

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: P643449

Luminaire Tested: GWS-SA6E-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643449
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-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35584.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

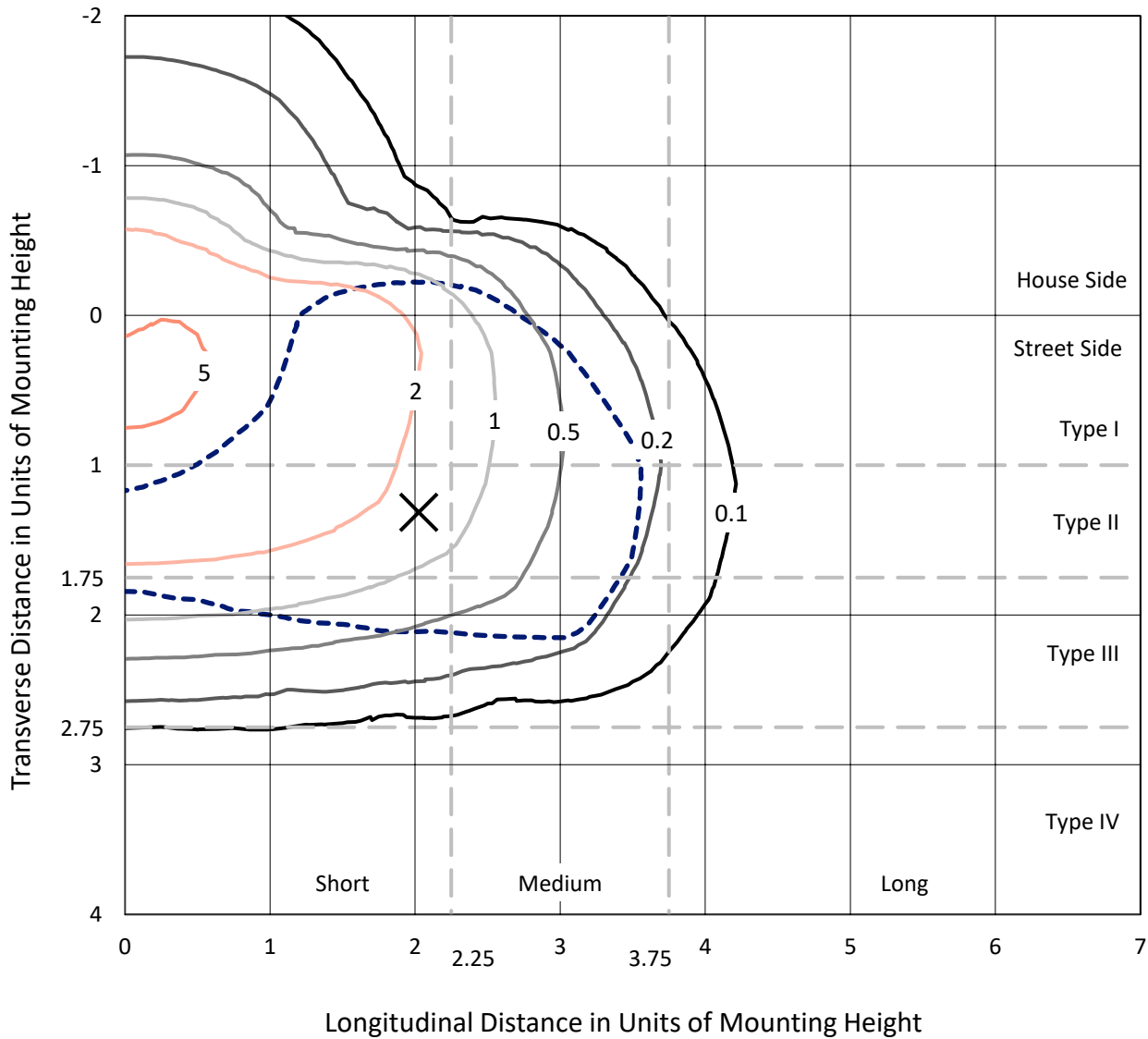
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

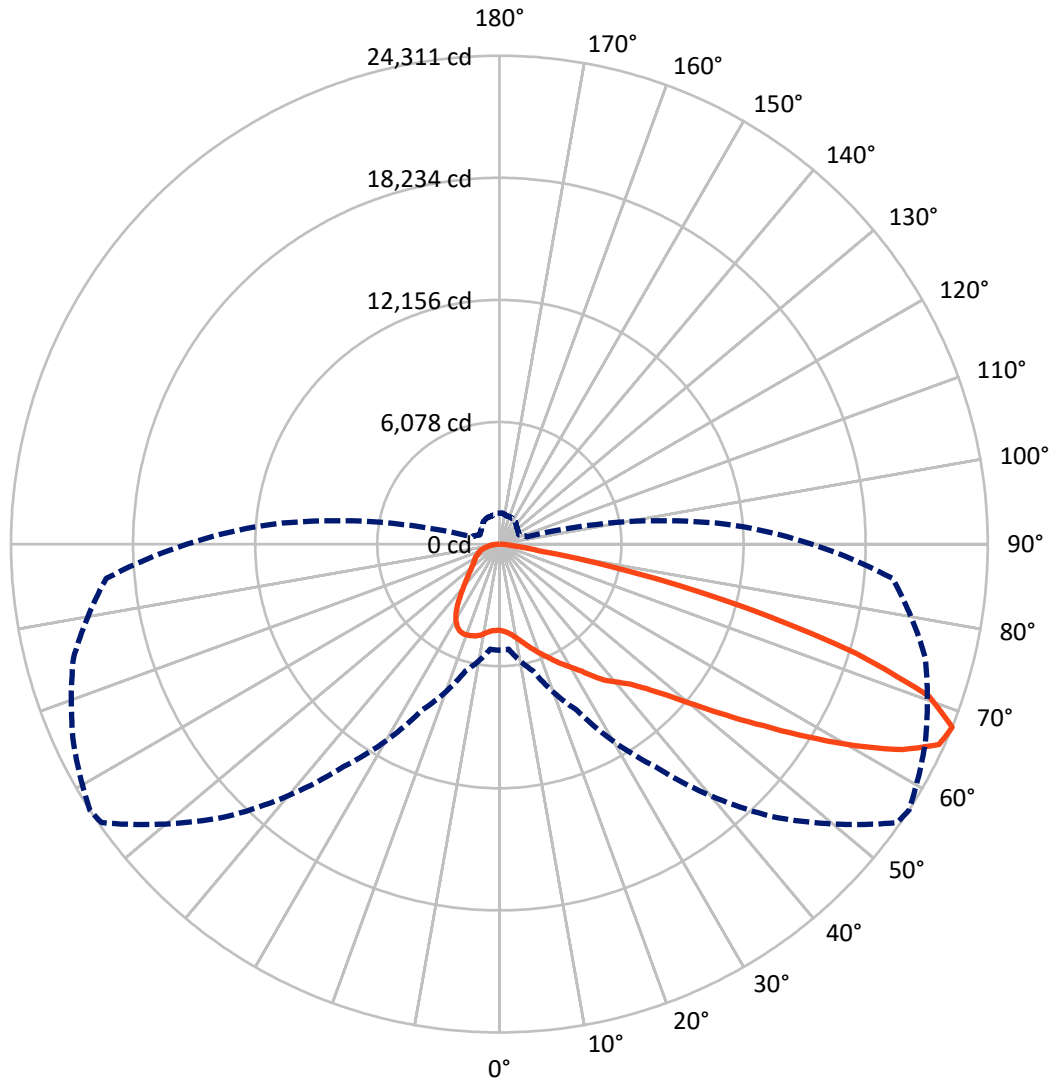
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	7823.7	0.0	7823.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27760.9	0.0	27760.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	35584.6	0.0	35584.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	1.2
10°-20°	1407.8	4.0
20°-30°	2509.8	7.1
30°-40°	3649.0	10.3
40°-50°	5281.3	14.8
50°-60°	8265.0	23.2
60°-70°	9641.7	27.1
70°-80°	4024.8	11.3
80°-90°	379.8	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°	35584.6	100.0
0°-180°	35584.6	100.0

Coefficient of Utilization



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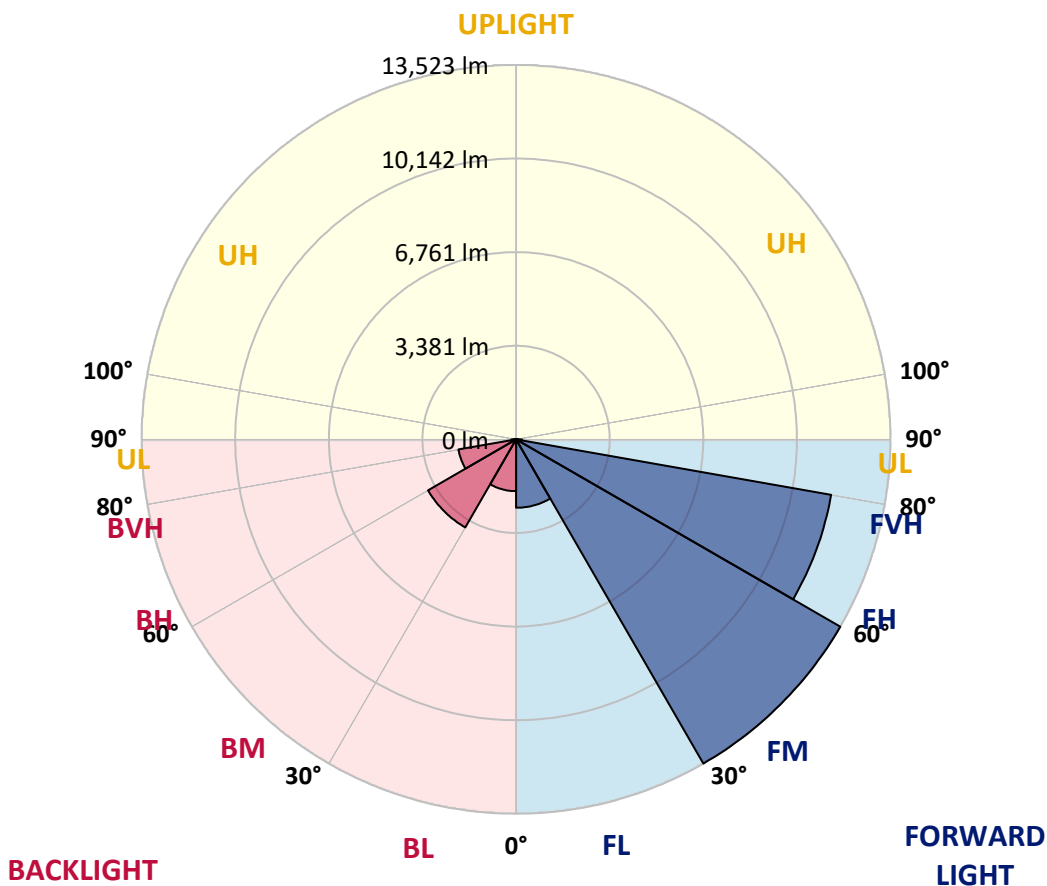
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2471.7	6.9			
FM (30°-60°)	13522.7	38.0			
FH (60°-80°)	11554.9	32.5			G4/12000
FVH (80°-90°)	211.6	0.6			G2/225
BL (0°-30°)	1871.2	5.3	B3/2500		
BM (30°-60°)	3672.7	10.3	B3/5000		
BH (60°-80°)	2111.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	168.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7
2.5°	4348.9	4343.8	4341.2	4356.5	4351.4	4348.9	4348.9	4346.3	4341.2	4320.8	4292.8
5°	4468.7	4458.5	4448.3	4461.0	4450.8	4440.7	4438.1	4433.0	4415.2	4384.6	4341.2
7.5°	4593.6	4583.4	4586.0	4593.6	4586.0	4580.9	4573.2	4568.1	4540.1	4491.6	4433.0
10°	4769.5	4769.5	4774.6	4782.2	4784.8	4777.1	4761.8	4754.2	4721.1	4659.9	4578.3
12.5°	5024.4	5019.3	5019.3	5014.2	5021.9	5014.2	4998.9	4986.2	4945.4	4866.4	4749.1
15°	5360.9	5340.5	5322.7	5289.5	5279.3	5251.3	5256.4	5248.7	5210.5	5103.4	4955.6
17.5°	5720.3	5717.8	5689.7	5623.5	5557.2	5511.3	5521.5	5519.0	5498.6	5353.3	5164.6
20°	6036.4	6049.2	6023.7	5972.7	5883.5	5796.8	5791.7	5804.5	5779.0	5633.7	5371.1
22.5°	6390.8	6380.6	6355.1	6288.8	6222.5	6130.8	6100.2	6090.0	6079.8	5914.1	5582.7
25°	6727.3	6757.8	6724.7	6663.5	6561.6	6462.1	6436.7	6446.8	6418.8	6199.6	5809.6
27.5°	7153.0	7165.7	7145.3	7061.2	6974.5	6834.3	6785.9	6785.9	6775.7	6467.2	5988.0
30°	7606.7	7642.4	7606.7	7537.9	7448.7	7247.3	7142.8	7132.6	7102.0	6742.6	6197.0
32.5°	8063.0	8088.5	8063.0	7996.7	7894.8	7718.9	7568.5	7545.5	7504.8	7043.4	6411.2
35°	8468.3	8491.3	8486.2	8501.5	8417.4	8195.6	8103.8	8093.6	7986.5	7435.9	6701.8
37.5°	8911.9	8939.9	8901.7	8932.3	8899.1	8690.1	8662.1	8611.1	8458.1	7805.6	7007.7
40°	9416.6	9442.1	9380.9	9393.7	9355.4	9238.2	9095.4	9026.6	8799.7	8205.8	7489.5
42.5°	9957.1	10015.7	10043.7	10020.8	9931.6	9865.3	9615.5	9528.8	9340.2	8927.2	8282.2
45°	10739.6	10826.3	10867.1	10808.5	10770.2	10675.9	10370.0	10265.5	10166.1	9944.3	9388.6
47.5°	11583.4	11662.4	11792.5	11817.9	11848.5	11777.2	11346.4	11244.4	11262.2	11236.7	10749.8
50°	12256.4	12322.7	12615.8	12929.4	13189.4	13209.8	12659.2	12549.6	12646.4	12728.0	12389.0
52.5°	12745.8	12804.5	13191.9	13839.4	14428.3	14864.2	14270.2	14145.3	14224.4	14407.9	14252.4
55°	13143.5	13225.1	13630.4	14624.6	15815.0	16503.3	16123.5	15965.4	15932.3	16159.2	16248.4
57.5°	13352.5	13378.0	13946.5	15238.9	16832.2	18111.8	18277.5	18099.1	17783.0	17907.9	18371.9
60°	12875.9	12919.2	13696.7	15397.0	17635.2	19707.6	20538.7	20390.8	19717.8	19786.6	20299.0
62.5°	11557.9	11619.1	12554.7	14645.0	17701.4	20773.2	22626.4	22532.1	21629.7	21257.5	21410.5
65°	9271.3	9291.7	10260.4	12784.1	16383.5	20905.7	24082.0	24059.1	22965.5	22093.6	21438.5
67.5°	5287.0	5251.3	6546.3	9118.4	13520.8	19182.5	24176.3	24311.4	23398.8	21956.0	19654.1
70°	2291.7	2296.8	2893.3	4499.3	8751.3	15504.0	22455.6	22687.6	22144.6	19664.3	15636.6
72.5°	1060.5	1075.7	1333.2	1947.6	3737.1	9618.0	18310.7	18519.7	18053.2	15738.6	11376.9
75°	749.5	762.2	889.7	1116.5	1718.1	3747.3	12248.8	12687.2	12914.1	11772.1	7497.1
77.5°	568.5	586.3	650.0	774.9	1060.5	1328.1	5860.5	6905.7	8226.2	7323.8	3862.0
80°	362.0	362.0	430.8	517.5	647.5	690.8	1692.6	2006.2	4025.1	3018.2	1516.8
82.5°	244.7	252.4	293.2	328.8	372.2	392.6	726.5	774.9	1162.4	1027.3	624.5
85°	130.0	135.1	153.0	150.4	178.4	155.5	305.9	303.4	425.7	466.5	237.1
87.5°	0.0	0.0	2.5	2.5	5.1	7.6	33.1	35.7	89.2	142.8	79.0
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°	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7	4287.7
2.5°	4308.1	4277.5	4292.8	4287.7	4303.0	4303.0	4275.0	4267.3	4269.9	4239.3	4229.1
5°	4346.3	4310.6	4318.3	4308.1	4323.4	4336.1	4323.4	4323.4	4338.7	4315.7	4303.0
7.5°	4433.0	4392.2	4392.2	4379.5	4397.3	4407.5	4397.3	4412.6	4440.7	4417.7	4405.0
10°	4570.7	4522.2	4524.8	4509.5	4517.1	4512.0	4471.2	4458.5	4466.1	4445.8	4435.6
12.5°	4749.1	4682.8	4682.8	4652.2	4634.4	4580.9	4496.7	4466.1	4471.2	4453.4	4445.8
15°	4919.9	4858.7	4846.0	4784.8	4703.2	4603.8	4527.3	4506.9	4512.0	4494.2	4481.4
17.5°	5121.3	5042.3	4996.4	4884.2	4733.8	4631.8	4555.4	4506.9	4466.1	4425.4	4415.2
20°	5307.4	5208.0	5123.8	4950.5	4766.9	4626.7	4484.0	4364.2	4264.8	4211.2	4198.5
22.5°	5498.6	5371.1	5223.2	4996.4	4764.4	4535.0	4272.4	4091.4	3943.6	3864.5	3879.8
25°	5679.5	5519.0	5317.6	5039.7	4682.8	4331.0	3974.2	3703.9	3535.7	3474.5	3456.7
27.5°	5829.9	5631.1	5404.2	5019.3	4514.6	4037.9	3566.3	3265.5	3102.3	3033.5	3015.7
30°	5998.2	5773.9	5529.1	4925.0	4249.5	3627.5	3104.9	2860.2	2742.9	2676.6	2679.2
32.5°	6191.9	5957.4	5705.0	4744.0	3910.4	3183.9	2725.1	2556.8	2462.5	2396.2	2386.0
35°	6451.9	6220.0	5822.3	4471.2	3479.6	2776.0	2465.0	2327.4	2210.1	2123.5	2105.6
37.5°	6773.1	6615.1	5835.0	4106.7	3018.2	2495.6	2279.0	2131.1	1988.4	1873.6	1860.9
40°	7323.8	7142.8	5730.5	3650.4	2625.6	2314.6	2123.5	1952.7	1787.0	1659.5	1641.7
42.5°	8108.9	7736.7	5506.2	3135.5	2329.9	2171.9	1975.6	1758.9	1590.7	1501.5	1488.7
45°	9108.2	8399.5	5169.7	2651.1	2110.7	2031.7	1820.1	1593.2	1504.0	1440.3	1427.5
47.5°	10331.8	9171.9	4782.2	2273.9	1939.9	1904.2	1662.1	1537.1	1458.1	1404.6	1391.8
50°	11795.0	10155.9	4463.6	1978.2	1787.0	1756.4	1611.1	1504.0	1440.3	1396.9	1386.7
52.5°	13464.7	11249.5	4308.1	1766.6	1654.4	1623.8	1593.2	1496.4	1442.8	1409.7	1396.9
55°	15198.1	12401.7	4162.8	1603.4	1542.2	1560.1	1595.8	1521.9	1481.1	1437.7	1425.0
57.5°	16872.9	13482.6	3805.9	1476.0	1460.7	1529.5	1608.5	1547.3	1498.9	1455.6	1440.3
60°	18027.7	14074.0	3201.8	1374.0	1399.5	1491.3	1575.4	1509.1	1447.9	1430.1	1422.4
62.5°	18338.7	14002.6	2485.4	1269.5	1325.6	1407.1	1488.7	1445.4	1381.6	1409.7	1412.2
65°	17612.2	13237.8	1866.0	1167.5	1228.7	1297.5	1399.5	1381.6	1358.7	1435.2	1437.7
67.5°	15555.0	11359.1	1422.4	1078.3	1129.3	1213.4	1371.5	1445.4	1450.5	1547.3	1537.1
70°	11769.5	8486.2	1114.0	994.2	1052.8	1213.4	1460.7	1493.8	1432.6	1521.9	1501.5
72.5°	8136.9	5600.5	948.3	920.2	958.5	1157.3	1458.1	1458.1	1391.8	1391.8	1353.6
75°	5055.0	3293.5	825.9	825.9	825.9	1012.0	1417.3	1343.4	1226.2	1172.6	1142.0
77.5°	2495.6	1600.9	693.4	718.9	690.8	846.3	1157.3	1098.7	1027.3	971.2	950.8
80°	1065.6	800.4	560.8	588.9	555.7	637.3	917.7	905.0	836.1	762.2	739.3
82.5°	489.4	413.0	448.7	461.4	405.3	479.2	670.4	670.4	632.2	530.2	492.0
85°	209.0	219.2	311.0	311.0	254.9	270.2	359.4	341.6	305.9	249.8	229.4
87.5°	71.4	107.1	158.0	137.7	53.5	22.9	12.7	5.1	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)