

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: P639015

Luminaire Tested: GWS-SA5B-722-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639015  
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-SA5B-722-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

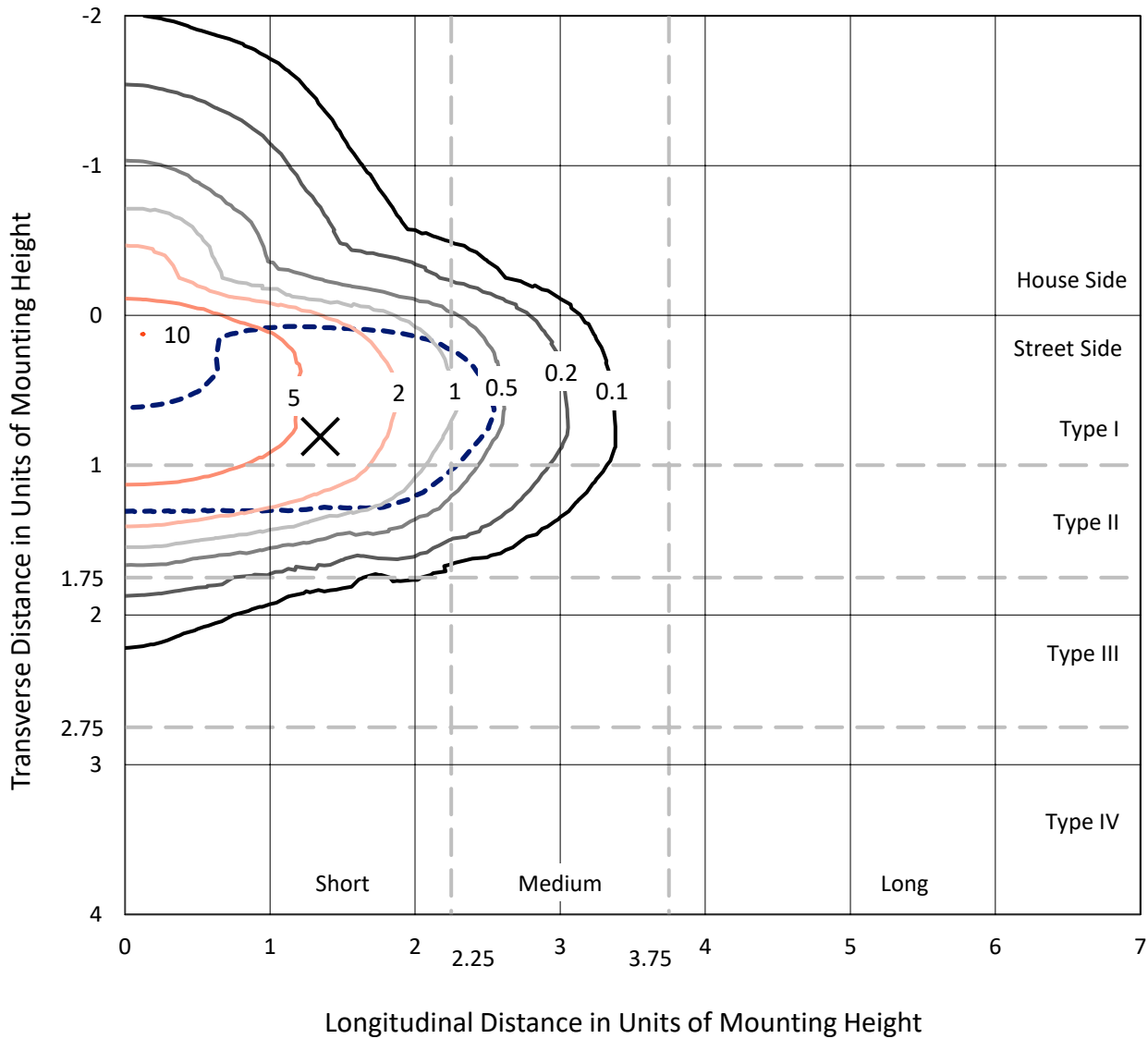
Lumens per Lamp: N/A  
Luminaire Lumens: 13318.4 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

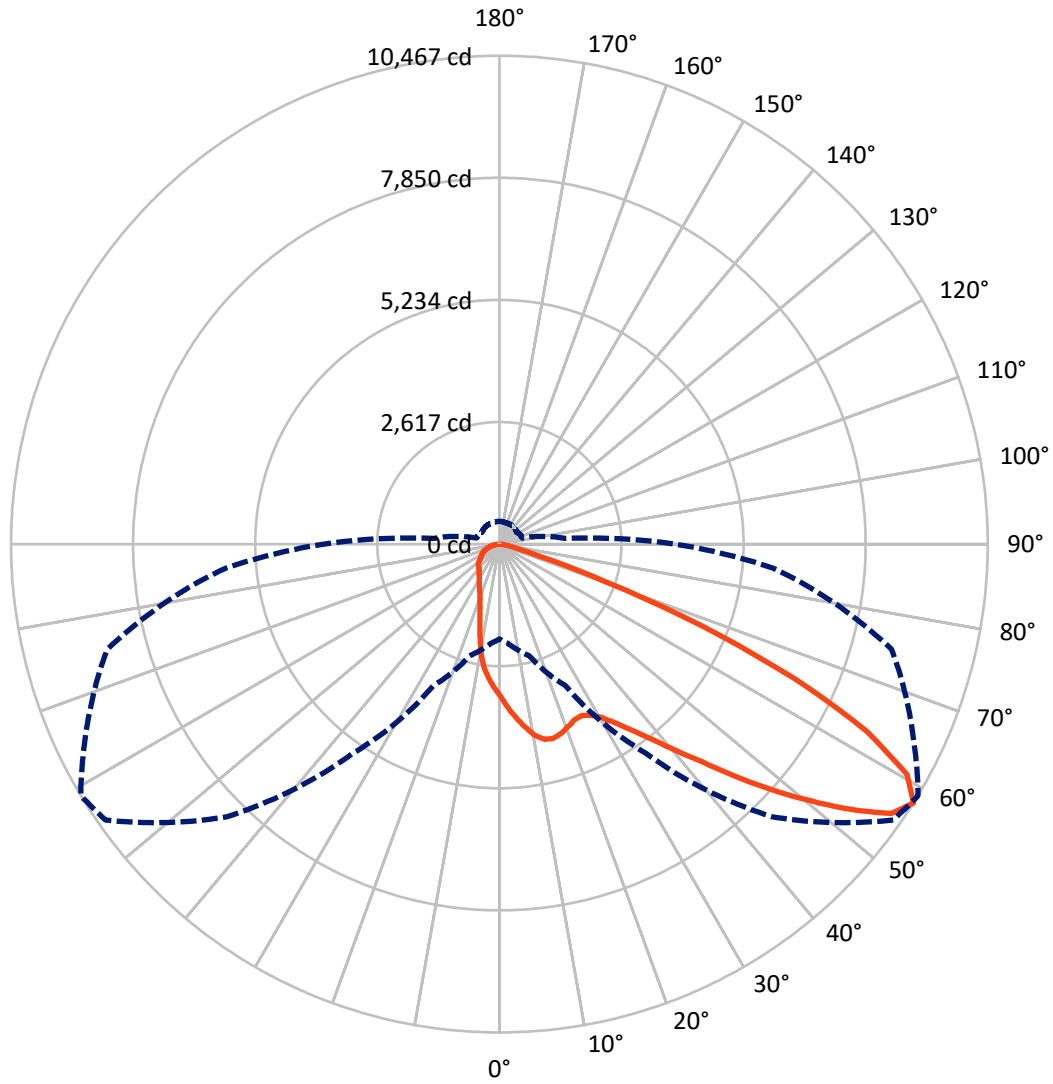
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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
<b>House Side</b>	Lumens	2066.9	0.0	2066.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	11251.5	0.0	11251.5
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	13318.4	0.0	13318.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.6	2.3
10°-20°	769.2	5.8
20°-30°	1247.0	9.4
30°-40°	2005.9	15.1
40°-50°	3115.0	23.4
50°-60°	3355.2	25.2
60°-70°	1947.2	14.6
70°-80°	508.3	3.8
80°-90°	67.0	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°	13318.4	100.0
0°-180°	13318.4	100.0

**Coefficient of Utilization**



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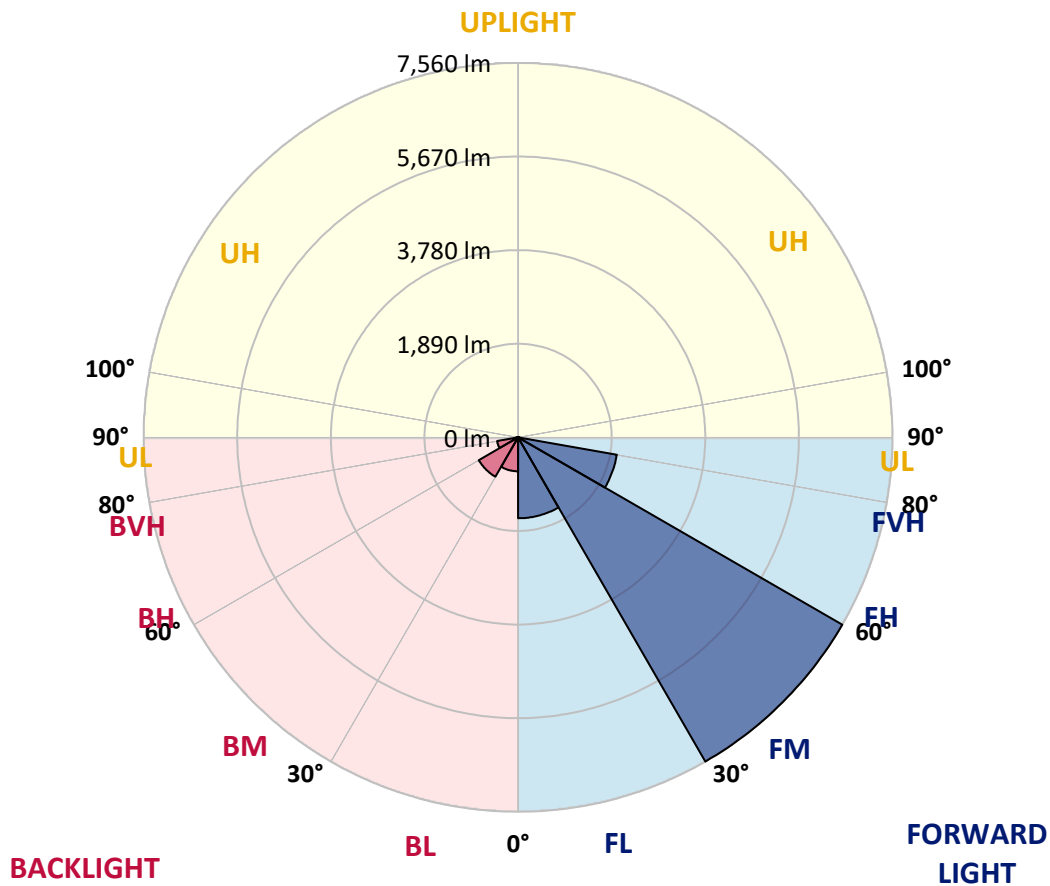
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.0	12.3			
FM (30°-60°)	7559.7	56.8			
FH (60°-80°)	2025.7	15.2			G2/5000
FVH (80°-90°)	32.1	0.2			G1/100
BL (0°-30°)	685.7	5.1	B2/1000		
BM (30°-60°)	916.4	6.9	B1/1000		
BH (60°-80°)	429.9	3.2	B1/500		G1/500
BVH (80°-90°)	34.9	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°	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4
2.5°	3708.2	3677.3	3698.8	3660.4	3644.4	3602.2	3547.9	3511.3	3455.0	3381.9	3318.2
5°	4076.7	4055.1	4059.8	4018.5	3982.0	3911.7	3800.1	3738.2	3642.6	3495.4	3358.5
7.5°	4065.4	4090.7	4104.8	4140.4	4150.7	4144.2	4043.9	3957.6	3852.6	3631.3	3425.0
10°	3644.4	3692.3	3735.4	3857.3	4005.4	4192.9	4216.4	4164.8	4058.9	3804.8	3504.7
12.5°	3186.0	3222.5	3261.0	3407.2	3634.1	4009.2	4263.3	4295.1	4252.9	3976.3	3594.7
15°	2960.9	2977.8	3014.4	3110.9	3291.9	3708.2	4181.7	4321.4	4397.3	4158.2	3696.0
17.5°	2951.6	2959.1	2976.9	3028.4	3154.1	3475.7	4034.5	4268.9	4510.8	4350.5	3814.1
20°	3145.6	3125.9	3114.7	3113.8	3175.6	3397.9	3892.0	4184.5	4564.2	4547.3	3940.7
22.5°	3414.7	3421.3	3396.9	3336.9	3329.4	3453.2	3820.7	4099.2	4580.2	4721.7	4057.9
25°	3796.3	3829.1	3757.0	3642.6	3586.3	3613.5	3864.8	4072.9	4578.3	4867.1	4131.1
27.5°	4241.7	4267.0	4193.9	4043.9	3927.6	3862.0	3996.0	4150.7	4594.2	4992.7	4175.1
30°	4748.9	4757.4	4657.0	4499.5	4329.8	4189.2	4214.5	4311.1	4675.8	5157.7	4226.7
32.5°	5368.7	5404.3	5252.4	5003.0	4765.8	4585.8	4508.0	4569.8	4852.1	5352.7	4306.4
35°	6155.3	6167.5	5974.4	5617.1	5281.5	5032.1	4868.9	4901.8	5120.2	5625.6	4426.4
37.5°	6897.0	6909.2	6703.8	6371.9	5891.9	5550.6	5314.3	5299.3	5463.4	6010.9	4622.4
40°	7367.6	7402.3	7310.4	7102.3	6643.8	6183.5	5862.8	5811.2	5913.4	6482.5	4895.2
42.5°	7620.8	7635.8	7633.9	7661.1	7388.3	6930.7	6481.6	6378.5	6446.9	6991.7	5170.8
45°	7622.7	7660.2	7760.5	8022.1	8034.3	7749.2	7263.6	7102.3	7039.5	7504.5	5458.7
47.5°	7281.4	7321.7	7597.3	8112.1	8491.8	8556.5	8200.2	7876.8	7612.4	7946.1	5695.0
50°	6248.1	6349.4	6874.5	7784.9	8581.8	9203.5	9093.8	8655.0	8121.5	8287.4	5843.1
52.5°	5350.9	5347.1	5670.6	6860.4	8205.8	9488.5	9958.2	9455.7	8625.0	8504.0	5880.6
55°	3918.2	3939.8	4270.8	5246.8	7202.6	9212.8	10433.6	10192.6	9202.5	8619.3	5865.6
57.5°	2031.8	2138.7	2478.1	3348.2	5472.8	8264.0	10307.0	10467.3	9789.5	8700.9	5885.3
60°	1026.7	1006.0	1127.9	1598.6	3171.0	6454.4	9526.9	10037.9	9895.4	8764.7	5897.5
62.5°	685.4	679.8	646.0	740.7	1295.8	3822.6	8121.5	8837.8	9159.4	8614.6	5741.8
65°	593.5	582.2	520.4	516.6	629.1	1585.5	5952.8	6947.6	7570.2	7948.0	5369.6
67.5°	534.4	517.6	454.7	423.8	451.9	696.6	3354.7	4659.9	5590.0	6721.6	4553.9
70°	477.2	468.8	406.0	361.0	358.2	424.7	1235.8	2404.9	3420.4	4585.8	3329.4
72.5°	427.5	412.5	359.1	316.0	294.4	301.0	536.3	926.3	1770.2	2860.6	1991.5
75°	370.4	359.1	312.2	269.1	242.8	220.3	327.2	428.5	807.3	1359.5	940.4
77.5°	286.0	278.5	246.6	213.8	198.8	164.1	198.8	270.0	373.2	572.9	489.4
80°	166.0	170.6	183.8	166.9	146.3	117.2	129.4	155.6	224.1	310.3	277.5
82.5°	83.4	89.1	119.1	96.6	87.2	68.4	76.9	91.9	117.2	171.6	108.8
85°	6.6	6.6	21.6	24.4	30.0	24.4	30.9	37.5	53.4	68.4	36.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.7	8.4	15.9	10.3
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°	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4	3269.4
2.5°	3275.0	3227.2	3170.0	3123.1	3050.9	3012.5	2963.7	2903.7	2879.4	2868.1	2861.5
5°	3281.6	3197.2	3075.3	2962.8	2838.1	2739.7	2630.0	2515.6	2449.9	2434.0	2422.8
7.5°	3306.0	3187.8	2993.7	2808.1	2576.5	2361.8	2152.7	1945.5	1839.6	1799.2	1795.5
10°	3339.7	3184.1	2911.2	2602.8	2211.8	1872.4	1627.7	1465.5	1397.0	1374.5	1367.0
12.5°	3381.9	3181.3	2802.5	2317.7	1790.8	1470.2	1330.5	1304.2	1313.6	1311.7	1311.7
15°	3435.4	3185.0	2671.2	1995.2	1448.6	1276.1	1278.9	1309.8	1338.9	1343.6	1343.6
17.5°	3493.5	3181.3	2480.9	1671.7	1243.3	1230.1	1273.3	1316.4	1342.6	1346.4	1346.4
20°	3556.3	3163.5	2240.9	1367.0	1153.2	1201.1	1247.9	1281.7	1297.6	1301.4	1301.4
22.5°	3593.8	3112.8	1980.2	1157.0	1096.1	1155.1	1186.1	1220.8	1222.6	1192.6	1191.7
25°	3588.2	3018.1	1683.0	1022.0	1035.1	1086.7	1126.1	1101.7	1071.7	1054.8	1052.0
27.5°	3552.6	2875.6	1380.1	919.8	962.9	1021.0	1008.9	988.2	980.7	962.0	960.1
30°	3507.6	2700.3	1108.2	840.1	887.9	941.3	922.6	920.7	913.2	892.6	892.6
32.5°	3464.4	2519.3	902.9	781.0	840.1	843.8	870.1	872.0	868.2	832.6	828.8
35°	3452.2	2338.4	764.1	734.1	793.2	791.3	828.8	827.9	763.2	713.5	712.6
37.5°	3488.8	2154.6	681.6	695.7	728.5	752.9	782.9	728.5	706.9	676.9	675.1
40°	3566.6	1984.9	639.4	673.2	687.3	722.9	676.0	679.8	674.1	651.6	648.8
42.5°	3669.8	1840.5	616.0	665.7	663.8	673.2	621.6	636.6	645.1	628.2	625.4
45°	3769.1	1714.9	603.8	637.6	646.9	592.6	582.2	596.3	609.4	602.9	600.1
47.5°	3842.3	1606.1	597.2	599.1	625.4	565.4	548.5	555.1	571.0	573.8	572.9
50°	3864.8	1513.3	589.7	567.2	561.6	538.2	525.1	523.2	541.9	555.1	556.9
52.5°	3821.6	1430.8	570.1	539.1	511.9	515.7	511.0	501.6	520.4	538.2	540.1
55°	3757.9	1383.9	539.1	511.9	480.0	495.1	496.9	488.5	500.7	512.9	512.9
57.5°	3762.6	1411.1	509.1	486.6	451.9	471.6	481.9	478.2	478.2	487.6	488.5
60°	3793.5	1450.5	489.4	454.7	423.8	444.4	467.9	464.1	455.7	467.9	467.9
62.5°	3704.4	1398.0	476.3	423.8	393.8	418.2	446.3	444.4	435.0	454.7	456.6
65°	3441.9	1257.3	461.3	385.4	363.8	391.9	416.3	422.9	414.4	440.7	445.4
67.5°	2885.0	1057.6	432.2	348.8	333.8	360.0	383.5	392.9	386.3	417.2	421.0
70°	2150.8	856.0	386.3	308.5	297.2	320.7	342.2	346.0	346.9	383.5	387.2
72.5°	1371.7	665.7	325.3	263.5	255.0	272.8	288.8	303.8	310.3	345.0	344.1
75°	765.1	495.1	261.6	223.1	208.1	222.2	241.0	258.8	277.5	328.2	333.8
77.5°	440.7	347.8	207.2	179.1	161.3	176.3	192.2	217.5	273.8	317.8	312.2
80°	248.5	226.0	156.6	131.3	120.0	131.3	143.5	191.3	215.6	234.4	237.2
82.5°	116.3	126.6	106.9	80.6	80.6	88.1	99.4	148.1	163.1	133.1	116.3
85°	42.2	57.2	52.5	41.3	36.6	35.6	61.9	84.4	52.5	46.9	40.3
87.5°	11.3	15.9	15.0	10.3	5.6	4.7	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)