

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: P633405

Luminaire Tested: GWS-SA2E-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633405
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-SA2E-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14990.5 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

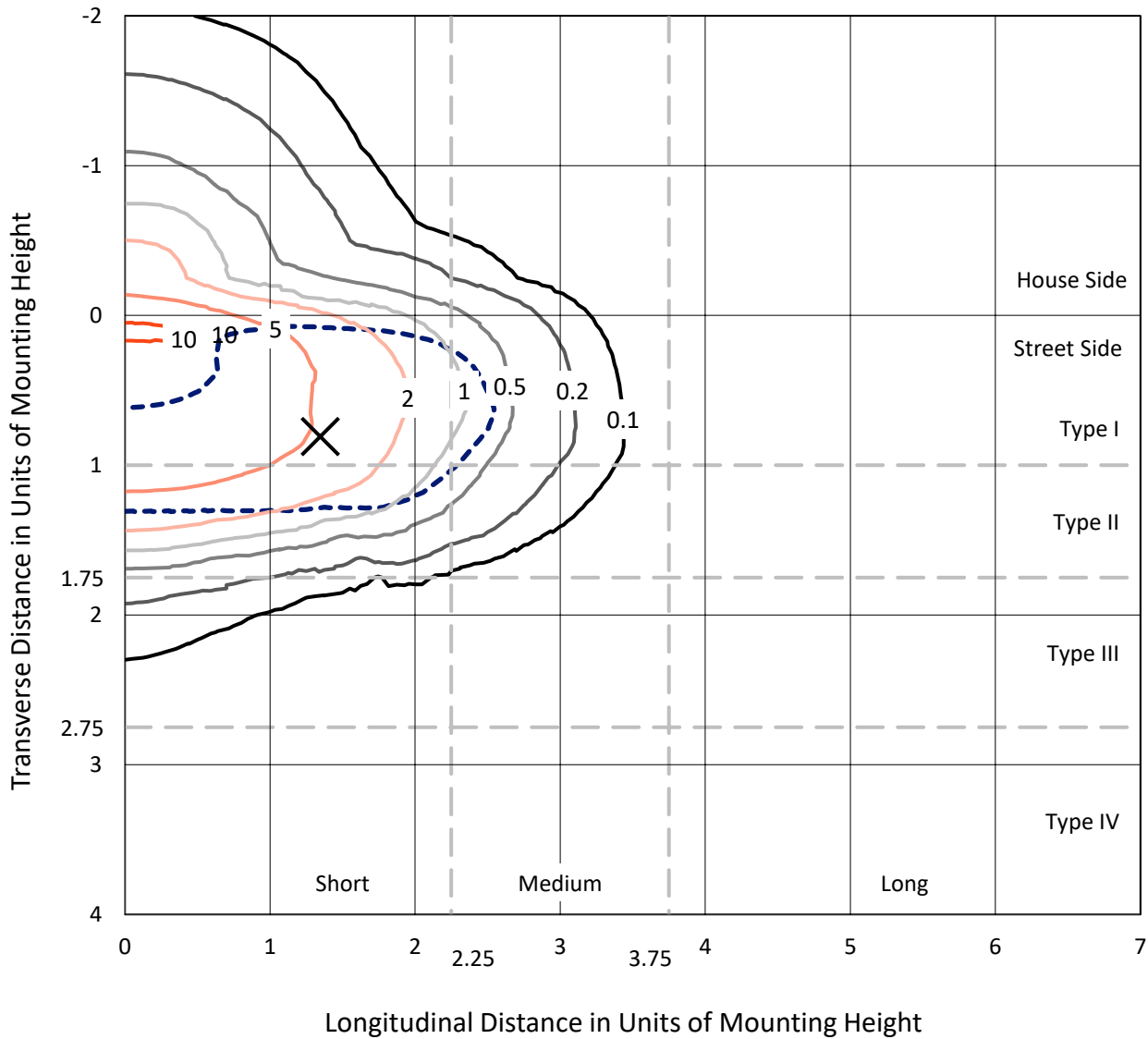
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

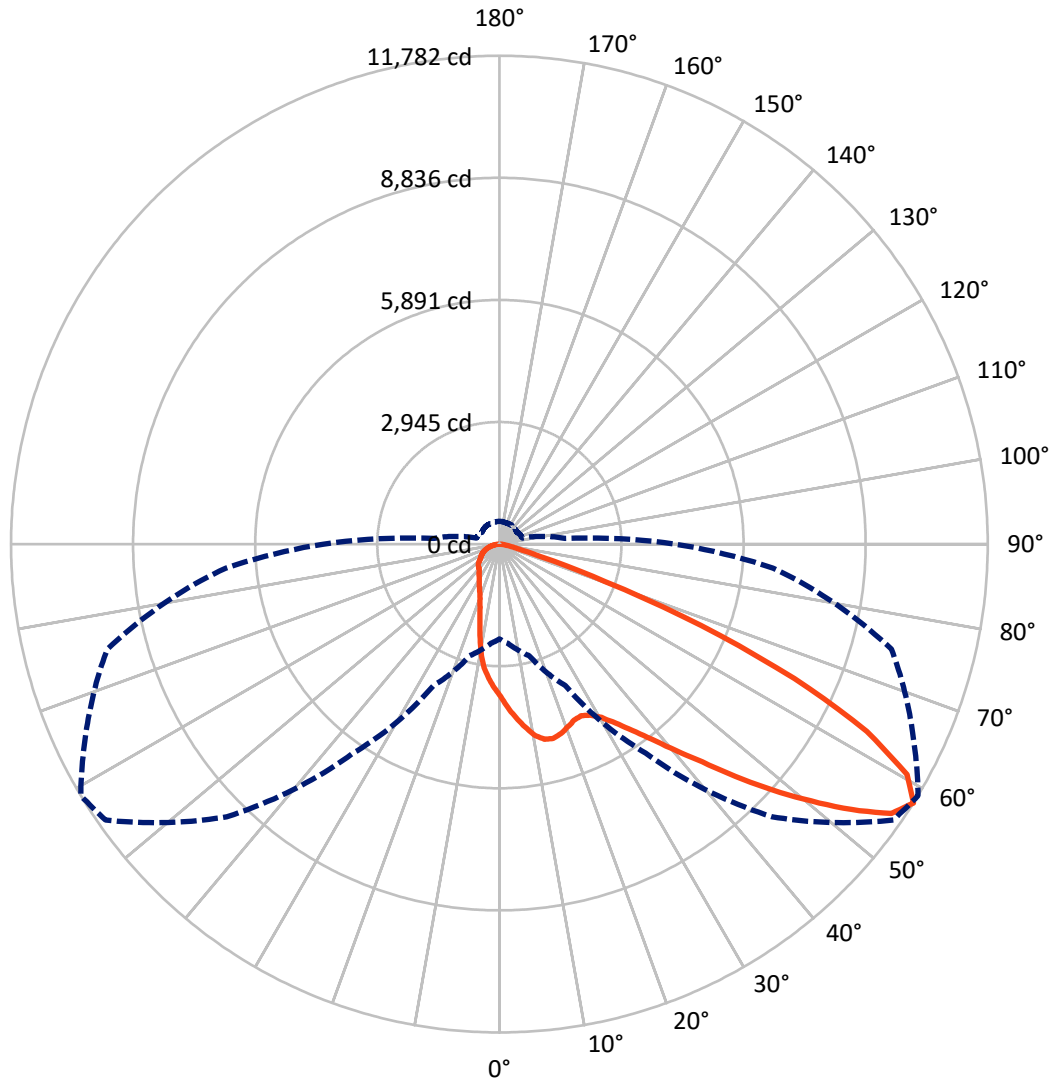
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	2326.5	0.0	2326.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12664.0	0.0	12664.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	14990.5	0.0	14990.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	2.3
10°-20°	865.8	5.8
20°-30°	1403.5	9.4
30°-40°	2257.7	15.1
40°-50°	3506.0	23.4
50°-60°	3776.5	25.2
60°-70°	2191.7	14.6
70°-80°	572.2	3.8
80°-90°	75.4	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°	14990.5	100.0
0°-180°	14990.5	100.0

Coefficient of Utilization



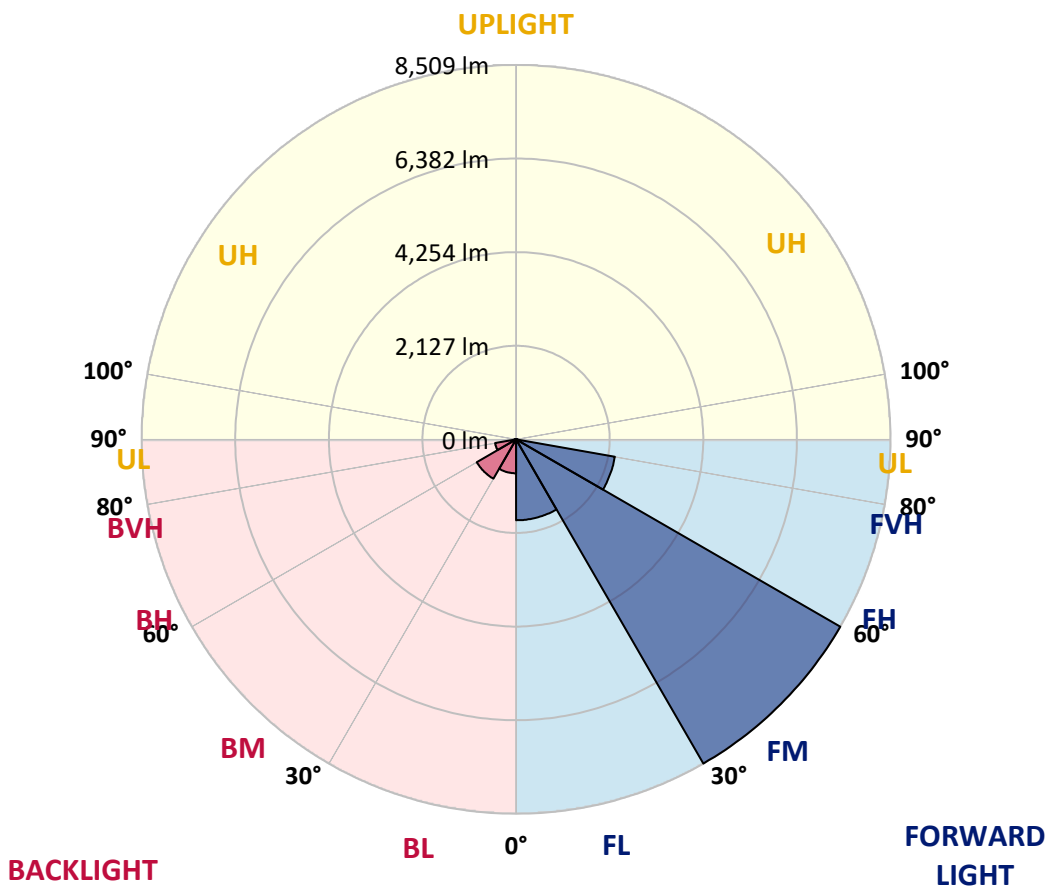
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1839.2	12.3			
FM (30°-60°)	8508.8	56.8			
FH (60°-80°)	2280.0	15.2			G2/5000
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	771.8	5.1	B2/1000		
BM (30°-60°)	1031.5	6.9	B2/2500		
BH (60°-80°)	483.9	3.2	B1/500		G1/500
BVH (80°-90°)	39.3	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°	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9
2.5°	4173.8	4138.9	4163.2	4119.9	4102.0	4054.5	3993.3	3952.1	3888.8	3806.5	3734.7
5°	4588.5	4564.2	4569.5	4523.1	4481.9	4402.8	4277.2	4207.5	4099.9	3934.2	3780.1
7.5°	4575.8	4604.3	4620.1	4660.3	4671.9	4664.5	4551.6	4454.5	4336.3	4087.2	3855.0
10°	4102.0	4155.8	4204.4	4341.5	4508.3	4719.3	4745.7	4687.7	4568.4	4282.5	3944.8
12.5°	3585.9	3627.1	3670.4	3835.0	4090.4	4512.5	4798.5	4834.4	4786.9	4475.6	4046.1
15°	3332.7	3351.7	3392.8	3501.5	3705.2	4173.8	4706.7	4863.9	4949.4	4680.3	4160.0
17.5°	3322.1	3330.6	3350.6	3408.7	3550.1	3912.0	4541.0	4804.8	5077.1	4896.6	4293.0
20°	3540.6	3518.4	3505.7	3504.7	3574.3	3824.4	4380.6	4709.9	5137.3	5118.3	4435.5
22.5°	3843.4	3850.8	3823.4	3755.9	3747.4	3886.7	4300.4	4613.8	5155.2	5314.5	4567.4
25°	4273.0	4309.9	4228.6	4099.9	4036.6	4067.2	4350.0	4584.3	5153.1	5478.1	4649.7
27.5°	4774.2	4802.7	4720.4	4551.6	4420.7	4346.8	4497.7	4671.9	5171.0	5619.5	4699.3
30°	5345.1	5354.6	5241.7	5064.4	4873.4	4715.1	4743.6	4852.3	5262.8	5805.3	4757.3
32.5°	6042.7	6082.8	5911.8	5631.1	5364.1	5161.5	5073.9	5143.6	5461.2	6024.8	4847.0
35°	6928.1	6941.8	6724.4	6322.4	5944.6	5663.9	5480.2	5517.2	5763.1	6331.9	4982.1
37.5°	7762.9	7776.6	7545.5	7171.9	6631.6	6247.4	5981.5	5964.6	6149.3	6765.6	5202.7
40°	8292.6	8331.7	8228.3	7994.0	7477.9	6959.8	6598.9	6540.8	6655.8	7296.4	5509.8
42.5°	8577.6	8594.4	8592.3	8622.9	8315.8	7800.9	7295.4	7179.3	7256.3	7869.5	5820.0
45°	8579.7	8621.9	8734.8	9029.2	9043.0	8722.1	8175.5	7994.0	7923.3	8446.7	6144.0
47.5°	8195.5	8240.9	8551.2	9130.5	9557.9	9630.8	9229.7	8865.7	8568.1	8943.8	6410.0
50°	7032.6	7146.6	7737.5	8762.2	9659.3	10358.9	10235.5	9741.6	9141.1	9327.9	6576.7
52.5°	6022.7	6018.4	6382.5	7721.7	9236.1	10679.7	11208.5	10642.8	9707.8	9571.7	6618.9
55°	4410.1	4434.4	4806.9	5905.5	8106.9	10369.5	11743.5	11472.3	10357.9	9701.5	6602.0
57.5°	2286.9	2407.2	2789.2	3768.5	6159.8	9301.5	11601.0	11781.5	11018.5	9793.3	6624.2
60°	1155.6	1132.3	1269.5	1799.3	3569.1	7264.8	10723.0	11298.2	11137.7	9865.0	6637.9
62.5°	771.4	765.1	727.1	833.7	1458.4	4302.5	9141.1	9947.4	10309.3	9696.2	6462.7
65°	668.0	655.3	585.7	581.5	708.1	1784.5	6700.2	7819.9	8520.6	8945.9	6043.8
67.5°	601.5	582.5	511.8	477.0	508.7	784.1	3775.9	5244.9	6291.8	7565.5	5125.6
70°	537.2	527.7	456.9	406.3	403.1	478.1	1390.9	2706.9	3849.8	5161.5	3747.4
72.5°	481.2	464.3	404.2	355.6	331.4	338.8	603.6	1042.6	1992.4	3219.8	2241.5
75°	416.8	404.2	351.4	302.9	273.3	248.0	368.3	482.3	908.6	1530.2	1058.5
77.5°	321.9	313.4	277.5	240.6	223.7	184.7	223.7	303.9	420.0	644.8	550.9
80°	186.8	192.1	206.8	187.8	164.6	131.9	145.6	175.2	252.2	349.3	312.4
82.5°	93.9	100.3	134.0	108.7	98.1	77.0	86.5	103.4	131.9	193.1	122.4
85°	7.4	7.4	24.3	27.4	33.8	27.4	34.8	42.2	60.2	77.0	41.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	5.3	9.5	17.9	11.6
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°	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9
2.5°	3686.2	3632.4	3568.0	3515.2	3434.0	3390.7	3335.8	3268.3	3240.9	3228.2	3220.8
5°	3693.6	3598.6	3461.4	3334.8	3194.4	3083.6	2960.1	2831.4	2757.5	2739.6	2726.9
7.5°	3721.0	3588.1	3369.6	3160.7	2900.0	2658.3	2423.0	2189.8	2070.5	2025.1	2020.9
10°	3759.0	3583.8	3276.7	2929.5	2489.5	2107.5	1832.0	1649.5	1572.4	1547.1	1538.6
12.5°	3806.5	3580.7	3154.3	2608.7	2015.6	1654.7	1497.5	1467.9	1478.5	1476.4	1476.4
15°	3866.7	3584.9	3006.6	2245.7	1630.5	1436.3	1439.4	1474.3	1507.0	1512.3	1512.3
17.5°	3932.1	3580.7	2792.4	1881.6	1399.3	1384.6	1433.1	1481.7	1511.2	1515.4	1515.4
20°	4002.8	3560.6	2522.2	1538.6	1298.0	1351.9	1404.6	1442.6	1460.5	1464.8	1464.8
22.5°	4045.0	3503.6	2228.8	1302.3	1233.7	1300.1	1335.0	1374.0	1376.1	1342.4	1341.3
25°	4038.7	3397.0	1894.3	1150.3	1165.1	1223.1	1267.4	1240.0	1206.2	1187.2	1184.1
27.5°	3998.6	3236.6	1553.4	1035.3	1083.8	1149.2	1135.5	1112.3	1103.9	1082.7	1080.6
30°	3947.9	3039.3	1247.4	945.6	999.4	1059.5	1038.4	1036.3	1027.9	1004.7	1004.7
32.5°	3899.4	2835.6	1016.3	879.1	945.6	949.8	979.3	981.4	977.2	937.1	932.9
35°	3885.7	2631.9	860.1	826.3	892.8	890.7	932.9	931.8	859.0	803.1	802.0
37.5°	3926.8	2425.1	767.2	783.0	820.0	847.4	881.2	820.0	795.7	761.9	759.8
40°	4014.4	2234.1	719.7	757.7	773.5	813.6	760.9	765.1	758.8	733.4	730.3
42.5°	4130.5	2071.6	693.3	749.3	747.2	757.7	699.7	716.6	726.1	707.1	703.9
45°	4242.3	1930.2	679.6	717.6	728.2	667.0	655.3	671.2	686.0	678.6	675.4
47.5°	4324.7	1807.7	672.2	674.3	703.9	636.4	617.4	624.7	642.7	645.9	644.8
50°	4350.0	1703.3	663.8	638.5	632.1	605.7	591.0	588.9	610.0	624.7	626.9
52.5°	4301.4	1610.4	641.6	606.8	576.2	580.4	575.1	564.6	585.7	605.7	607.9
55°	4229.7	1557.6	606.8	576.2	540.3	557.2	559.3	549.8	563.5	577.3	577.3
57.5°	4235.0	1588.2	573.0	547.7	508.7	530.8	542.4	538.2	538.2	548.8	549.8
60°	4269.8	1632.6	550.9	511.8	477.0	500.2	526.6	522.4	512.9	526.6	526.6
62.5°	4169.5	1573.5	536.1	477.0	443.2	470.7	502.3	500.2	489.7	511.8	513.9
65°	3874.0	1415.2	519.2	433.7	409.5	441.1	468.6	475.9	466.4	496.0	501.3
67.5°	3247.2	1190.4	486.5	392.6	375.7	405.2	431.6	442.2	434.8	469.6	473.8
70°	2420.9	963.5	434.8	347.2	334.5	360.9	385.2	389.4	390.5	431.6	435.8
72.5°	1543.9	749.3	366.2	296.5	287.0	307.1	325.0	341.9	349.3	388.4	387.3
75°	861.1	557.2	294.4	251.2	234.3	250.1	271.2	291.3	312.4	369.4	375.7
77.5°	496.0	391.5	233.2	201.6	181.5	198.4	216.3	244.8	308.2	357.8	351.4
80°	279.7	254.3	176.2	147.7	135.1	147.7	161.5	215.3	242.7	263.8	267.0
82.5°	130.9	142.5	120.3	90.8	90.8	99.2	111.9	166.7	183.6	149.9	130.9
85°	47.5	64.4	59.1	46.4	41.2	40.1	69.7	95.0	59.1	52.8	45.4
87.5°	12.7	17.9	16.9	11.6	6.3	5.3	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)