

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: P641655

Luminaire Tested: GWS-SA6B-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641655
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-SA6B-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: 21264.9 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

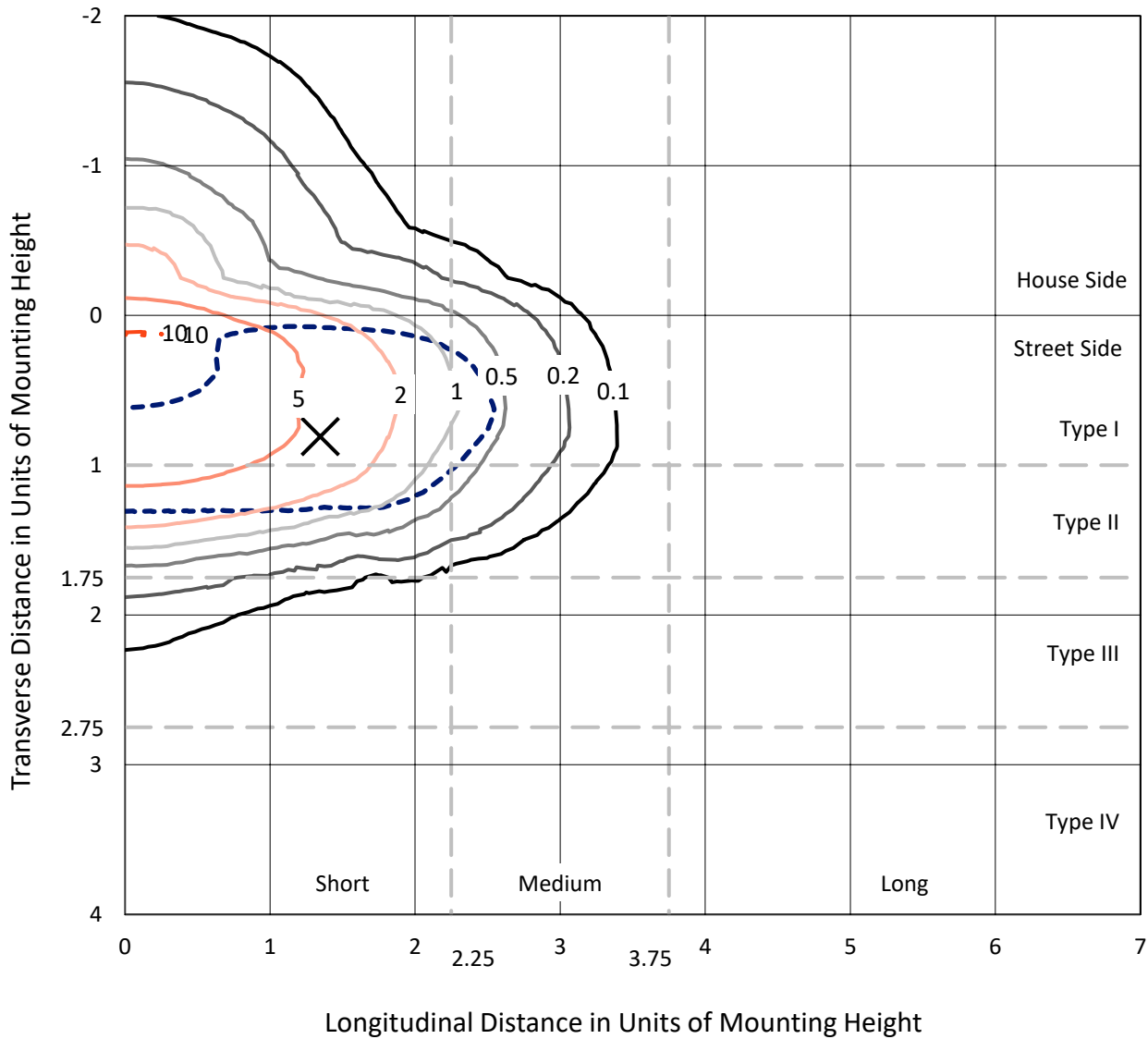
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

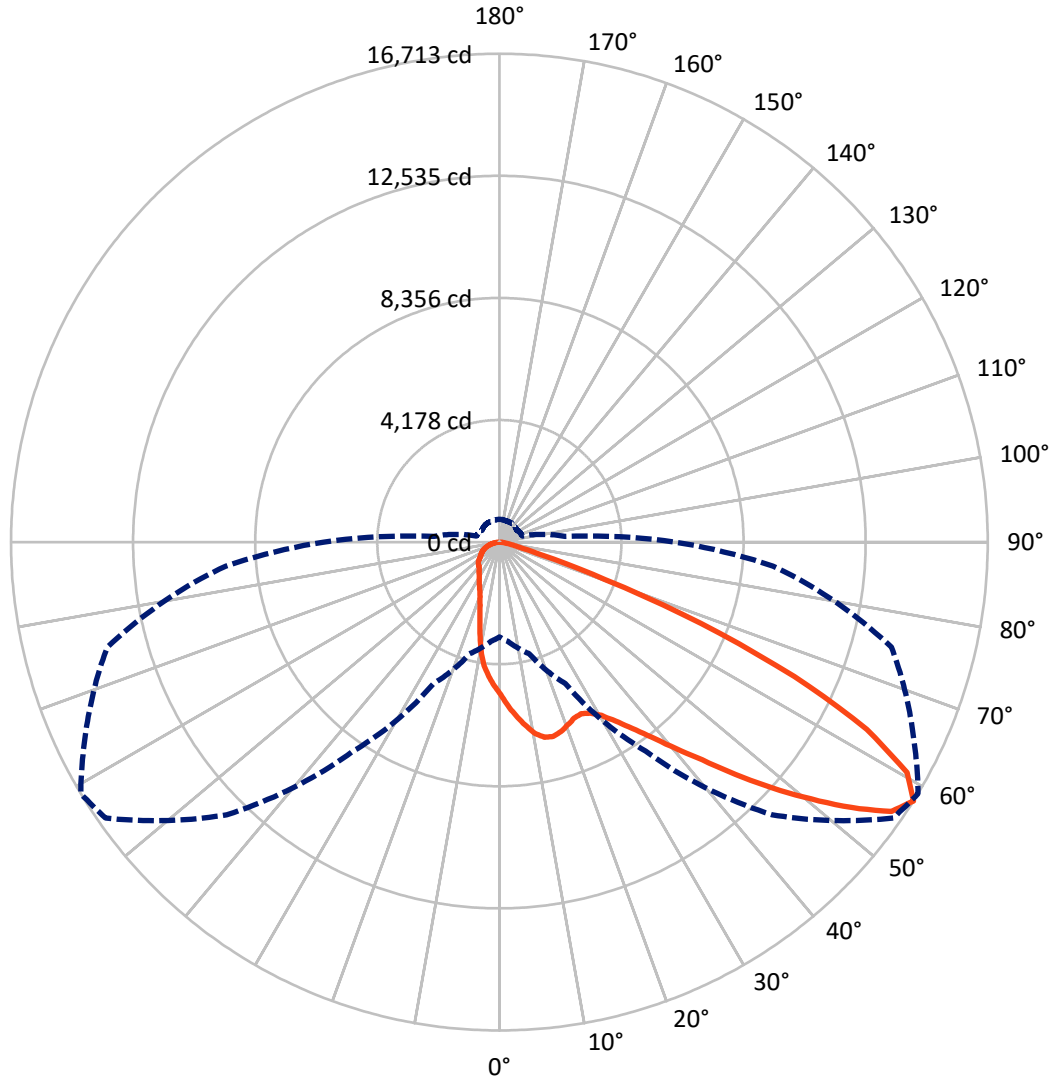
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	3300.2	0.0	3300.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	17964.7	0.0	17964.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	21264.9	0.0	21264.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	2.3
10°-20°	1228.2	5.8
20°-30°	1991.0	9.4
30°-40°	3202.7	15.1
40°-50°	4973.5	23.4
50°-60°	5357.1	25.2
60°-70°	3109.1	14.6
70°-80°	811.6	3.8
80°-90°	106.9	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°	21264.9	100.0
0°-180°	21264.9	100.0

Coefficient of Utilization



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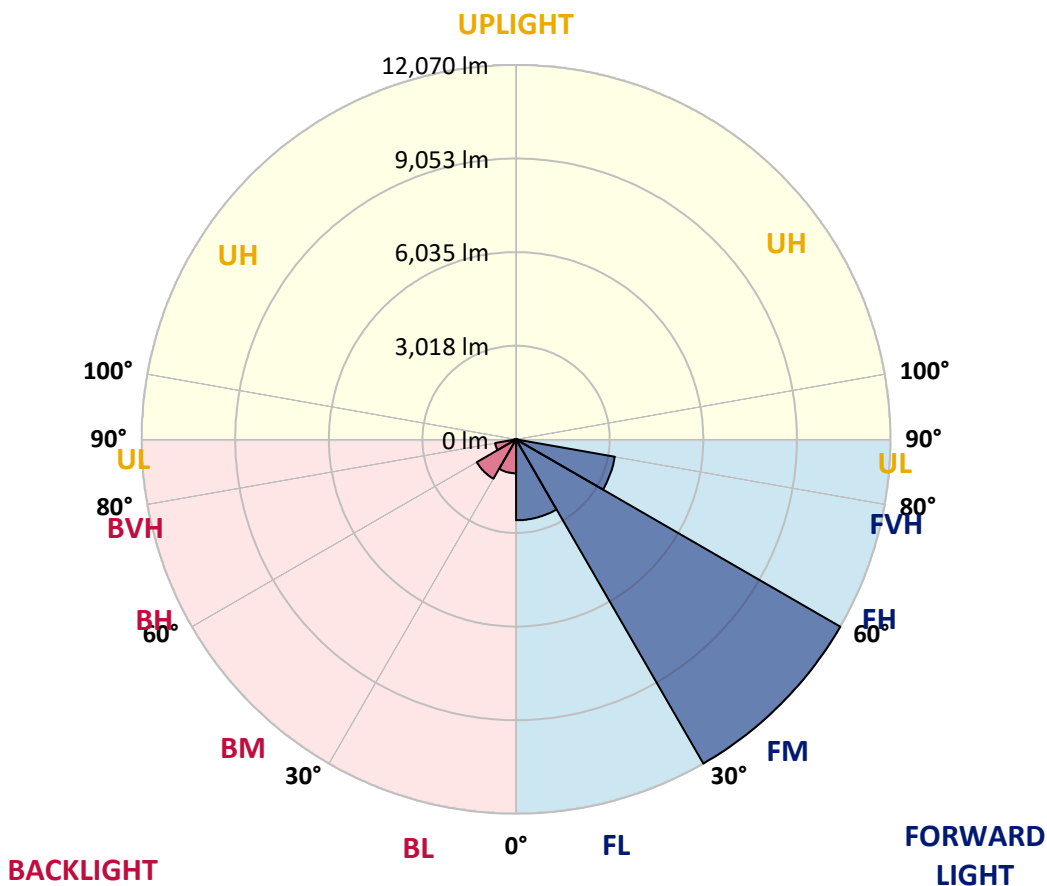
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.0	12.3			
FM (30°-60°)	12070.2	56.8			
FH (60°-80°)	3234.3	15.2			G2/5000
FVH (80°-90°)	51.2	0.2			G1/100
BL (0°-30°)	1094.9	5.1	B3/2500		
BM (30°-60°)	1463.2	6.9	B2/2500		
BH (60°-80°)	686.4	3.2	B2/1000		G2/1000
BVH (80°-90°)	55.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1
2.5°	5920.7	5871.3	5905.7	5844.4	5818.9	5751.5	5664.7	5606.3	5516.5	5399.8	5298.0
5°	6509.0	6474.6	6482.1	6416.2	6357.8	6245.6	6067.4	5968.6	5815.9	5580.9	5362.3
7.5°	6491.1	6531.5	6554.0	6610.8	6627.3	6616.8	6456.6	6318.9	6151.3	5798.0	5468.6
10°	5818.9	5895.3	5964.1	6158.7	6395.3	6694.7	6732.1	6649.8	6480.6	6074.9	5595.9
12.5°	5086.9	5145.3	5206.6	5440.2	5802.4	6401.3	6806.9	6857.8	6790.5	6348.9	5739.6
15°	4727.6	4754.5	4812.9	4967.1	5256.0	5920.7	6676.7	6899.8	7021.0	6639.3	5901.3
17.5°	4712.6	4724.6	4753.0	4835.4	5036.0	5549.5	6441.7	6815.9	7202.2	6946.2	6089.9
20°	5022.5	4991.1	4973.1	4971.6	5070.4	5425.2	6214.1	6681.2	7287.5	7260.5	6292.0
22.5°	5452.1	5462.6	5423.7	5327.9	5315.9	5513.5	6100.4	6545.0	7312.9	7539.0	6479.1
25°	6061.4	6113.8	5998.6	5815.9	5726.1	5769.5	6170.7	6503.1	7309.9	7771.0	6595.9
27.5°	6772.5	6812.9	6696.2	6456.6	6271.0	6166.2	6380.3	6627.3	7335.4	7971.6	6666.2
30°	7582.4	7595.9	7435.7	7184.2	6913.2	6688.7	6729.1	6883.3	7465.6	8235.1	6748.6
32.5°	8571.9	8628.8	8386.3	7988.1	7609.4	7321.9	7197.7	7296.5	7747.1	8546.5	6875.8
35°	9827.9	9847.4	9539.0	8968.6	8432.7	8034.5	7774.0	7826.4	8175.2	8982.1	7067.4
37.5°	11012.1	11031.5	10703.7	10173.7	9407.3	8862.4	8485.1	8461.2	8723.1	9597.4	7380.3
40°	11763.6	11819.0	11672.3	11339.9	10607.9	9872.8	9360.9	9278.5	9441.7	10350.4	7815.9
42.5°	12167.8	12191.7	12188.7	12232.1	11796.5	11066.0	10348.9	10184.2	10293.5	11163.3	8256.1
45°	12170.8	12230.7	12390.8	12808.5	12828.0	12372.9	11597.4	11339.9	11239.6	11982.1	8715.6
47.5°	11625.9	11690.2	12130.4	12952.2	13558.5	13661.8	13092.9	12576.5	12154.3	12687.2	9092.9
50°	9976.1	10137.8	10976.1	12429.8	13702.2	14694.7	14519.6	13819.0	12967.2	13232.2	9329.4
52.5°	8543.5	8537.5	9054.0	10953.7	13101.9	15149.8	15899.8	15097.4	13771.1	13578.0	9389.3
55°	6256.0	6290.5	6818.9	8377.3	11500.1	14709.7	16658.8	16274.1	14693.2	13762.1	9365.4
57.5°	3244.0	3414.7	3956.6	5345.9	8738.1	13194.7	16456.7	16712.7	15630.4	13892.3	9396.8
60°	1639.2	1606.3	1800.9	2552.4	5062.9	10305.5	15211.2	16027.1	15799.5	13994.1	9416.3
62.5°	1094.3	1085.3	1031.4	1182.6	2068.9	6103.3	12967.2	14110.9	14624.4	13754.6	9167.7
65°	947.6	929.6	830.8	824.9	1004.5	2531.5	9504.6	11092.9	12086.9	12690.2	8573.4
67.5°	853.3	826.4	726.1	676.7	721.6	1112.3	5356.3	7440.2	8925.2	10732.1	7271.0
70°	762.0	748.5	648.2	576.4	571.9	678.1	1973.1	3839.9	5461.1	7321.9	5315.9
72.5°	682.6	658.7	573.4	504.5	470.1	480.5	856.3	1479.1	2826.4	4567.4	3179.7
75°	591.3	573.4	498.5	429.6	387.7	351.8	522.5	684.1	1288.9	2170.7	1501.5
77.5°	456.6	444.6	393.7	341.3	317.4	262.0	317.4	431.1	595.8	914.7	781.4
80°	265.0	272.5	293.4	266.5	233.5	187.1	206.6	248.5	357.8	495.5	443.1
82.5°	133.2	142.2	190.1	154.2	139.2	109.3	122.8	146.7	187.1	274.0	173.7
85°	10.5	10.5	34.4	38.9	47.9	38.9	49.4	59.9	85.3	109.3	58.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	7.5	13.5	25.4	16.5
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°	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1
2.5°	5229.1	5152.7	5061.4	4986.6	4871.3	4809.9	4732.1	4636.3	4597.3	4579.4	4568.9
5°	5239.6	5104.8	4910.2	4730.6	4531.5	4374.3	4199.1	4016.5	3911.7	3886.3	3868.3
7.5°	5278.5	5089.9	4780.0	4483.6	4113.8	3771.0	3437.2	3106.3	2937.2	2872.8	2866.8
10°	5332.4	5083.9	4648.2	4155.7	3531.5	2989.5	2598.8	2339.8	2230.6	2194.6	2182.7
12.5°	5399.8	5079.4	4474.6	3700.6	2859.3	2347.3	2124.3	2082.4	2097.3	2094.3	2094.3
15°	5485.1	5085.4	4265.0	3185.7	2312.9	2037.4	2041.9	2091.3	2137.7	2145.2	2145.2
17.5°	5577.9	5079.4	3961.1	2669.2	1985.0	1964.1	2033.0	2101.8	2143.7	2149.7	2149.7
20°	5678.2	5050.9	3577.9	2182.7	1841.3	1917.7	1992.5	2046.4	2071.9	2077.9	2077.9
22.5°	5738.1	4970.1	3161.7	1847.3	1750.0	1844.3	1893.7	1949.1	1952.1	1904.2	1902.7
25°	5729.1	4818.9	2687.2	1631.8	1652.7	1735.0	1797.9	1759.0	1711.1	1684.1	1679.7
27.5°	5672.2	4591.4	2203.6	1468.6	1537.4	1630.3	1610.8	1577.9	1565.9	1535.9	1532.9
30°	5600.4	4311.4	1769.5	1341.3	1417.7	1503.0	1473.1	1470.1	1458.1	1425.2	1425.2
32.5°	5531.5	4022.5	1441.6	1247.0	1341.3	1347.3	1389.2	1392.2	1386.2	1329.4	1323.4
35°	5512.0	3733.6	1220.1	1172.2	1266.5	1263.5	1323.4	1321.9	1218.6	1139.2	1137.7
37.5°	5570.4	3440.2	1088.3	1110.8	1163.2	1202.1	1250.0	1163.2	1128.8	1080.8	1077.9
40°	5694.7	3169.2	1021.0	1074.9	1097.3	1154.2	1079.4	1085.3	1076.4	1040.4	1035.9
42.5°	5859.3	2938.6	983.5	1062.9	1059.9	1074.9	992.5	1016.5	1029.9	1003.0	998.5
45°	6018.0	2738.0	964.1	1018.0	1032.9	946.1	929.6	952.1	973.1	962.6	958.1
47.5°	6134.8	2564.4	953.6	956.6	998.5	902.7	875.8	886.2	911.7	916.2	914.7
50°	6170.7	2416.2	941.6	905.7	896.7	859.3	838.3	835.3	865.3	886.2	889.2
52.5°	6101.9	2284.5	910.2	860.8	817.4	823.4	815.9	800.9	830.8	859.3	862.3
55°	6000.1	2209.6	860.8	817.4	766.5	790.4	793.4	779.9	799.4	818.9	818.9
57.5°	6007.5	2253.0	812.9	777.0	721.6	753.0	769.5	763.5	763.5	778.5	779.9
60°	6056.9	2315.9	781.4	726.1	676.7	709.6	747.0	741.0	727.6	747.0	747.0
62.5°	5914.7	2232.1	760.5	676.7	628.7	667.7	712.6	709.6	694.6	726.1	729.0
65°	5495.6	2007.5	736.5	615.3	580.8	625.8	664.7	675.2	661.7	703.6	711.1
67.5°	4606.3	1688.6	690.1	556.9	532.9	574.9	612.3	627.3	616.8	666.2	672.2
70°	3434.2	1366.8	616.8	492.5	474.6	512.0	546.4	552.4	553.9	612.3	618.3
72.5°	2190.1	1062.9	519.5	420.7	407.2	435.6	461.1	485.0	495.5	550.9	549.4
75°	1221.6	790.4	417.7	356.3	332.3	354.8	384.7	413.2	443.1	524.0	532.9
77.5°	703.6	555.4	330.8	285.9	257.5	281.4	306.9	347.3	437.1	507.5	498.5
80°	396.7	360.8	250.0	209.6	191.6	209.6	229.0	305.4	344.3	374.3	378.7
82.5°	185.6	202.1	170.7	128.7	128.7	140.7	158.7	236.5	260.5	212.6	185.6
85°	67.4	91.3	83.8	65.9	58.4	56.9	98.8	134.7	83.8	74.9	64.4
87.5°	18.0	25.4	24.0	16.5	9.0	7.5	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)