

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: P632335

Luminaire Tested: GWS-SA2C-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9437.4 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

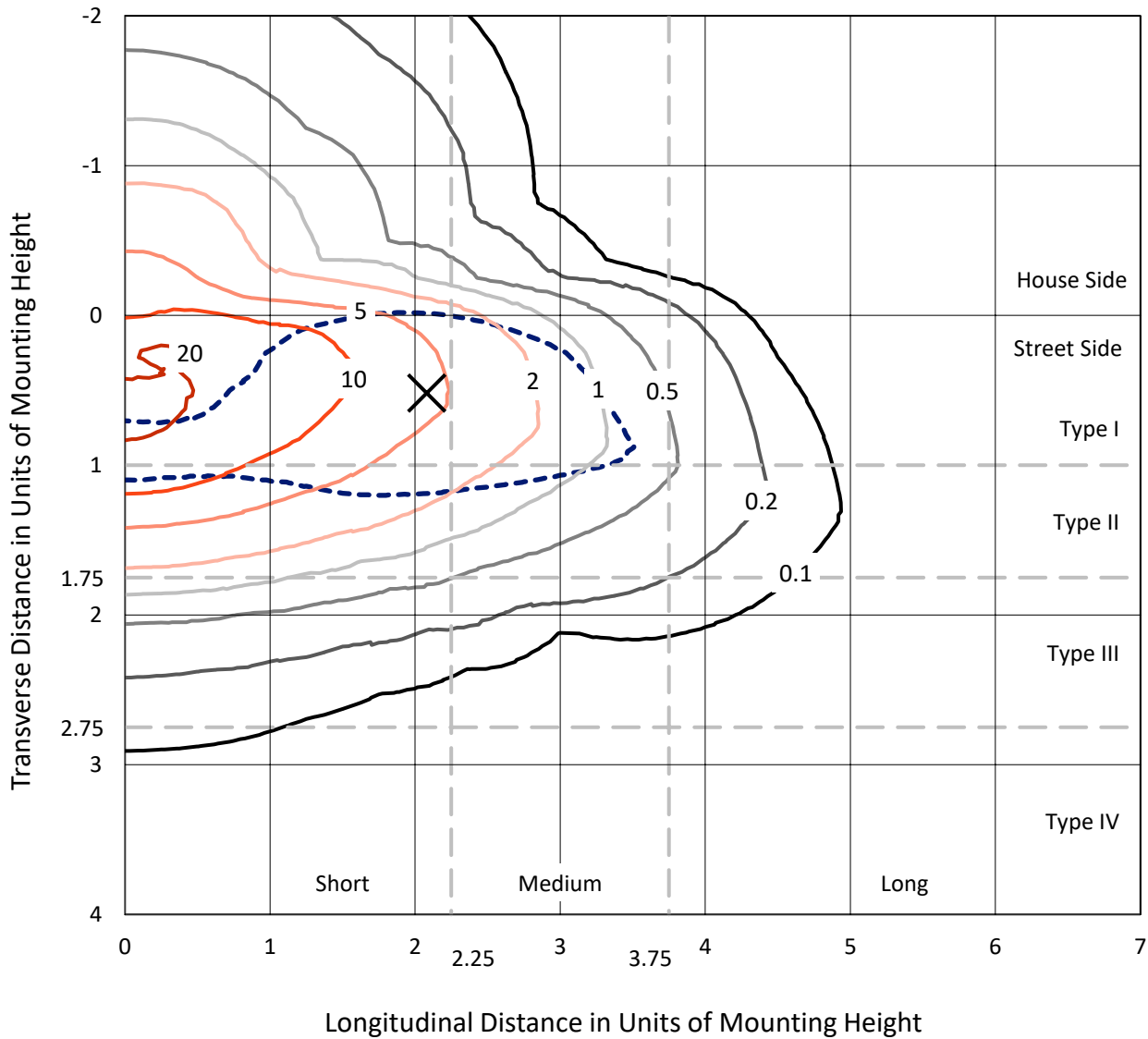
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

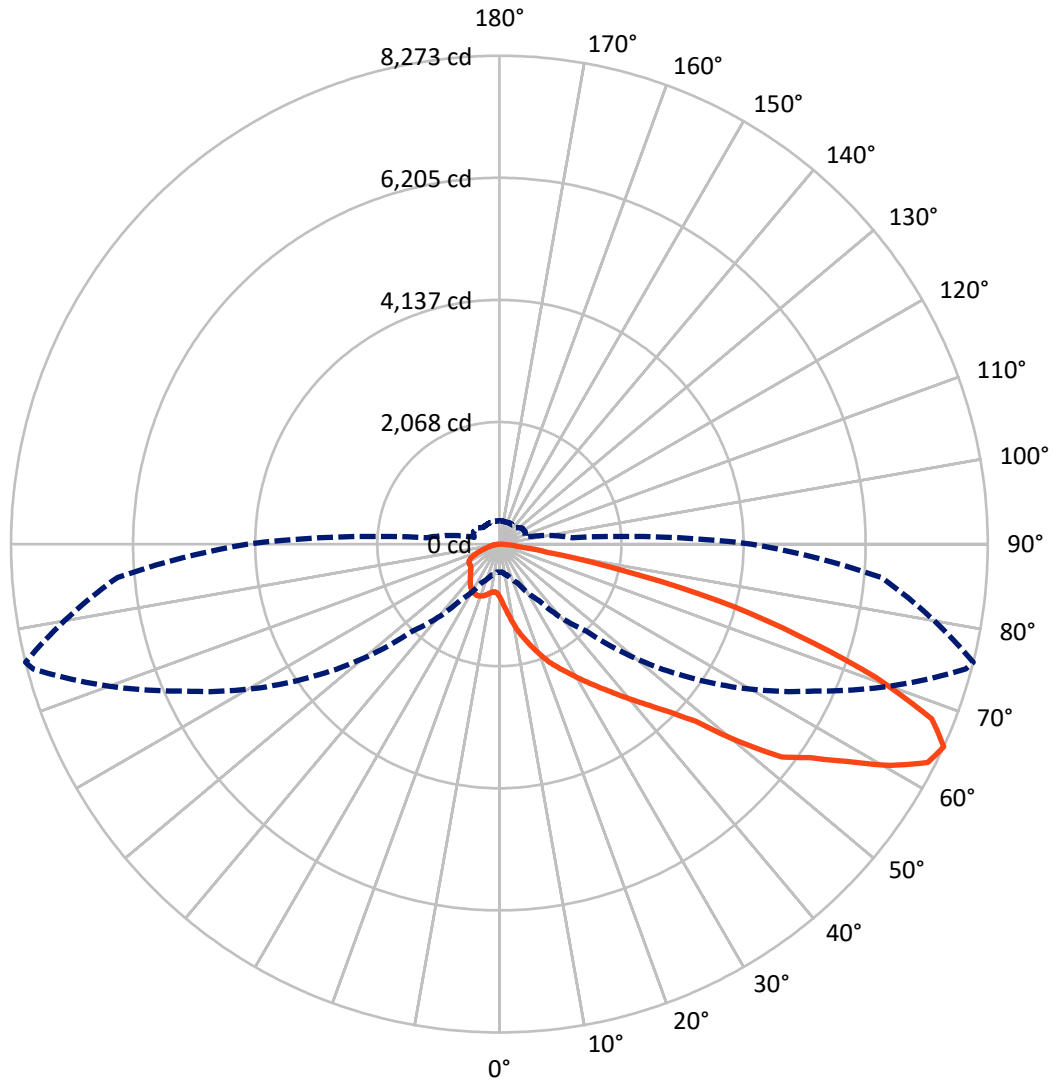
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1577.5	0.0	1577.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	7859.9	0.0	7859.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	9437.4	0.0	9437.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.1
10°-20°	404.4	4.3
20°-30°	788.1	8.4
30°-40°	1318.1	14.0
40°-50°	1887.3	20.0
50°-60°	2234.3	23.7
60°-70°	1857.8	19.7
70°-80°	760.3	8.1
80°-90°	80.9	0.9
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°	9437.4	100.0
0°-180°	9437.4	100.0

Coefficient of Utilization



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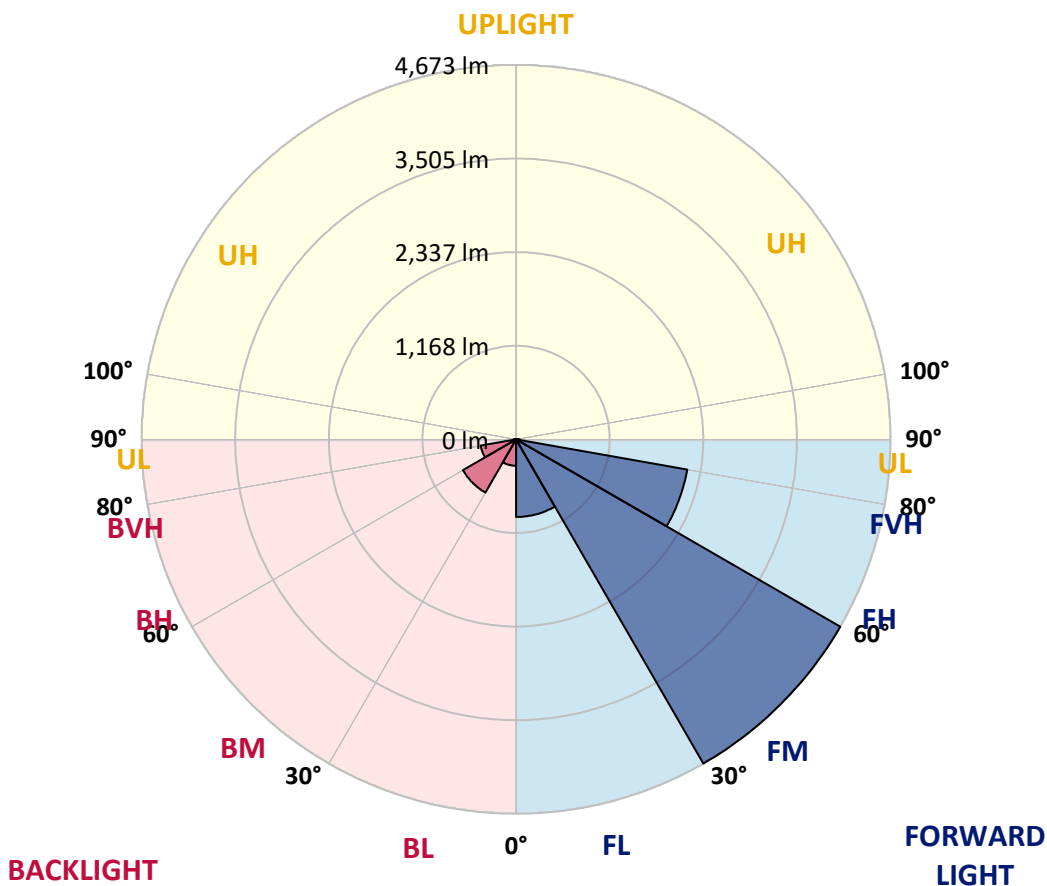
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.7	10.3			
FM (30°-60°)	4673.0	49.5			
FH (60°-80°)	2169.9	23.0			G2/5000
FVH (80°-90°)	48.3	0.5			G1/100
BL (0°-30°)	330.0	3.5	B1/500		
BM (30°-60°)	766.6	8.1	B1/1000		
BH (60°-80°)	448.2	4.7	B1/500		G1/500
BVH (80°-90°)	32.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7
2.5°	1252.6	1257.3	1242.0	1236.7	1200.9	1152.4	1112.0	1050.9	994.5	985.9	935.5
5°	1591.0	1571.1	1553.8	1542.6	1492.8	1437.7	1352.1	1237.4	1117.3	1102.7	993.9
7.5°	1792.0	1788.7	1767.5	1760.8	1722.4	1667.3	1579.0	1436.4	1261.9	1238.0	1072.8
10°	1953.2	1951.2	1940.6	1946.6	1911.4	1857.7	1772.1	1624.8	1420.5	1396.6	1161.1
12.5°	2093.9	2097.2	2095.2	2117.1	2099.2	2057.4	1968.5	1806.6	1579.0	1553.2	1268.5
15°	2196.7	2199.4	2209.3	2257.1	2267.1	2258.4	2168.2	1985.1	1735.6	1698.5	1379.3
17.5°	2225.9	2231.2	2255.1	2332.1	2385.8	2421.6	2354.6	2166.9	1889.5	1849.1	1492.1
20°	2265.1	2271.0	2294.9	2375.2	2454.2	2535.8	2523.8	2351.3	2044.8	2011.6	1606.2
22.5°	2446.2	2441.5	2430.9	2469.4	2525.8	2627.3	2657.2	2528.5	2205.4	2173.5	1732.3
25°	2795.2	2786.6	2718.9	2683.7	2665.1	2726.8	2779.9	2689.7	2361.9	2314.2	1849.7
27.5°	3180.0	3175.3	3089.1	3005.5	2891.4	2864.8	2896.0	2830.3	2513.9	2465.4	1951.9
30°	3544.2	3530.3	3440.1	3335.2	3182.6	3068.5	3022.7	2968.3	2680.4	2630.0	2071.3
32.5°	3870.0	3852.1	3745.9	3629.8	3469.9	3335.2	3198.6	3115.0	2868.8	2810.4	2193.4
35°	4137.4	4119.5	4010.6	3887.2	3711.4	3611.9	3424.8	3274.2	3060.6	3001.5	2337.4
37.5°	4344.4	4327.8	4214.3	4092.9	3939.7	3860.7	3698.2	3453.3	3281.5	3219.8	2490.0
40°	4460.5	4448.5	4357.6	4261.4	4132.7	4064.4	3991.4	3679.6	3529.0	3467.3	2669.8
42.5°	4495.6	4487.7	4424.0	4374.2	4287.3	4235.6	4277.4	3945.6	3793.0	3739.3	2872.1
45°	4407.4	4407.4	4388.8	4414.0	4418.0	4417.3	4564.0	4246.2	4117.5	4058.4	3157.4
47.5°	4181.8	4196.4	4223.6	4347.7	4478.4	4587.9	4899.0	4646.9	4534.8	4486.3	3561.5
50°	3769.1	3809.0	3901.8	4144.0	4422.0	4700.6	5216.2	5239.4	5346.2	5260.6	4155.9
52.5°	3164.7	3158.8	3395.6	3740.6	4164.6	4705.3	5390.7	5762.2	6049.5	5990.4	4597.8
55°	2515.2	2505.2	2726.2	3201.9	3769.8	4527.5	5495.5	6001.7	6439.6	6386.5	4995.2
57.5°	1926.0	1913.4	2109.8	2539.1	3212.5	4150.0	5475.6	6287.0	6976.3	6949.1	5535.3
60°	1325.6	1310.3	1494.1	1869.6	2553.0	3572.8	5255.3	6433.6	7604.6	7613.9	6113.2
62.5°	796.2	787.5	920.9	1212.1	1836.5	2857.5	4739.8	6344.7	8104.9	8146.7	6484.7
65°	480.3	474.4	552.7	723.2	1165.0	2085.3	3945.0	5890.2	8177.2	8273.4	6493.3
67.5°	349.6	350.3	372.9	440.5	679.4	1346.8	2960.4	5075.5	7800.4	7899.9	6084.0
70°	303.9	305.2	317.1	332.4	410.7	770.9	1924.7	4006.7	6686.4	6763.4	5102.7
72.5°	270.0	270.0	278.0	286.0	321.1	469.7	1031.0	2800.5	5277.2	5297.8	3894.5
75°	237.5	235.5	239.5	243.5	278.7	328.4	501.6	1951.2	3897.9	3850.1	2517.2
77.5°	189.1	187.1	187.8	191.7	223.6	234.9	254.1	1218.8	2196.7	2073.3	1112.0
80°	134.7	133.4	140.7	150.6	165.2	144.0	159.2	589.8	871.1	810.8	431.3
82.5°	80.3	82.9	94.2	102.2	114.1	90.2	102.8	197.0	308.5	300.5	175.2
85°	11.3	11.9	33.8	39.1	49.1	35.2	54.4	88.9	123.4	132.0	61.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	15.9	35.2	35.8	15.3
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°	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7
2.5°	909.6	878.4	834.0	796.8	765.6	740.4	719.2	703.3	698.6	692.0	692.0
5°	942.8	886.4	806.8	750.4	717.9	698.6	685.4	678.7	675.4	671.4	669.4
7.5°	988.6	909.6	802.1	745.1	719.9	707.9	699.3	695.3	692.7	688.7	688.7
10°	1051.6	944.1	816.7	763.6	743.7	731.8	721.8	715.2	709.2	703.3	701.9
12.5°	1119.9	989.2	843.3	788.9	767.6	753.0	739.1	729.1	721.8	714.6	712.6
15°	1195.6	1035.7	871.8	813.4	786.9	767.0	750.4	735.1	725.2	714.6	713.2
17.5°	1269.9	1082.8	895.7	830.0	796.2	771.6	747.7	727.8	715.2	703.3	700.0
20°	1358.8	1129.9	912.3	834.6	794.2	761.7	733.1	707.9	694.0	680.1	678.1
22.5°	1440.4	1173.7	920.2	828.0	778.9	740.4	707.3	680.1	664.8	650.9	648.2
25°	1519.3	1212.1	916.9	812.1	755.7	711.2	676.7	649.5	634.9	620.3	616.4
27.5°	1595.6	1238.0	903.6	787.5	726.5	678.7	645.6	621.0	608.4	595.8	590.5
30°	1670.6	1261.9	883.1	755.7	689.3	644.9	617.7	600.4	587.8	574.6	570.6
32.5°	1746.2	1279.2	851.9	718.5	651.5	615.0	598.4	585.8	572.6	559.3	555.3
35°	1822.5	1286.5	814.1	676.1	619.7	595.8	589.8	575.2	557.3	541.4	536.1
37.5°	1913.4	1293.1	767.0	634.3	591.8	586.5	585.2	563.3	542.1	520.2	514.2
40°	2022.9	1301.7	718.5	596.5	569.3	583.2	577.9	548.0	505.6	484.3	477.7
42.5°	2156.9	1317.6	668.1	562.0	552.7	570.6	564.6	510.9	482.3	470.4	467.1
45°	2354.0	1376.0	617.7	534.8	540.1	552.7	543.4	489.0	477.7	469.7	465.8
47.5°	2704.9	1465.6	573.9	514.2	530.1	536.7	500.9	483.0	474.4	463.8	459.1
50°	3069.9	1504.7	538.7	501.6	518.8	522.1	477.7	475.0	469.1	457.8	453.1
52.5°	3316.7	1499.4	517.5	496.9	509.5	496.9	467.1	466.4	462.4	449.2	443.9
55°	3595.3	1508.7	508.2	498.3	505.6	454.5	453.8	455.8	453.8	439.2	436.6
57.5°	3971.5	1537.2	503.6	502.9	502.9	433.9	441.2	443.9	439.9	433.2	431.3
60°	4333.1	1539.2	494.9	508.2	500.9	421.3	426.6	429.3	424.6	423.3	422.6
62.5°	4469.1	1443.7	475.7	504.2	493.0	407.4	411.3	412.7	408.0	411.3	410.7
65°	4266.7	1240.7	443.9	485.0	468.4	394.8	392.1	395.4	387.5	396.1	396.8
67.5°	3788.4	985.9	395.4	448.5	433.9	380.8	375.5	375.5	362.3	375.5	374.9
70°	3054.6	696.6	324.4	390.1	396.1	364.2	361.6	346.3	325.1	345.0	343.0
72.5°	2315.5	500.3	255.4	308.5	341.0	341.0	341.7	315.8	291.3	300.5	292.6
75°	1466.9	352.3	204.3	236.2	267.4	299.2	314.5	266.7	244.8	240.8	236.9
77.5°	660.8	231.5	159.2	181.1	189.8	236.2	287.3	229.6	199.7	191.1	188.4
80°	276.7	144.0	113.5	128.0	116.8	198.4	253.4	178.5	146.6	134.7	126.1
82.5°	121.4	85.6	72.3	69.0	73.0	147.3	189.1	118.8	91.6	124.1	125.4
85°	51.1	45.1	37.2	33.8	29.9	56.4	88.9	46.4	57.1	32.5	26.5
87.5°	11.9	13.3	10.0	6.6	4.0	0.7	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)