

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: P643174

Luminaire Tested: GWS-SA6E-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44181.1 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

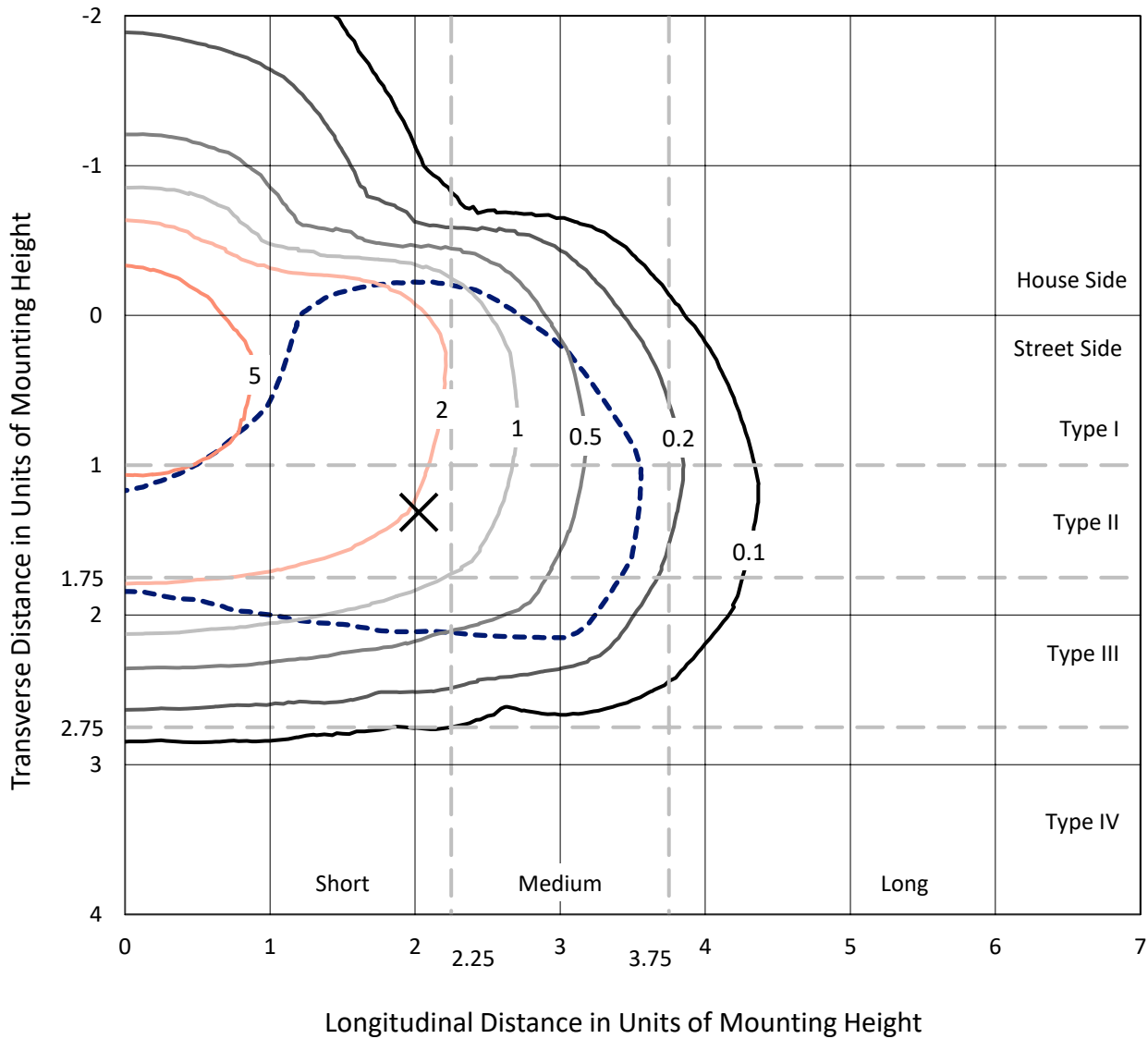
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

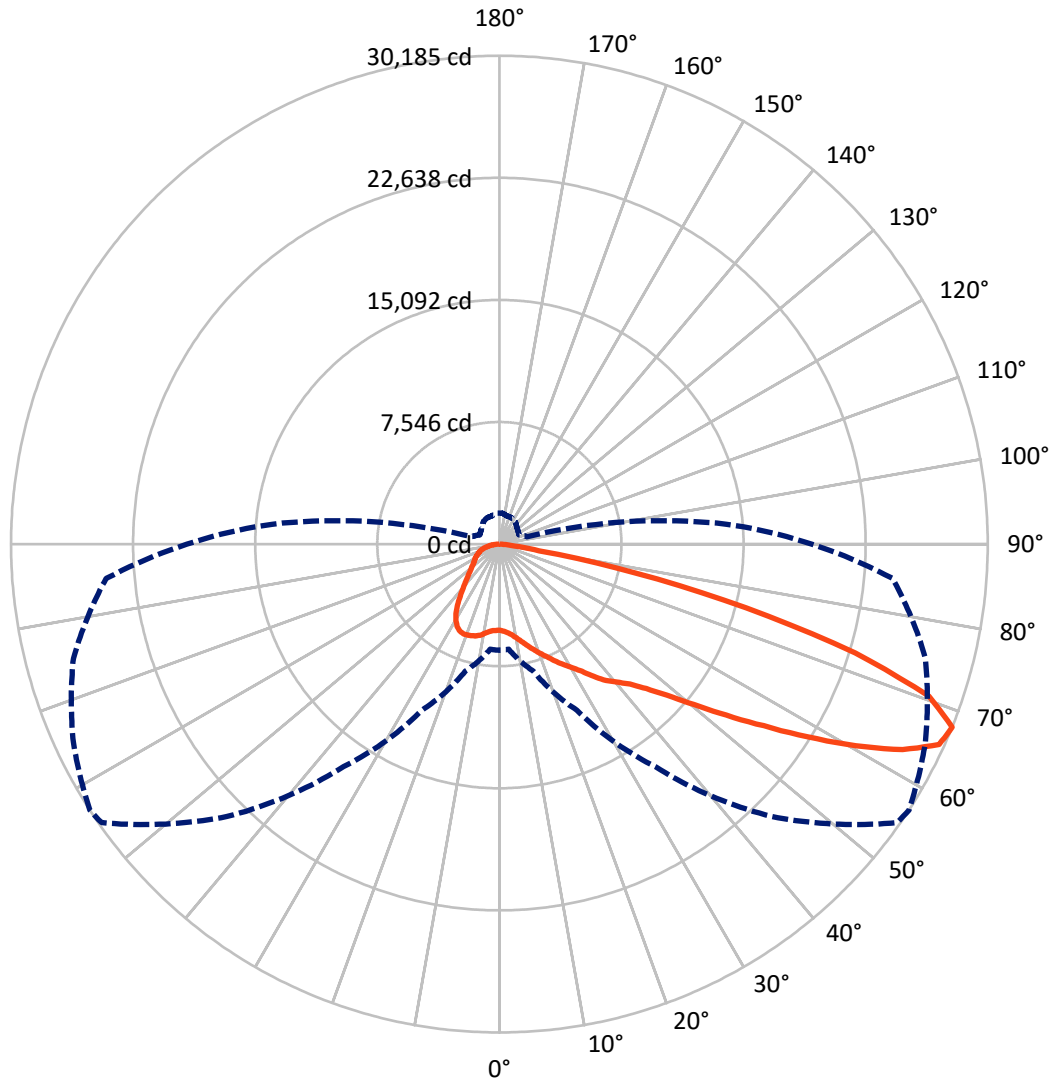
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9713.8	0.0	9713.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	34467.4	0.0	34467.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	44181.1	0.0	44181.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.0	1.2
10°-20°	1747.9	4.0
20°-30°	3116.2	7.1
30°-40°	4530.5	10.3
40°-50°	6557.2	14.8
50°-60°	10261.7	23.2
60°-70°	11971.0	27.1
70°-80°	4997.2	11.3
80°-90°	471.6	1.1
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°	44181.1	100.0
0°-180°	44181.1	100.0

Coefficient of Utilization



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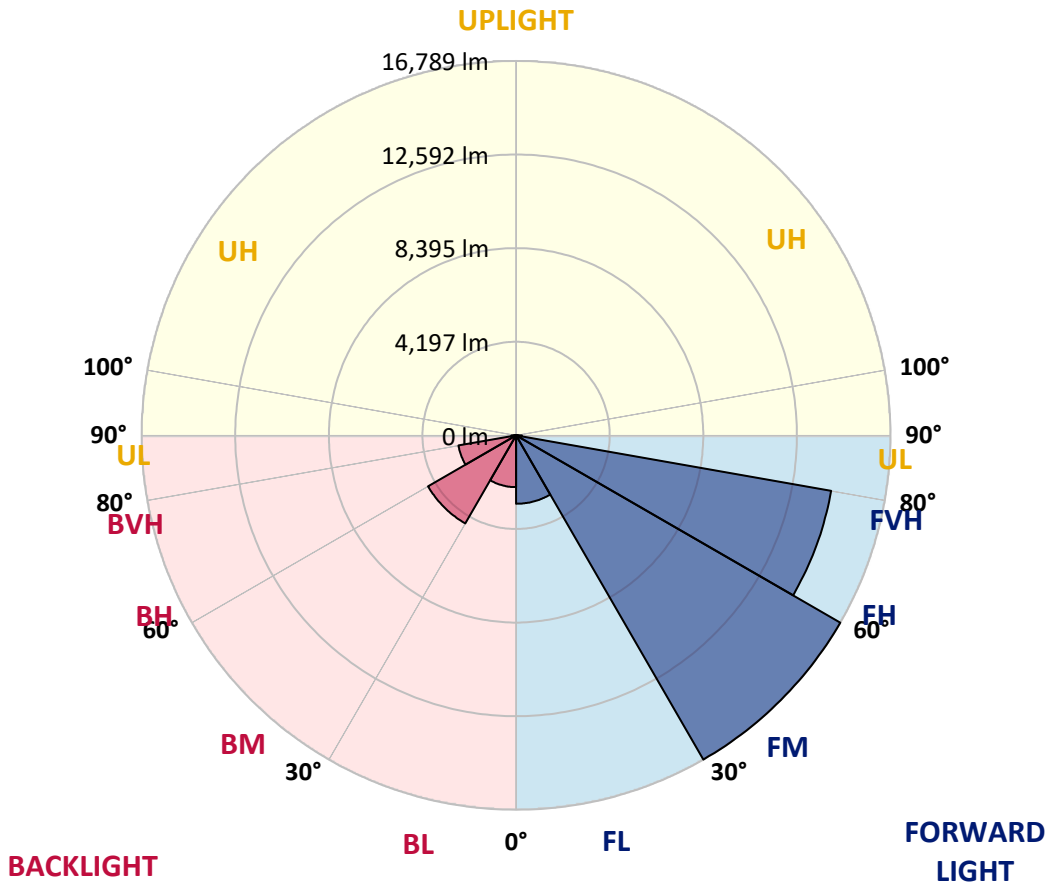
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3068.8	6.9			
FM (30°-60°)	16789.5	38.0			
FH (60°-80°)	14346.4	32.5			G5
FVH (80°-90°)	262.7	0.6			G3/500
BL (0°-30°)	2323.2	5.3	B3/2500		
BM (30°-60°)	4559.9	10.3	B3/5000		
BH (60°-80°)	2621.8	5.9	B4/5000		G4/5000
BVH (80°-90°)	208.8	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5
2.5°	5399.5	5393.2	5390.0	5409.0	5402.6	5399.5	5399.5	5396.3	5390.0	5364.7	5329.9
5°	5548.2	5535.6	5522.9	5538.7	5526.1	5513.4	5510.3	5503.9	5481.8	5443.8	5390.0
7.5°	5703.3	5690.7	5693.8	5703.3	5693.8	5687.5	5678.0	5671.7	5636.9	5576.7	5503.9
10°	5921.7	5921.7	5928.0	5937.5	5940.7	5931.2	5912.2	5902.7	5861.6	5785.6	5684.3
12.5°	6238.2	6231.9	6231.9	6225.5	6235.0	6225.5	6206.6	6190.7	6140.1	6042.0	5896.4
15°	6656.0	6630.7	6608.5	6567.4	6554.7	6519.9	6526.2	6516.7	6469.2	6336.3	6152.8
17.5°	7102.2	7099.1	7064.3	6982.0	6899.7	6842.7	6855.4	6852.2	6826.9	6646.5	6412.3
20°	7494.7	7510.5	7478.9	7415.6	7304.8	7197.2	7190.9	7206.7	7175.0	6994.6	6668.6
22.5°	7934.6	7922.0	7890.3	7808.0	7725.8	7611.8	7573.8	7561.2	7548.5	7342.8	6931.3
25°	8352.4	8390.4	8349.3	8273.3	8146.7	8023.3	7991.6	8004.3	7969.5	7697.3	7213.0
27.5°	8881.0	8896.8	8871.5	8767.0	8659.4	8485.4	8425.2	8425.2	8412.6	8029.6	7434.6
30°	9444.3	9488.7	9444.3	9358.9	9248.1	8998.1	8868.3	8855.7	8817.7	8371.4	7694.1
32.5°	10010.9	10042.5	10010.9	9928.6	9802.0	9583.6	9396.9	9368.4	9317.7	8744.9	7960.0
35°	10514.1	10542.6	10536.3	10555.3	10450.8	10175.5	10061.5	10048.9	9915.9	9232.3	8320.8
37.5°	11064.8	11099.6	11052.2	11090.1	11049.0	10789.5	10754.7	10691.4	10501.5	9691.2	8700.6
40°	11691.5	11723.1	11647.2	11663.0	11615.5	11469.9	11292.7	11207.2	10925.6	10188.1	9298.8
42.5°	12362.5	12435.3	12470.1	12441.6	12330.8	12248.5	11938.4	11830.8	11596.5	11083.8	10283.1
45°	13334.1	13441.7	13492.4	13419.6	13372.1	13255.0	12875.2	12745.4	12622.0	12346.6	11656.7
47.5°	14381.7	14479.9	14641.3	14672.9	14710.9	14622.3	14087.4	13960.8	13982.9	13951.3	13346.8
50°	15217.3	15299.6	15663.6	16052.9	16375.7	16401.0	15717.4	15581.3	15701.5	15802.8	15381.9
52.5°	15825.0	15897.8	16378.8	17182.8	17913.9	18455.1	17717.6	17562.6	17660.7	17888.6	17695.5
55°	16318.7	16420.0	16923.2	18157.6	19635.6	20490.2	20018.6	19822.4	19781.2	20062.9	20173.7
57.5°	16578.2	16609.9	17315.7	18920.3	20898.5	22487.3	22693.0	22471.5	22079.0	22234.1	22810.1
60°	15986.4	16040.2	17005.5	19116.6	21895.4	24468.6	25500.4	25316.8	24481.2	24566.7	25202.9
62.5°	14350.1	14426.0	15587.6	18182.9	21977.7	25791.5	28092.5	27975.4	26855.0	26392.9	26582.8
65°	11511.1	11536.4	12739.1	15872.5	20341.4	25956.1	29899.7	29871.2	28513.4	27431.0	26617.6
67.5°	6564.2	6519.9	8127.7	11321.2	16787.1	23816.6	30016.8	30184.6	29051.5	27260.1	24402.1
70°	2845.3	2851.7	3592.3	5586.2	10865.4	19249.5	27880.4	28168.5	27494.3	24414.8	19414.1
72.5°	1316.6	1335.6	1655.3	2418.1	4639.9	11941.5	22734.2	22993.7	22414.5	19540.7	14125.4
75°	930.5	946.3	1104.6	1386.3	2133.2	4652.5	15207.8	15752.2	16033.9	14615.9	9308.3
77.5°	705.8	727.9	807.1	962.2	1316.6	1649.0	7276.3	8574.0	10213.4	9093.0	4795.0
80°	449.4	449.4	534.9	642.5	803.9	857.7	2101.6	2490.9	4997.5	3747.4	1883.2
82.5°	303.8	313.3	364.0	408.3	462.1	487.4	902.0	962.2	1443.2	1275.5	775.4
85°	161.4	167.7	189.9	186.7	221.5	193.1	379.8	376.6	528.6	579.2	294.3
87.5°	0.0	0.0	3.2	3.2	6.3	9.5	41.1	44.3	110.8	177.2	98.1
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°	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5
2.5°	5348.8	5310.9	5329.9	5323.5	5342.5	5342.5	5307.7	5298.2	5301.4	5263.4	5250.7
5°	5396.3	5352.0	5361.5	5348.8	5367.8	5383.7	5367.8	5367.8	5386.8	5358.3	5342.5
7.5°	5503.9	5453.3	5453.3	5437.5	5459.6	5472.3	5459.6	5478.6	5513.4	5484.9	5469.1
10°	5674.8	5614.7	5617.9	5598.9	5608.4	5602.0	5551.4	5535.6	5545.1	5519.8	5507.1
12.5°	5896.4	5814.1	5814.1	5776.1	5754.0	5687.5	5583.1	5545.1	5551.4	5529.2	5519.8
15°	6108.4	6032.5	6016.7	5940.7	5839.4	5716.0	5621.0	5595.7	5602.0	5579.9	5564.1
17.5°	6358.5	6260.4	6203.4	6064.1	5877.4	5750.8	5655.8	5595.7	5545.1	5494.4	5481.8
20°	6589.5	6466.1	6361.6	6146.4	5918.5	5744.5	5567.2	5418.5	5295.0	5228.6	5212.7
22.5°	6826.9	6668.6	6485.1	6203.4	5915.4	5630.5	5304.5	5079.8	4896.2	4798.1	4817.1
25°	7051.6	6852.2	6602.2	6257.2	5814.1	5377.3	4934.2	4598.7	4389.8	4313.9	4291.7
27.5°	7238.3	6991.5	6709.8	6231.9	5605.2	5013.4	4427.8	4054.4	3851.8	3766.3	3744.2
30°	7447.2	7168.7	6864.9	6114.8	5276.0	4503.8	3855.0	3551.1	3405.5	3323.2	3326.4
32.5°	7687.8	7396.6	7083.3	5890.1	4855.1	3953.1	3383.4	3174.5	3057.4	2975.1	2962.4
35°	8010.6	7722.6	7228.8	5551.4	4320.2	3446.7	3060.6	2889.6	2744.1	2636.4	2614.3
37.5°	8409.4	8213.2	7244.7	5098.8	3747.4	3098.5	2829.5	2645.9	2468.7	2326.3	2310.4
40°	9093.0	8868.3	7114.9	4532.3	3259.9	2873.8	2636.4	2424.4	2218.7	2060.4	2038.3
42.5°	10067.8	9605.8	6836.4	3892.9	2892.8	2696.6	2452.9	2183.8	1975.0	1864.2	1848.4
45°	11308.5	10428.7	6418.6	3291.6	2620.6	2522.5	2259.8	1978.1	1867.3	1788.2	1772.4
47.5°	12827.7	11387.7	5937.5	2823.2	2408.6	2364.3	2063.6	1908.5	1810.4	1743.9	1728.1
50°	14644.4	12609.3	5541.9	2456.0	2218.7	2180.7	2000.3	1867.3	1788.2	1734.4	1721.8
52.5°	16717.5	13967.1	5348.8	2193.3	2054.1	2016.1	1978.1	1857.9	1791.4	1750.2	1734.4
55°	18869.7	15397.7	5168.4	1990.8	1914.8	1937.0	1981.3	1889.5	1838.9	1785.1	1769.2
57.5°	20949.1	16739.7	4725.3	1832.5	1813.5	1899.0	1997.1	1921.2	1861.0	1807.2	1788.2
60°	22382.8	17473.9	3975.2	1705.9	1737.6	1851.5	1956.0	1873.7	1797.7	1775.6	1766.1
62.5°	22769.0	17385.3	3085.9	1576.2	1645.8	1747.1	1848.4	1794.6	1715.4	1750.2	1753.4
65°	21867.0	16435.8	2316.8	1449.6	1525.5	1611.0	1737.6	1715.4	1686.9	1781.9	1785.1
67.5°	19312.8	14103.2	1766.1	1338.8	1402.1	1506.5	1702.8	1794.6	1800.9	1921.2	1908.5
70°	14612.8	10536.3	1383.1	1234.3	1307.1	1506.5	1813.5	1854.7	1778.7	1889.5	1864.2
72.5°	10102.7	6953.5	1177.4	1142.6	1190.0	1436.9	1810.4	1810.4	1728.1	1728.1	1680.6
75°	6276.2	4089.2	1025.5	1025.5	1025.5	1256.5	1759.7	1668.0	1522.4	1455.9	1417.9
77.5°	3098.5	1987.6	860.9	892.5	857.7	1050.8	1436.9	1364.1	1275.5	1205.9	1180.5
80°	1323.0	993.8	696.3	731.1	690.0	791.2	1139.4	1123.6	1038.1	946.3	917.8
82.5°	607.7	512.7	557.0	572.9	503.2	595.0	832.4	832.4	784.9	658.3	610.8
85°	259.5	272.2	386.1	386.1	316.5	335.5	446.3	424.1	379.8	310.2	284.8
87.5°	88.6	132.9	196.2	170.9	66.5	28.5	15.8	6.3	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)