

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: P641490

Luminaire Tested: GWS-SA6B-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641490
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-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15881.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

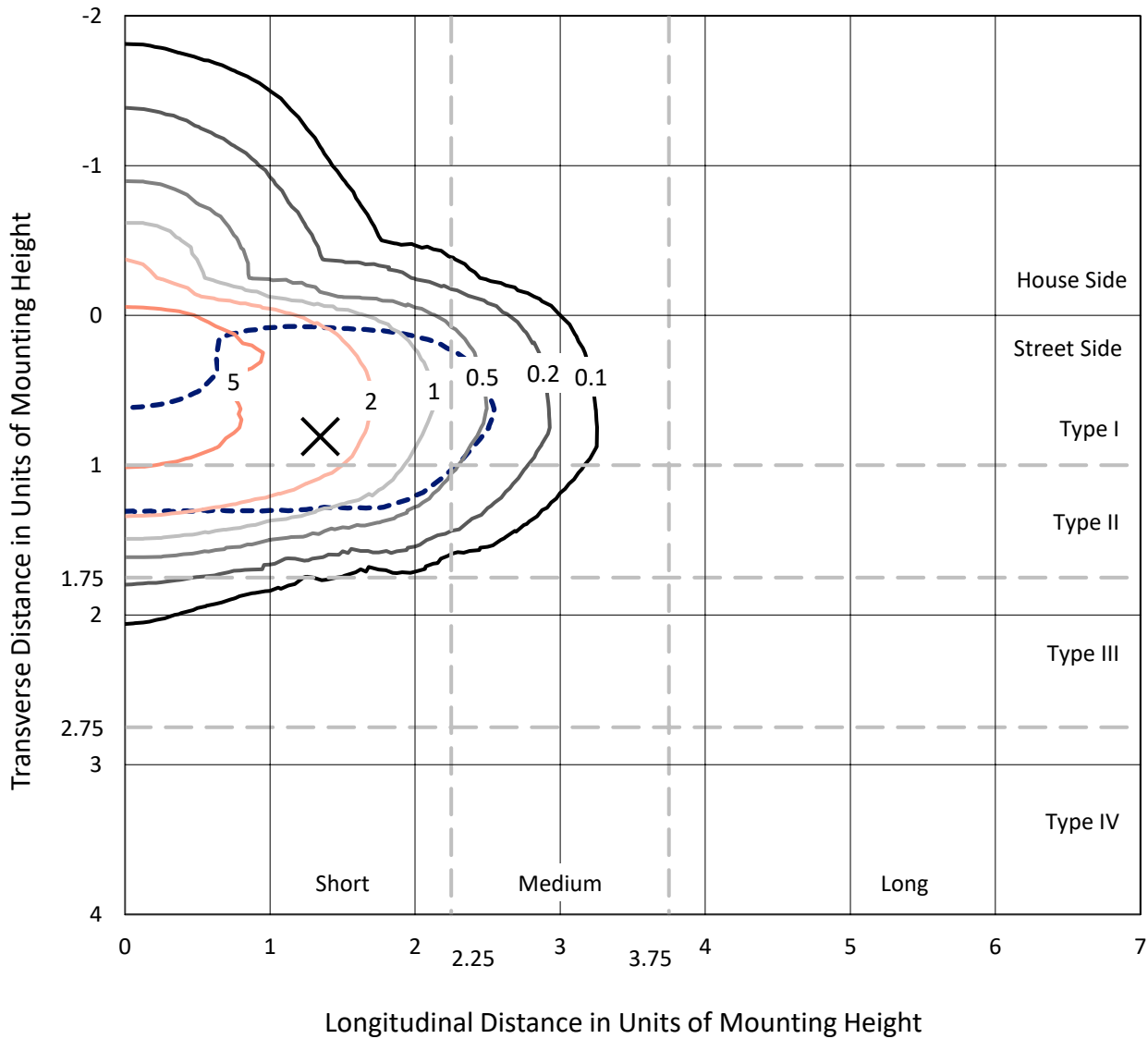
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

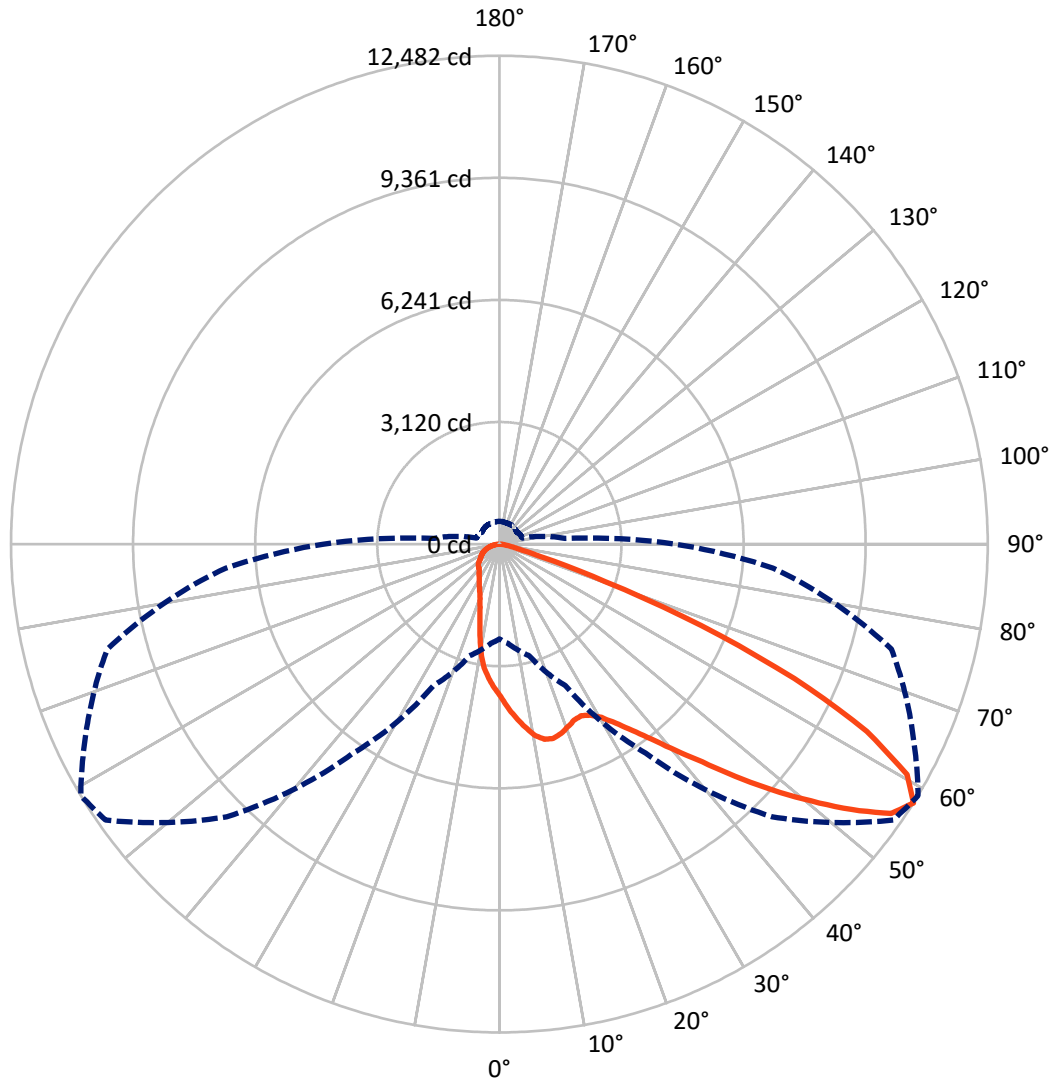
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	2464.7	0.0	2464.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13416.6	0.0	13416.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	15881.3	0.0	15881.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.0	2.3
10°-20°	917.3	5.8
20°-30°	1486.9	9.4
30°-40°	2391.9	15.1
40°-50°	3714.4	23.4
50°-60°	4000.9	25.2
60°-70°	2322.0	14.6
70°-80°	606.2	3.8
80°-90°	79.9	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°	15881.3	100.0
0°-180°	15881.3	100.0

Coefficient of Utilization



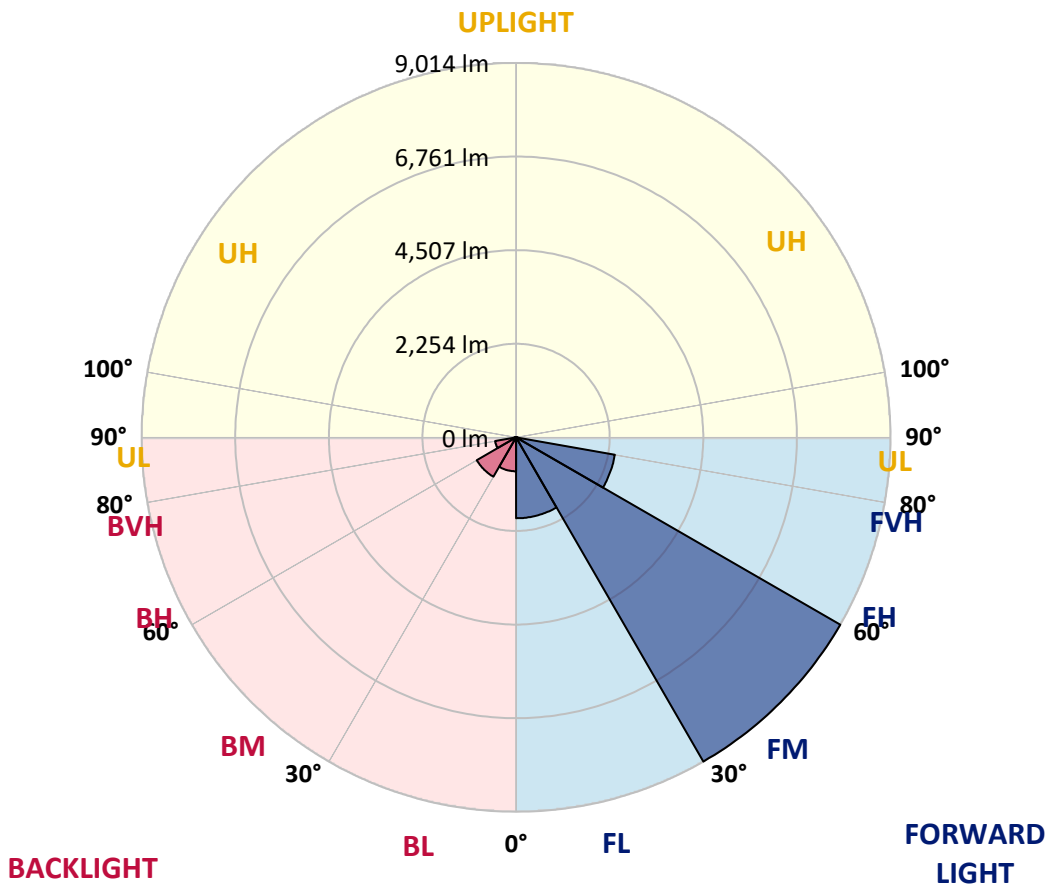
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1948.5	12.3			
FM (30°-60°)	9014.4	56.8			
FH (60°-80°)	2415.5	15.2			G2/5000
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	817.7	5.1	B2/1000		
BM (30°-60°)	1092.7	6.9	B2/2500		
BH (60°-80°)	512.6	3.2	B2/1000		G2/1000
BVH (80°-90°)	41.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5
2.5°	4421.8	4384.9	4410.6	4364.8	4345.8	4295.4	4230.6	4187.0	4119.9	4032.7	3956.7
5°	4861.2	4835.4	4841.0	4791.8	4748.2	4664.4	4531.3	4457.6	4343.5	4168.0	4004.8
7.5°	4847.7	4877.9	4894.7	4937.2	4949.5	4941.7	4822.0	4719.2	4594.0	4330.1	4084.1
10°	4345.8	4402.8	4454.2	4599.5	4776.2	4999.8	5027.7	4966.3	4839.9	4536.9	4179.2
12.5°	3799.0	3842.6	3888.5	4062.9	4333.5	4780.7	5083.6	5121.7	5071.3	4741.5	4286.5
15°	3530.7	3550.8	3594.4	3709.6	3925.4	4421.8	4986.4	5153.0	5243.5	4958.4	4407.2
17.5°	3519.5	3528.5	3549.7	3611.2	3761.0	4144.5	4810.8	5090.4	5378.8	5187.6	4548.1
20°	3751.0	3727.5	3714.1	3712.9	3786.7	4051.7	4640.9	4989.7	5442.5	5422.4	4699.0
22.5°	4071.8	4079.7	4050.6	3979.0	3970.1	4117.7	4555.9	4888.0	5461.5	5630.4	4838.8
25°	4526.9	4566.0	4479.9	4343.5	4276.4	4308.9	4608.5	4856.7	5459.3	5803.7	4926.0
27.5°	5057.9	5088.1	5000.9	4822.0	4683.4	4605.1	4765.0	4949.5	5478.3	5953.5	4978.6
30°	5662.8	5672.8	5553.2	5365.4	5163.0	4995.3	5025.5	5140.7	5575.6	6150.2	5040.0
32.5°	6401.8	6444.3	6263.2	5965.8	5682.9	5468.2	5375.4	5449.2	5785.8	6382.8	5135.1
35°	7339.8	7354.3	7124.0	6698.1	6297.8	6000.4	5805.9	5845.0	6105.5	6708.1	5278.2
37.5°	8224.2	8238.7	7993.9	7598.1	7025.6	6618.7	6336.9	6319.1	6514.7	7167.6	5511.8
40°	8785.4	8826.8	8717.2	8469.0	7922.3	7373.4	6991.0	6929.5	7051.4	7730.0	5837.2
42.5°	9087.3	9105.2	9102.9	9135.4	8810.0	8264.4	7728.9	7605.9	7687.5	8337.1	6165.9
45°	9089.5	9134.2	9253.9	9565.8	9580.3	9240.4	8661.3	8469.0	8394.1	8948.6	6509.1
47.5°	8682.6	8730.6	9059.3	9673.1	10125.9	10203.1	9778.2	9392.5	9077.2	9475.2	6790.9
50°	7450.5	7571.2	8197.3	9282.9	10233.3	10974.5	10843.7	10320.5	9684.3	9882.2	6967.5
52.5°	6380.5	6376.1	6761.8	8180.6	9784.9	11314.4	11874.5	11275.2	10284.7	10140.5	7012.2
55°	4672.2	4697.9	5092.6	6256.4	8588.6	10985.7	12441.3	12154.0	10973.4	10278.0	6994.3
57.5°	2422.8	2550.2	2954.9	3992.5	6525.9	9854.2	12290.4	12481.6	11673.3	10375.2	7017.8
60°	1224.2	1199.6	1345.0	1906.2	3781.1	7696.5	11360.2	11969.5	11799.6	10451.3	7032.4
62.5°	817.3	810.6	770.3	883.2	1545.1	4558.2	9684.3	10538.5	10922.0	10272.4	6846.8
65°	707.7	694.3	620.5	616.0	750.2	1890.6	7098.3	8284.5	9026.9	9477.5	6402.9
67.5°	637.3	617.1	542.2	505.3	538.9	830.7	4000.3	5556.6	6665.6	8015.1	5430.2
70°	569.1	559.0	484.1	430.4	427.1	506.5	1473.6	2867.7	4078.5	5468.2	3970.1
72.5°	509.8	491.9	428.2	376.8	351.1	358.9	639.5	1104.6	2110.8	3411.1	2374.7
75°	441.6	428.2	372.3	320.9	289.6	262.7	390.2	510.9	962.6	1621.1	1121.4
77.5°	341.0	332.1	294.0	254.9	237.0	195.7	237.0	322.0	445.0	683.1	583.6
80°	197.9	203.5	219.1	199.0	174.4	139.8	154.3	185.6	267.2	370.1	330.9
82.5°	99.5	106.2	142.0	115.2	104.0	81.6	91.7	109.6	139.8	204.6	129.7
85°	7.8	7.8	25.7	29.1	35.8	29.1	36.9	44.7	63.7	81.6	43.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.6	10.1	19.0	12.3
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°	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5	3898.5
2.5°	3905.2	3848.2	3780.0	3724.1	3638.0	3592.2	3534.1	3462.5	3433.4	3420.0	3412.2
5°	3913.1	3812.5	3667.1	3532.9	3384.3	3266.9	3136.1	2999.7	2921.4	2902.4	2889.0
7.5°	3942.1	3801.3	3569.8	3348.5	3072.3	2816.3	2567.0	2319.9	2193.6	2145.5	2141.0
10°	3982.4	3796.8	3471.5	3103.6	2637.4	2232.7	1940.9	1747.5	1665.9	1639.0	1630.1
12.5°	4032.7	3793.4	3341.8	2763.7	2135.4	1753.1	1586.5	1555.2	1566.3	1564.1	1564.1
15°	4096.4	3797.9	3185.2	2379.2	1727.3	1521.6	1525.0	1561.9	1596.5	1602.1	1602.1
17.5°	4165.7	3793.4	2958.3	1993.4	1482.5	1466.8	1518.3	1569.7	1601.0	1605.5	1605.5
20°	4240.7	3772.2	2672.1	1630.1	1375.2	1432.2	1488.1	1528.3	1547.3	1551.8	1551.8
22.5°	4285.4	3711.8	2361.3	1379.6	1307.0	1377.4	1414.3	1455.7	1457.9	1422.1	1421.0
25°	4278.7	3598.9	2006.8	1218.6	1234.3	1295.8	1342.7	1313.7	1277.9	1257.8	1254.4
27.5°	4236.2	3429.0	1645.7	1096.8	1148.2	1217.5	1203.0	1178.4	1169.5	1147.1	1144.9
30°	4182.5	3219.9	1321.5	1001.7	1058.8	1122.5	1100.1	1097.9	1089.0	1064.4	1064.4
32.5°	4131.1	3004.1	1076.7	931.3	1001.7	1006.2	1037.5	1039.8	1035.3	992.8	988.3
35°	4116.6	2788.3	911.2	875.4	945.8	943.6	988.3	987.2	910.1	850.8	849.7
37.5°	4160.2	2569.2	812.8	829.6	868.7	897.8	933.5	868.7	843.0	807.2	805.0
40°	4253.0	2366.9	762.5	802.7	819.5	862.0	806.1	810.6	803.9	777.0	773.7
42.5°	4375.9	2194.7	734.5	793.8	791.6	802.7	741.2	759.1	769.2	749.1	745.7
45°	4494.4	2044.9	720.0	760.3	771.4	706.6	694.3	711.1	726.7	718.9	715.5
47.5°	4581.7	1915.2	712.2	714.4	745.7	674.2	654.0	661.9	680.9	684.2	683.1
50°	4608.5	1804.5	703.2	676.4	669.7	641.7	626.1	623.9	646.2	661.9	664.1
52.5°	4557.1	1706.1	679.8	642.9	610.4	614.9	609.3	598.1	620.5	641.7	644.0
55°	4481.0	1650.2	642.9	610.4	572.4	590.3	592.6	582.5	597.0	611.6	611.6
57.5°	4486.6	1682.6	607.1	580.3	538.9	562.4	574.7	570.2	570.2	581.4	582.5
60°	4523.5	1729.6	583.6	542.2	505.3	529.9	557.9	553.4	543.4	557.9	557.9
62.5°	4417.3	1667.0	568.0	505.3	469.6	498.6	532.2	529.9	518.8	542.2	544.5
65°	4104.3	1499.3	550.1	459.5	433.8	467.3	496.4	504.2	494.2	525.5	531.1
67.5°	3440.2	1261.1	515.4	415.9	398.0	429.3	457.3	468.5	460.6	497.5	502.0
70°	2564.7	1020.8	460.6	367.8	354.4	382.4	408.1	412.5	413.7	457.3	461.7
72.5°	1635.7	793.8	388.0	314.2	304.1	325.3	344.4	362.2	370.1	411.4	410.3
75°	912.3	590.3	311.9	266.1	248.2	265.0	287.3	308.6	330.9	391.3	398.0
77.5°	525.5	414.8	247.1	213.5	192.3	210.2	229.2	259.4	326.5	379.0	372.3
80°	296.3	269.4	186.7	156.5	143.1	156.5	171.1	228.1	257.1	279.5	282.9
82.5°	138.6	150.9	127.5	96.1	96.1	105.1	118.5	176.6	194.5	158.8	138.6
85°	50.3	68.2	62.6	49.2	43.6	42.5	73.8	100.6	62.6	55.9	48.1
87.5°	13.4	19.0	17.9	12.3	6.7	5.6	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)