

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: P632720

Luminaire Tested: GWS-SA2D-730-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632720
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-SA2D-730-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10841.7 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

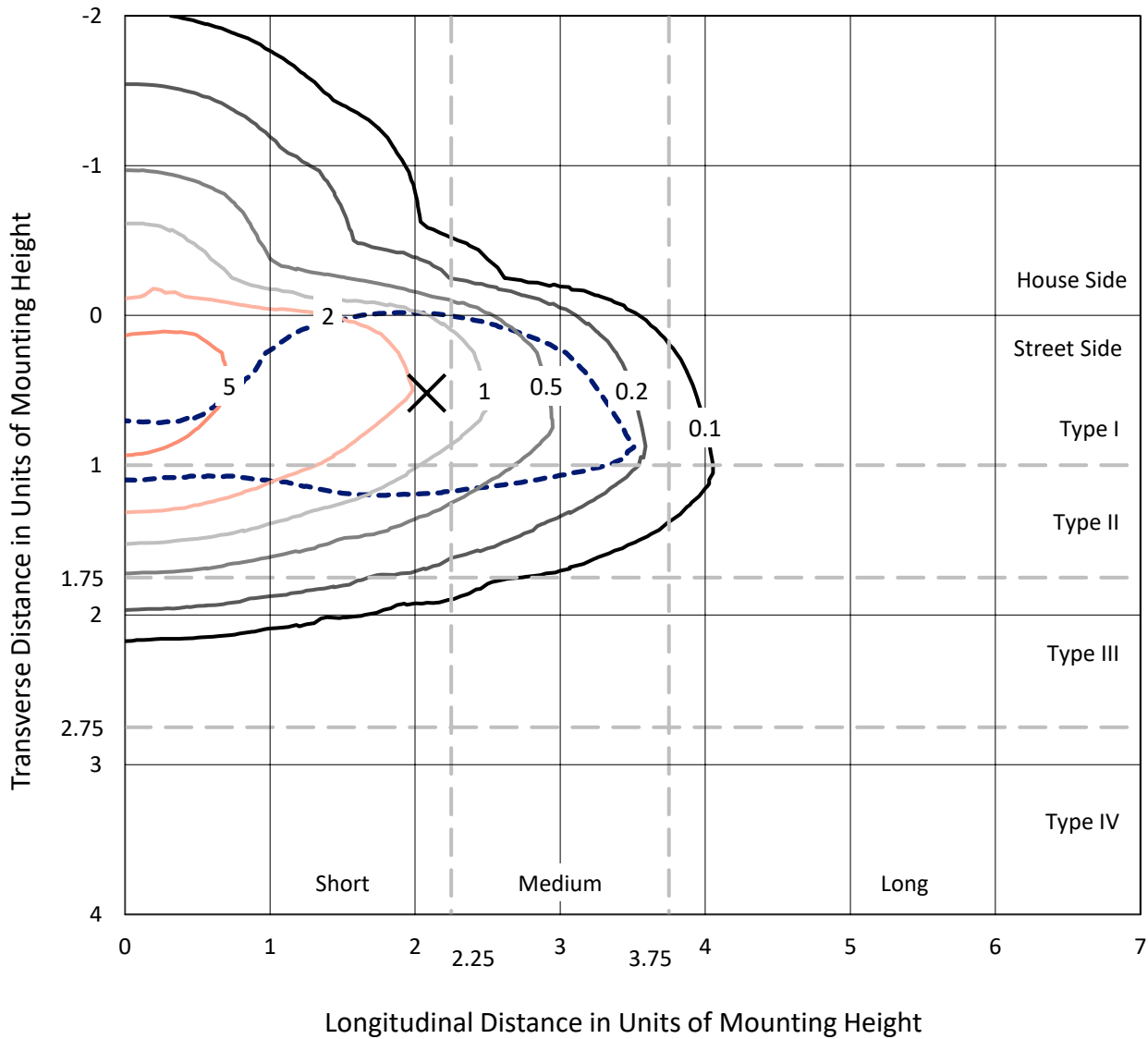
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

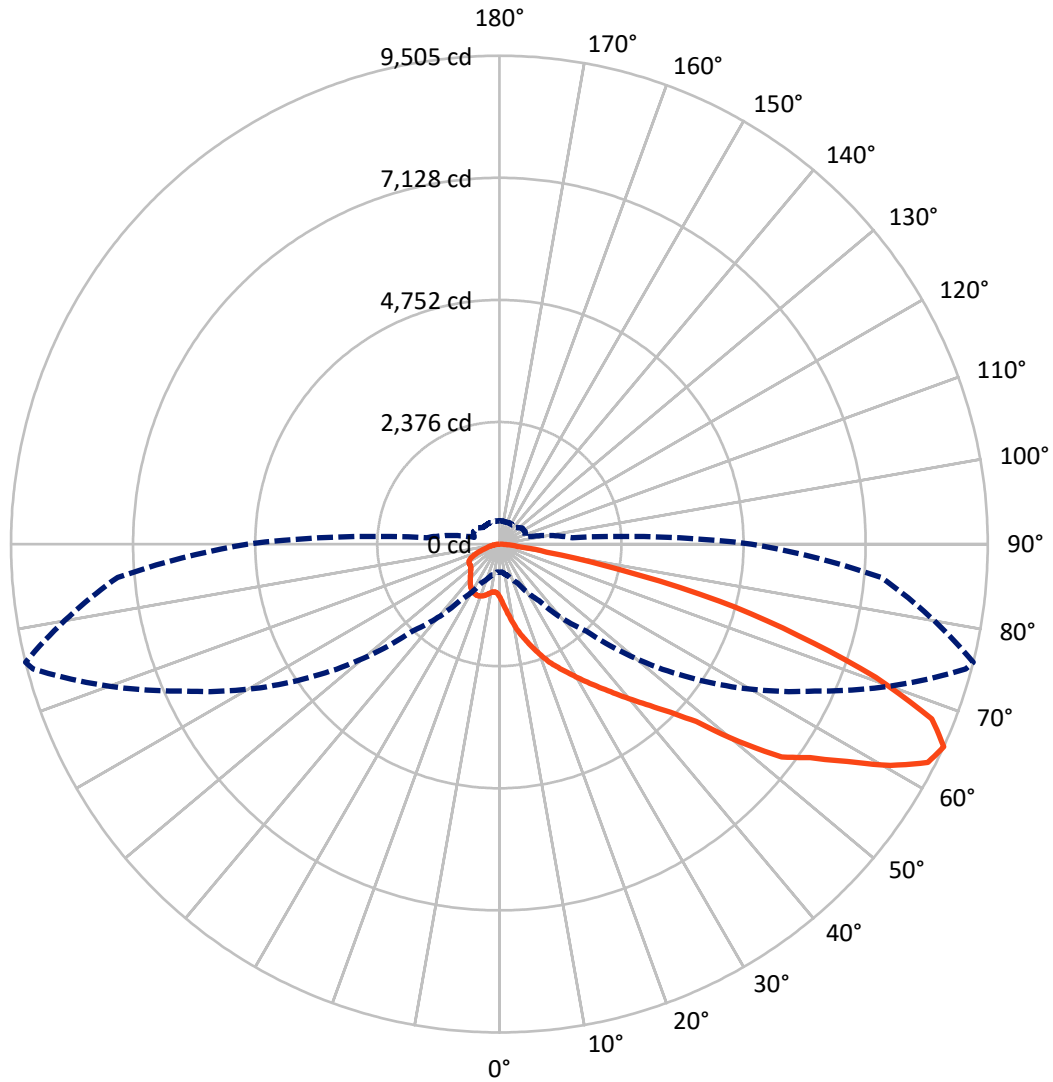
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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	1812.2	0.0	1812.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9029.5	0.0	9029.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	10841.7	0.0	10841.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	1.1
10°-20°	464.6	4.3
20°-30°	905.4	8.4
30°-40°	1514.2	14.0
40°-50°	2168.1	20.0
50°-60°	2566.7	23.7
60°-70°	2134.3	19.7
70°-80°	873.4	8.1
80°-90°	93.0	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°	10841.7	100.0
0°-180°	10841.7	100.0

Coefficient of Utilization



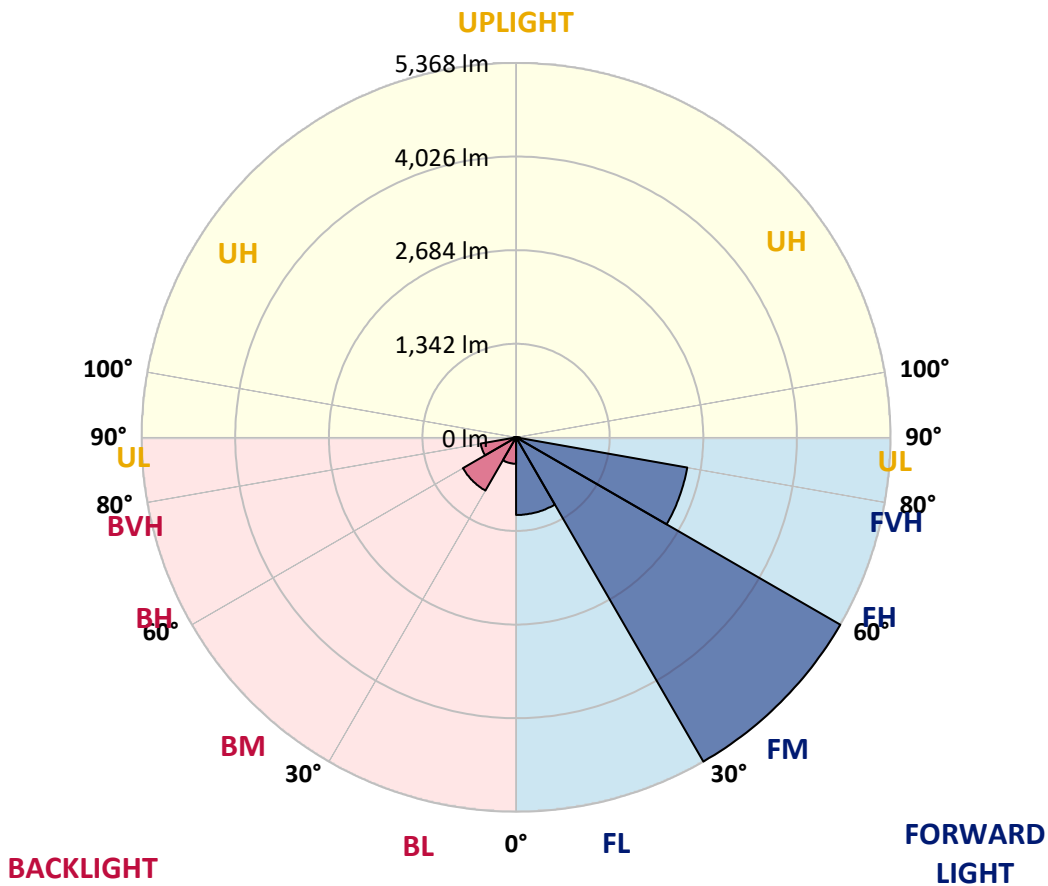
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.9	10.3			
FM (30°-60°)	5368.4	49.5			
FH (60°-80°)	2492.8	23.0			G2/5000
FVH (80°-90°)	55.5	0.5			G1/100
BL (0°-30°)	379.1	3.5	B1/500		
BM (30°-60°)	880.7	8.1	B1/1000		
BH (60°-80°)	514.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	37.5	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°	65°	75°	76°	85°
0°	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7
2.5°	1439.0	1444.3	1426.8	1420.7	1379.6	1323.9	1277.4	1207.3	1142.5	1132.6	1074.7
5°	1827.7	1804.9	1785.0	1772.1	1714.9	1651.7	1553.3	1421.5	1283.5	1266.8	1141.8
7.5°	2058.7	2054.9	2030.5	2022.9	1978.6	1915.4	1814.0	1650.1	1449.7	1422.2	1232.5
10°	2243.9	2241.6	2229.4	2236.3	2195.9	2134.1	2035.8	1866.6	1631.8	1604.4	1333.8
12.5°	2405.5	2409.3	2407.0	2432.1	2411.6	2363.5	2261.4	2075.4	1814.0	1784.3	1457.3
15°	2523.6	2526.7	2538.1	2593.0	2604.4	2594.5	2490.8	2280.5	1993.9	1951.2	1584.6
17.5°	2557.1	2563.2	2590.7	2679.1	2740.8	2782.0	2705.0	2489.3	2170.7	2124.2	1714.2
20°	2602.1	2609.0	2636.4	2728.6	2819.3	2913.1	2899.4	2701.2	2349.1	2311.0	1845.3
22.5°	2810.2	2804.9	2792.7	2836.9	2901.7	3018.3	3052.6	2904.7	2533.5	2496.9	1990.1
25°	3211.1	3201.2	3123.5	3083.1	3061.7	3132.6	3193.6	3089.9	2713.4	2658.5	2125.0
27.5°	3653.2	3647.8	3548.8	3452.7	3321.6	3291.1	3327.0	3251.5	2887.9	2832.3	2242.4
30°	4071.6	4055.6	3952.0	3831.5	3656.2	3525.1	3472.5	3410.0	3079.2	3021.3	2379.6
32.5°	4445.8	4425.3	4303.3	4169.9	3986.2	3831.5	3674.5	3578.5	3295.7	3228.6	2519.8
35°	4753.0	4732.4	4607.4	4465.7	4263.7	4149.4	3934.4	3761.4	3516.0	3448.1	2685.2
37.5°	4990.8	4971.8	4841.4	4701.9	4525.9	4435.2	4248.4	3967.2	3769.8	3698.9	2860.5
40°	5124.2	5110.5	5006.1	4895.5	4747.7	4669.2	4585.3	4227.1	4054.1	3983.2	3067.0
42.5°	5164.6	5155.4	5082.3	5025.1	4925.3	4865.8	4913.8	4532.7	4357.4	4295.7	3299.5
45°	5063.2	5063.2	5041.9	5070.8	5075.4	5074.7	5243.1	4878.0	4730.1	4662.3	3627.3
47.5°	4804.1	4820.8	4852.1	4994.6	5144.8	5270.5	5628.0	5338.4	5209.6	5153.9	4091.4
50°	4330.0	4375.7	4482.4	4760.6	5080.0	5400.1	5992.3	6019.0	6141.7	6043.4	4774.4
52.5°	3635.6	3628.8	3900.9	4297.2	4784.3	5405.4	6192.8	6619.6	6949.6	6881.8	5282.0
55°	2889.5	2878.0	3131.8	3678.3	4330.8	5201.2	6313.2	6894.8	7397.8	7336.8	5738.5
57.5°	2212.6	2198.2	2423.8	2916.9	3690.5	4767.5	6290.3	7222.5	8014.4	7983.2	6358.9
60°	1522.9	1505.3	1716.5	2147.8	2932.9	4104.4	6037.3	7390.9	8736.2	8746.9	7022.8
62.5°	914.6	904.7	1057.9	1392.5	2109.7	3282.7	5445.1	7288.8	9310.9	9358.9	7449.6
65°	551.8	545.0	634.9	830.8	1338.4	2395.6	4532.0	6766.7	9394.0	9504.5	7459.5
67.5°	401.7	402.4	428.4	506.1	780.5	1547.2	3400.9	5830.7	8961.1	9075.4	6989.3
70°	349.1	350.6	364.3	381.9	471.8	885.7	2211.1	4602.9	7681.3	7769.8	5862.0
72.5°	310.2	310.2	319.4	328.5	368.9	539.6	1184.4	3217.2	6062.5	6086.1	4474.1
75°	272.9	270.6	275.2	279.7	320.1	377.3	576.2	2241.6	4477.9	4423.0	2891.7
77.5°	217.2	214.9	215.7	220.3	256.9	269.8	291.9	1400.1	2523.6	2381.8	1277.4
80°	154.7	153.2	161.6	173.0	189.8	165.4	182.9	677.6	1000.8	931.4	495.4
82.5°	92.2	95.3	108.2	117.4	131.1	103.7	118.1	226.4	354.4	345.3	201.2
85°	13.0	13.7	38.9	45.0	56.4	40.4	62.5	102.1	141.8	151.7	70.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	18.3	40.4	41.2	17.5
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°	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7
2.5°	1045.0	1009.1	958.1	915.4	879.6	850.6	826.2	807.9	802.6	795.0	795.0
5°	1083.1	1018.3	926.8	862.0	824.7	802.6	787.3	779.7	775.9	771.3	769.0
7.5°	1135.7	1045.0	921.5	855.9	827.0	813.3	803.3	798.8	795.7	791.2	791.2
10°	1208.1	1084.6	938.3	877.3	854.4	840.7	829.3	821.6	814.8	807.9	806.4
12.5°	1286.6	1136.4	968.7	906.2	881.9	865.1	849.1	837.6	829.3	820.9	818.6
15°	1373.5	1189.8	1001.5	934.4	904.0	881.1	862.0	844.5	833.1	820.9	819.4
17.5°	1458.8	1243.9	1029.0	953.5	914.6	886.4	859.0	836.1	821.6	807.9	804.1
20°	1561.0	1298.0	1048.0	958.8	912.3	875.0	842.2	813.3	797.2	781.2	779.0
22.5°	1654.7	1348.3	1057.2	951.2	894.8	850.6	812.5	781.2	763.7	747.7	744.7
25°	1745.4	1392.5	1053.3	932.9	868.1	817.1	777.4	746.2	729.4	712.6	708.1
27.5°	1833.1	1422.2	1038.1	904.7	834.6	779.7	741.6	713.4	698.9	684.4	678.3
30°	1919.2	1449.7	1014.5	868.1	791.9	740.8	709.6	689.8	675.3	660.1	655.5
32.5°	2006.1	1469.5	978.7	825.5	748.5	706.5	687.5	673.0	657.8	642.5	638.0
35°	2093.7	1477.9	935.2	776.7	711.9	684.4	677.6	660.8	640.2	621.9	615.8
37.5°	2198.2	1485.5	881.1	728.7	679.9	673.8	672.3	647.1	622.7	597.6	590.7
40°	2323.9	1495.4	825.5	685.2	654.0	670.0	663.9	629.6	580.8	556.4	548.8
42.5°	2477.9	1513.7	767.5	645.6	634.9	655.5	648.6	586.9	554.1	540.4	536.6
45°	2704.2	1580.8	709.6	614.3	620.4	634.9	624.2	561.7	548.8	539.6	535.1
47.5°	3107.4	1683.7	659.3	590.7	609.0	616.6	575.5	554.9	545.0	532.8	527.4
50°	3526.6	1728.6	618.9	576.2	596.0	599.8	548.8	545.7	538.9	525.9	520.6
52.5°	3810.2	1722.5	594.5	570.9	585.4	570.9	536.6	535.8	531.2	516.0	509.9
55°	4130.3	1733.2	583.8	572.4	580.8	522.1	521.3	523.6	521.3	504.6	501.5
57.5°	4562.5	1766.0	578.5	577.7	577.7	498.5	506.9	509.9	505.3	497.7	495.4
60°	4977.9	1768.3	568.6	583.8	575.5	484.0	490.1	493.1	487.8	486.3	485.5
62.5°	5134.1	1658.5	546.5	579.3	566.3	468.0	472.6	474.1	468.7	472.6	471.8
65°	4901.6	1425.3	509.9	557.2	538.1	453.5	450.5	454.3	445.1	455.0	455.8
67.5°	4352.1	1132.6	454.3	515.2	498.5	437.5	431.4	431.4	416.2	431.4	430.6
70°	3509.1	800.3	372.7	448.2	455.0	418.4	415.4	397.9	373.5	396.3	394.1
72.5°	2660.0	574.7	293.4	354.4	391.8	391.8	392.5	362.8	334.6	345.3	336.1
75°	1685.2	404.7	234.8	271.3	307.2	343.7	361.3	306.4	281.2	276.7	272.1
77.5°	759.1	266.0	182.9	208.1	218.0	271.3	330.0	263.7	229.4	219.5	216.5
80°	317.8	165.4	130.3	147.1	134.1	227.9	291.2	205.0	168.4	154.7	144.8
82.5°	139.5	98.3	83.1	79.3	83.8	169.2	217.2	136.4	105.2	142.5	144.1
85°	58.7	51.8	42.7	38.9	34.3	64.8	102.1	53.4	65.5	37.3	30.5
87.5°	13.7	15.2	11.4	7.6	4.6	0.8	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)