

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: P634725

Luminaire Tested: GWS-SA3C-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634725
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-SA3C-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14010.3 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

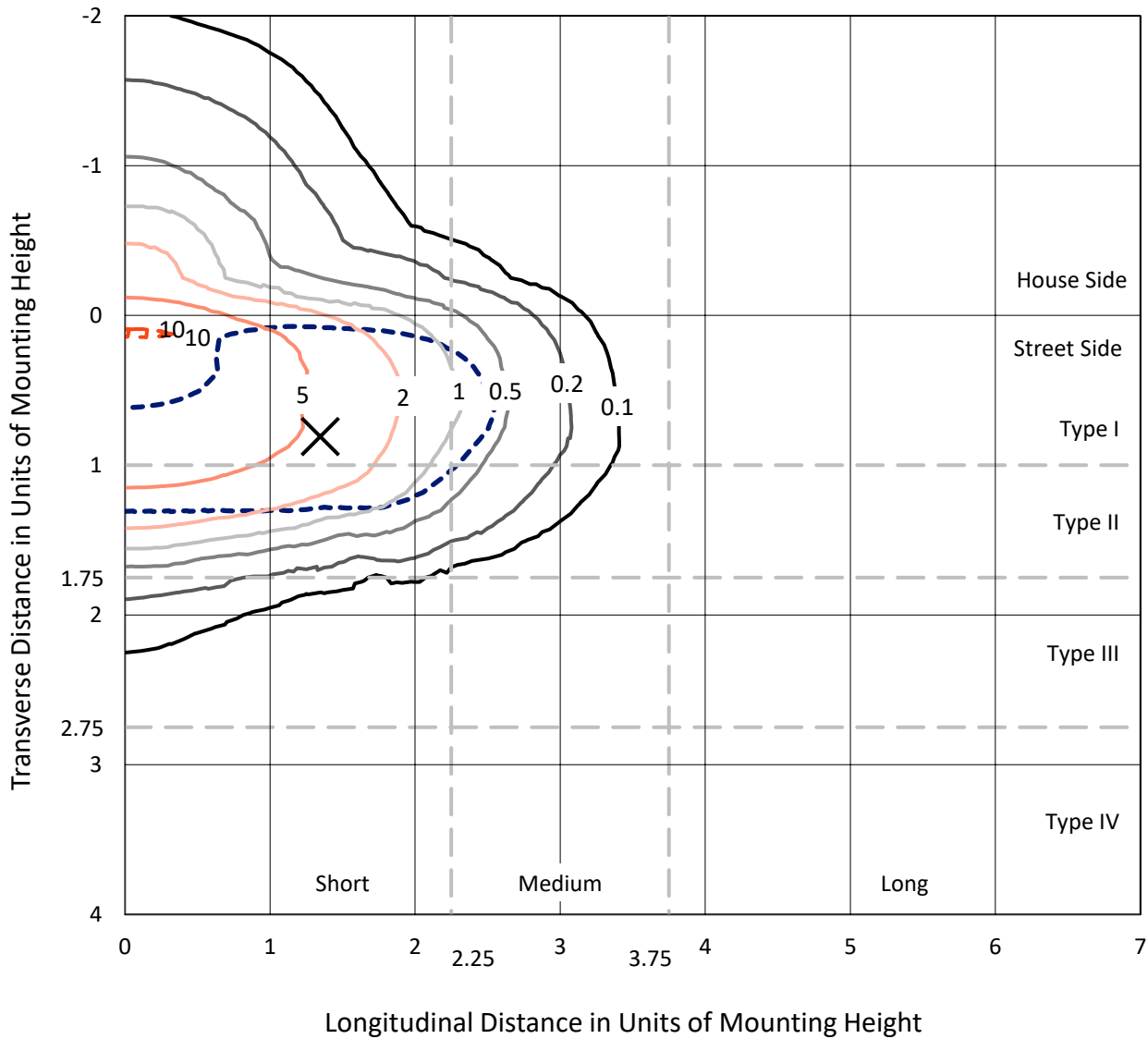
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

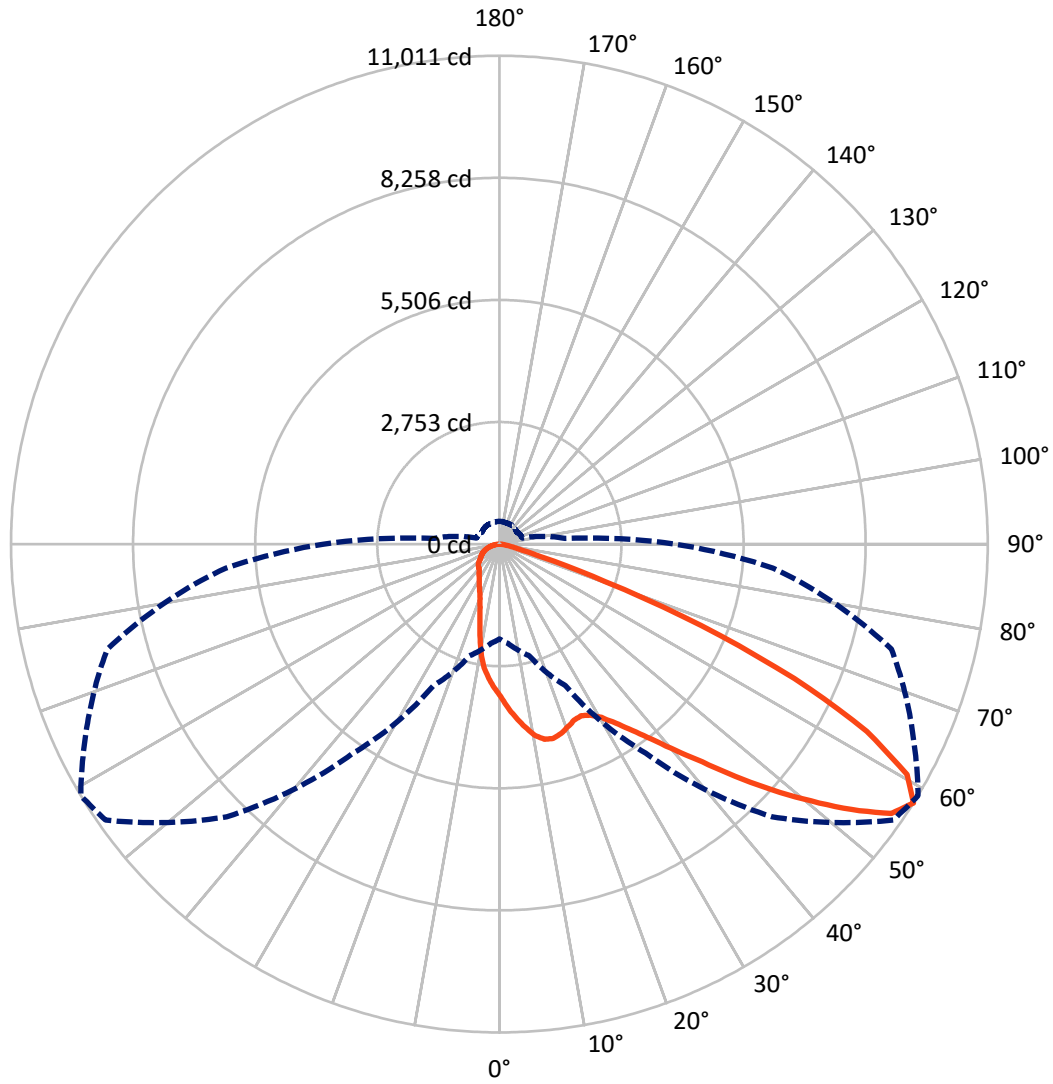
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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	2174.3	0.0	2174.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11836.0	0.0	11836.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	14010.3	0.0	14010.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	2.3
10°-20°	809.2	5.8
20°-30°	1311.7	9.4
30°-40°	2110.1	15.1
40°-50°	3276.8	23.4
50°-60°	3529.5	25.2
60°-70°	2048.4	14.6
70°-80°	534.8	3.8
80°-90°	70.4	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°	14010.3	100.0
0°-180°	14010.3	100.0

Coefficient of Utilization



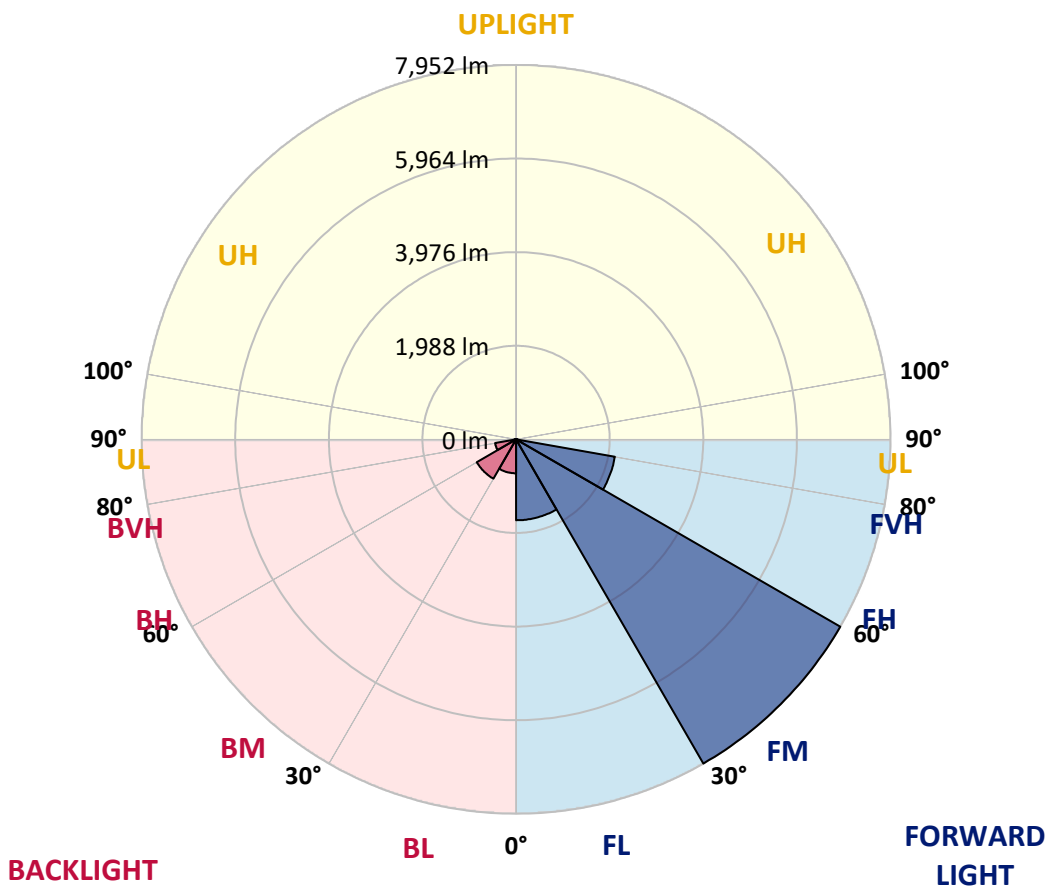
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.9	12.3			
FM (30°-60°)	7952.4	56.8			
FH (60°-80°)	2130.9	15.2			G2/5000
FVH (80°-90°)	33.7	0.2			G1/100
BL (0°-30°)	721.4	5.1	B2/1000		
BM (30°-60°)	964.0	6.9	B1/1000		
BH (60°-80°)	452.3	3.2	B1/500		G1/500
BVH (80°-90°)	36.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2
2.5°	3900.8	3868.3	3891.0	3850.5	3833.8	3789.4	3732.2	3693.7	3634.5	3557.6	3490.5
5°	4288.5	4265.8	4270.7	4227.3	4188.8	4114.9	3997.5	3932.4	3831.8	3676.9	3532.9
7.5°	4276.6	4303.3	4318.0	4355.5	4366.4	4359.5	4253.9	4163.2	4052.7	3820.0	3603.0
10°	3833.8	3884.1	3929.4	4057.7	4213.5	4410.8	4435.4	4381.2	4269.7	4002.4	3686.8
12.5°	3351.5	3389.9	3430.4	3584.2	3822.9	4217.4	4484.7	4518.3	4473.9	4182.9	3781.5
15°	3114.8	3132.5	3171.0	3272.6	3462.9	3900.8	4398.9	4545.9	4625.8	4374.3	3888.0
17.5°	3104.9	3112.8	3131.5	3185.8	3317.9	3656.2	4244.1	4490.7	4745.1	4576.5	4012.3
20°	3309.1	3288.3	3276.5	3275.5	3340.6	3574.4	4094.2	4401.9	4801.3	4783.6	4145.4
22.5°	3592.1	3599.0	3573.4	3510.3	3502.4	3632.6	4019.2	4312.1	4818.1	4967.0	4268.7
25°	3993.6	4028.1	3952.1	3831.8	3772.6	3801.2	4065.6	4284.5	4816.1	5119.9	4345.7
27.5°	4462.0	4488.7	4411.7	4253.9	4131.6	4062.6	4203.6	4366.4	4832.9	5252.1	4392.0
30°	4995.6	5004.5	4899.0	4733.3	4554.8	4406.8	4433.4	4535.0	4918.7	5425.7	4446.3
32.5°	5647.6	5685.1	5525.3	5262.9	5013.4	4824.0	4742.2	4807.3	5104.1	5630.8	4530.1
35°	6475.1	6487.9	6284.7	5909.0	5555.9	5293.5	5121.9	5156.4	5386.2	5917.8	4656.3
37.5°	7255.3	7268.1	7052.1	6702.9	6197.9	5838.9	5590.4	5574.6	5747.2	6323.2	4862.5
40°	7750.4	7786.9	7690.2	7471.3	6989.0	6504.7	6167.4	6113.1	6220.6	6819.3	5149.5
42.5°	8016.7	8032.5	8030.5	8059.1	7772.1	7290.8	6818.3	6709.8	6781.8	7354.9	5439.5
45°	8018.7	8058.1	8163.7	8438.8	8451.7	8151.8	7640.9	7471.3	7405.2	7894.4	5742.3
47.5°	7659.7	7702.1	7992.0	8533.5	8933.0	9001.0	8626.2	8286.0	8007.8	8358.9	5990.8
50°	6572.7	6679.3	7231.6	8189.3	9027.7	9681.6	9566.2	9104.6	8543.4	8718.0	6146.7
52.5°	5628.8	5624.9	5965.2	7216.8	8632.1	9981.4	10475.6	9946.9	9073.0	8945.8	6186.1
55°	4121.8	4144.5	4492.6	5519.4	7576.8	9691.4	10975.6	10722.1	9680.6	9067.1	6170.3
57.5°	2137.3	2249.8	2606.8	3522.1	5757.1	8693.3	10842.5	11011.1	10298.0	9152.9	6191.0
60°	1080.0	1058.3	1186.5	1681.7	3335.7	6789.7	10021.9	10559.4	10409.5	9220.0	6203.9
62.5°	721.0	715.1	679.6	779.2	1363.1	4021.2	8543.4	9296.9	9635.2	9062.2	6040.1
65°	624.3	612.5	547.4	543.5	661.8	1667.8	6262.1	7308.5	7963.4	8360.9	5648.6
67.5°	562.2	544.4	478.4	445.8	475.4	732.8	3529.0	4901.9	5880.4	7070.8	4790.5
70°	502.0	493.2	427.1	379.7	376.8	446.8	1300.0	2529.9	3598.0	4824.0	3502.4
72.5°	449.8	434.0	377.8	332.4	309.7	316.6	564.2	974.5	1862.1	3009.2	2094.9
75°	389.6	377.8	328.4	283.1	255.5	231.8	344.2	450.7	849.2	1430.1	989.3
77.5°	300.8	292.9	259.4	224.9	209.1	172.6	209.1	284.1	392.5	602.6	514.9
80°	174.6	179.5	193.3	175.6	153.9	123.3	136.1	163.7	235.7	326.5	291.9
82.5°	87.8	93.7	125.3	101.6	91.7	72.0	80.9	96.7	123.3	180.5	114.4
85°	6.9	6.9	22.7	25.6	31.6	25.6	32.5	39.5	56.2	72.0	38.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.9	8.9	16.8	10.8
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°	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2	3439.2
2.5°	3445.2	3394.9	3334.7	3285.4	3209.4	3169.0	3117.7	3054.6	3028.9	3017.1	3010.2
5°	3452.1	3363.3	3235.1	3116.7	2985.5	2882.0	2766.6	2646.3	2577.2	2560.4	2548.6
7.5°	3477.7	3353.4	3149.3	2954.0	2710.4	2484.5	2264.6	2046.6	1935.1	1892.7	1888.8
10°	3513.2	3349.5	3062.5	2738.0	2326.7	1969.7	1712.2	1541.6	1469.6	1445.9	1438.0
12.5°	3557.6	3346.5	2948.1	2438.1	1883.8	1546.5	1399.6	1372.0	1381.8	1379.8	1379.8
15°	3613.8	3350.5	2810.0	2098.9	1523.8	1342.4	1345.3	1377.9	1408.4	1413.4	1413.4
17.5°	3675.0	3346.5	2609.8	1758.6	1307.8	1294.0	1339.4	1384.8	1412.4	1416.3	1416.3
20°	3741.1	3327.8	2357.3	1438.0	1213.2	1263.5	1312.8	1348.3	1365.0	1369.0	1369.0
22.5°	3780.5	3274.5	2083.1	1217.1	1153.0	1215.1	1247.7	1284.2	1286.1	1254.6	1253.6
25°	3774.6	3174.9	1770.4	1075.1	1088.9	1143.1	1184.6	1158.9	1127.3	1109.6	1106.6
27.5°	3737.1	3025.0	1451.8	967.6	1012.9	1074.1	1061.3	1039.6	1031.7	1011.9	1010.0
30°	3689.8	2840.6	1165.8	883.7	934.0	990.3	970.5	968.6	960.7	939.0	939.0
32.5°	3644.4	2650.2	949.8	821.6	883.7	887.7	915.3	917.3	913.3	875.8	871.9
35°	3631.6	2459.8	803.8	772.3	834.4	832.4	871.9	870.9	802.9	750.6	749.6
37.5°	3670.0	2266.5	717.0	731.8	766.4	792.0	823.6	766.4	743.7	712.1	710.1
40°	3751.9	2088.0	672.7	708.2	723.0	760.4	711.1	715.1	709.2	685.5	682.5
42.5°	3860.4	1936.1	648.0	700.3	698.3	708.2	653.9	669.7	678.6	660.8	657.9
45°	3964.9	1804.0	635.2	670.7	680.6	623.3	612.5	627.3	641.1	634.2	631.2
47.5°	4041.9	1689.5	628.3	630.2	657.9	594.7	577.0	583.9	600.7	603.6	602.6
50°	4065.6	1591.9	620.4	596.7	590.8	566.1	552.3	550.4	570.1	583.9	585.9
52.5°	4020.2	1505.1	599.7	567.1	538.5	542.5	537.5	527.7	547.4	566.1	568.1
55°	3953.1	1455.8	567.1	538.5	505.0	520.8	522.7	513.9	526.7	539.5	539.5
57.5°	3958.0	1484.4	535.6	511.9	475.4	496.1	507.0	503.0	503.0	512.9	513.9
60°	3990.6	1525.8	514.9	478.4	445.8	467.5	492.2	488.2	479.3	492.2	492.2
62.5°	3896.9	1470.6	501.0	445.8	414.2	439.9	469.5	467.5	457.6	478.4	480.3
65°	3620.7	1322.6	485.3	405.4	382.7	412.3	437.9	444.8	435.9	463.6	468.5
67.5°	3034.9	1112.6	454.7	366.9	351.1	378.7	403.4	413.3	406.4	438.9	442.9
70°	2262.6	900.5	406.4	324.5	312.7	337.3	360.0	363.9	364.9	403.4	407.3
72.5°	1443.0	700.3	342.2	277.2	268.3	287.0	303.8	319.6	326.5	363.0	362.0
75°	804.8	520.8	275.2	234.7	219.0	233.8	253.5	272.2	291.9	345.2	351.1
77.5°	463.6	365.9	218.0	188.4	169.6	185.4	202.2	228.8	288.0	334.4	328.4
80°	261.4	237.7	164.7	138.1	126.2	138.1	150.9	201.2	226.9	246.6	249.5
82.5°	122.3	133.2	112.4	84.8	84.8	92.7	104.5	155.8	171.6	140.1	122.3
85°	44.4	60.2	55.2	43.4	38.5	37.5	65.1	88.8	55.2	49.3	42.4
87.5°	11.8	16.8	15.8	10.8	5.9	4.9	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)