
55°	12685.7	4671.7	1819.9	1728.1	1620.5	1671.2	1677.5	1649.0	1690.2	1731.3	1731.3
57.5°	12701.6	4763.5	1718.6	1642.7	1525.6	1592.0	1626.9	1614.2	1614.2	1645.9	1649.0
60°	12806.0	4896.4	1652.2	1535.1	1430.6	1500.3	1579.4	1566.7	1538.2	1579.4	1579.4
62.5°	12505.3	4719.2	1607.9	1430.6	1329.3	1411.6	1506.6	1500.3	1468.6	1535.1	1541.4
65°	11619.1	4244.4	1557.2	1300.9	1228.1	1323.0	1405.3	1427.5	1399.0	1487.6	1503.4
67.5°	9739.0	3570.2	1459.1	1177.4	1126.8	1215.4	1294.5	1326.2	1304.0	1408.5	1421.1
70°	7260.7	2889.7	1304.0	1041.3	1003.3	1082.5	1155.3	1167.9	1171.1	1294.5	1307.2
72.5°	4630.5	2247.2	1098.3	889.4	860.9	921.0	974.9	1025.5	1047.6	1164.8	1161.6
75°	2582.7	1671.2	883.1	753.3	702.7	750.1	813.4	873.6	936.9	1107.8	1126.8
77.5°	1487.6	1174.3	699.5	604.5	544.4	595.0	648.8	734.3	924.2	1073.0	1054.0
80°	838.8	762.8	528.6	443.1	405.1	443.1	484.3	645.7	728.0	791.3	800.8
82.5°	392.5	427.3	360.8	272.2	272.2	297.5	335.5	500.1	550.7	449.4	392.5
85°	142.4	193.1	177.2	139.3	123.4	120.3	208.9	284.9	177.2	158.3	136.1
87.5°	38.0	53.8	50.6	34.8	19.0	15.8	0.0	0.0	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)