

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: P632278

Luminaire Tested: GWS-SA2C-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8034 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

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

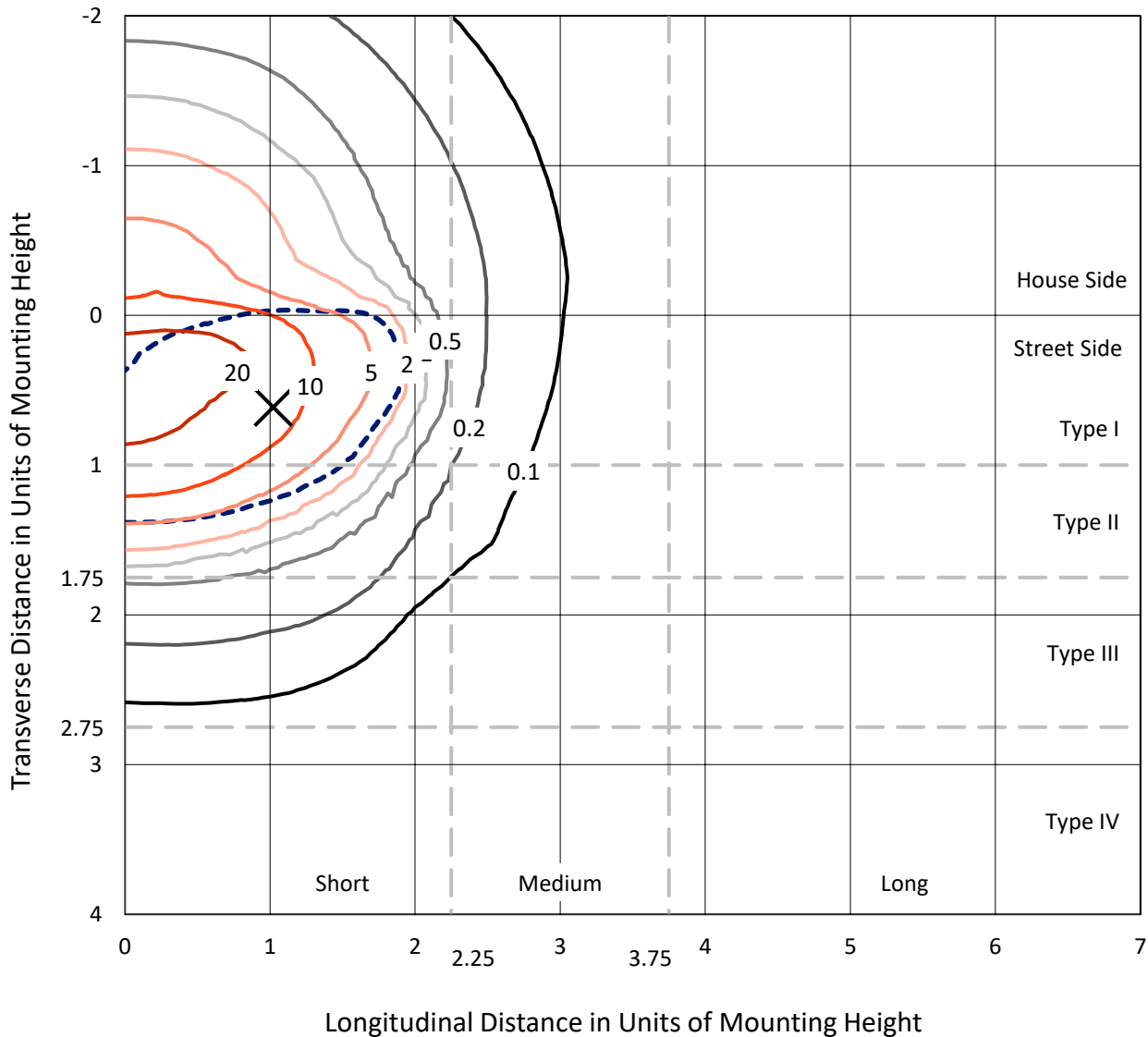


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Iso-Footcandle Lines of Horizontal Illumination

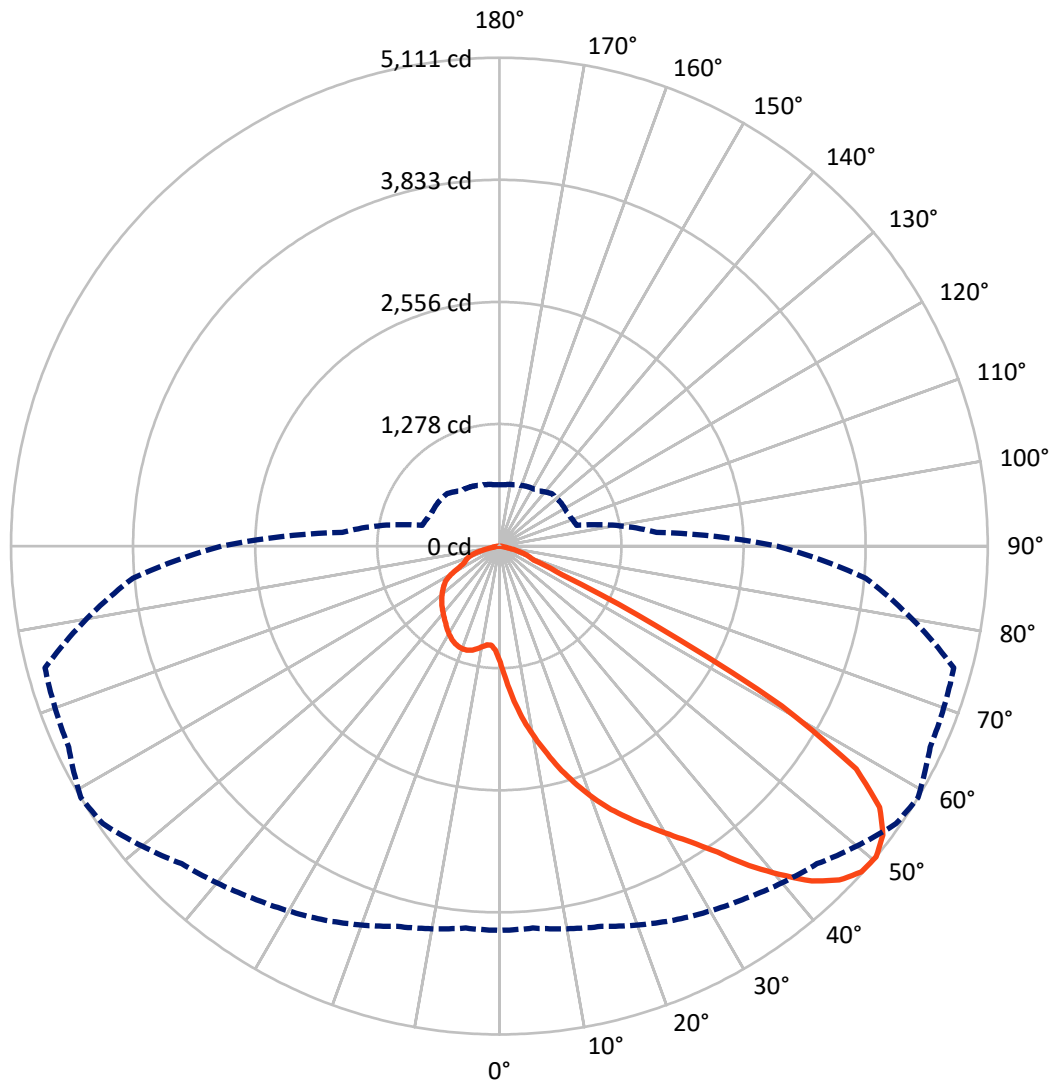
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.0	0.0	1848.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	6186.0	0.0	6186.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	8034.0	0.0	8034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.7
10°-20°	495.7	6.2
20°-30°	938.7	11.7
30°-40°	1556.6	19.4
40°-50°	2126.4	26.5
50°-60°	1930.2	24.0
60°-70°	642.8	8.0
70°-80°	187.5	2.3
80°-90°	19.7	0.2
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°	8034.0	100.0
0°-180°	8034.0	100.0

Coefficient of Utilization



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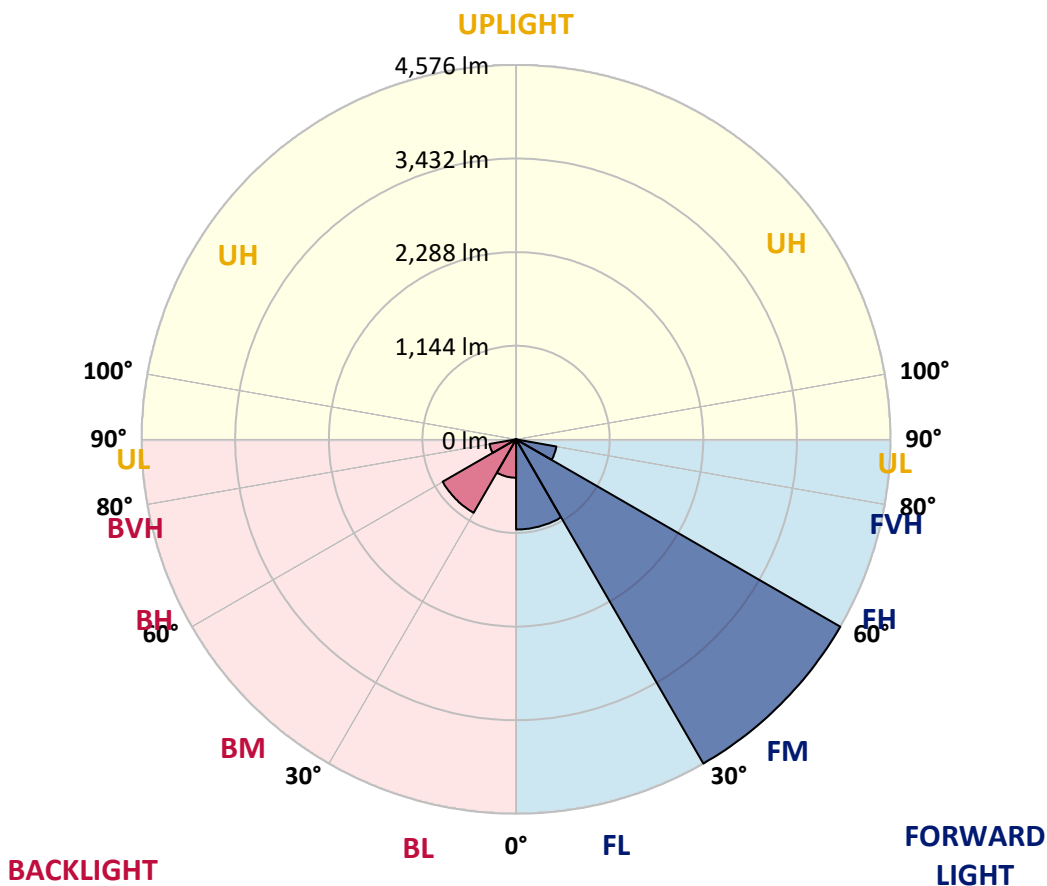
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.7	13.7			
FM (30°-60°)	4576.3	57.0			
FH (60°-80°)	500.4	6.2			G0/660
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	469.2	5.8	B1/500		
BM (30°-60°)	1036.9	12.9	B2/2500		
BH (60°-80°)	329.8	4.1	B1/500		G1/500
BVH (80°-90°)	12.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1577.1	1588.9	1570.6	1571.9	1526.1	1505.1	1446.3	1411.6	1388.7	1324.5	1266.3
5°	1895.2	1881.4	1867.0	1858.5	1818.6	1762.3	1689.0	1630.8	1577.1	1451.5	1330.4
7.5°	2090.2	2083.0	2073.2	2067.9	2028.7	1969.8	1896.5	1846.8	1768.9	1598.7	1408.3
10°	2255.8	2247.3	2241.4	2245.3	2213.2	2175.3	2095.4	2038.5	1950.8	1754.5	1502.5
12.5°	2384.0	2388.6	2390.6	2411.5	2397.8	2374.9	2292.4	2232.2	2134.7	1918.7	1613.1
15°	2485.5	2484.2	2507.1	2547.0	2569.2	2554.8	2488.7	2438.3	2319.2	2080.4	1732.2
17.5°	2509.0	2510.3	2546.3	2616.3	2689.0	2724.3	2687.0	2626.8	2509.0	2240.1	1855.9
20°	2528.0	2530.6	2567.9	2647.8	2753.8	2852.6	2858.5	2815.3	2713.8	2412.8	1981.6
22.5°	2647.8	2653.6	2663.5	2713.8	2809.4	2934.4	3003.1	2993.9	2908.9	2594.1	2117.0
25°	2962.5	2944.9	2897.1	2882.7	2919.3	3020.8	3137.9	3155.6	3113.7	2793.7	2263.0
27.5°	3351.2	3332.3	3261.6	3187.0	3107.8	3143.1	3268.1	3321.1	3321.8	3013.6	2409.5
30°	3704.0	3688.9	3631.3	3524.7	3387.9	3336.9	3429.1	3500.5	3543.0	3267.5	2576.4
32.5°	4005.7	3991.9	3914.0	3827.0	3693.5	3590.8	3624.1	3692.9	3792.3	3596.0	2783.9
35°	4259.6	4245.8	4171.2	4083.5	3959.9	3898.3	3886.6	3933.7	4062.6	3938.9	3022.1
37.5°	4465.7	4452.0	4374.1	4291.6	4197.4	4201.3	4219.0	4241.9	4315.9	4306.0	3276.6
40°	4599.2	4584.8	4529.2	4470.3	4410.7	4457.9	4545.6	4518.1	4557.3	4602.5	3510.9
42.5°	4658.8	4640.4	4608.4	4595.3	4577.0	4650.3	4819.1	4791.6	4744.5	4800.1	3685.0
45°	4599.2	4583.5	4582.9	4622.8	4665.3	4759.5	5008.2	4986.0	4866.9	4895.7	3789.1
47.5°	4416.6	4402.9	4440.2	4544.9	4649.6	4787.0	5092.6	5096.6	4953.9	4935.6	3856.5
50°	4022.0	4012.9	4120.8	4319.1	4499.7	4701.3	5065.8	5111.0	4974.8	4923.1	3847.9
52.5°	3219.7	3262.2	3497.2	3828.3	4179.1	4550.8	4966.3	5025.2	4874.1	4841.3	3802.1
55°	2204.1	2223.7	2458.6	2942.2	3498.5	4224.9	4737.9	4828.9	4755.0	4827.6	3849.9
57.5°	1141.3	1157.0	1342.2	1771.5	2372.9	3338.8	4103.8	4402.2	4514.8	4897.0	3998.5
60°	468.6	481.6	558.2	765.7	1196.9	1944.3	2953.4	3395.7	3660.1	4472.3	3550.8
62.5°	340.3	346.8	383.5	456.8	626.9	952.8	1671.4	1834.3	2020.2	2802.9	2254.5
65°	286.6	293.8	323.3	367.8	457.4	584.4	714.0	717.9	791.2	1142.0	835.7
67.5°	240.2	246.7	272.9	310.8	369.7	414.9	383.5	384.1	382.8	414.2	400.5
70°	187.2	192.4	218.6	259.1	289.9	266.3	299.7	331.8	318.0	330.5	349.5
72.5°	136.8	142.7	165.6	196.3	188.5	189.8	242.8	275.5	267.7	281.4	299.1
75°	98.8	102.7	114.5	98.2	103.4	125.0	170.8	188.5	196.3	208.1	223.8
77.5°	32.1	32.1	36.0	45.2	56.3	69.4	87.0	94.2	106.0	119.1	130.2
80°	16.4	17.0	20.3	24.9	31.4	39.9	51.0	54.3	60.2	67.4	72.0
82.5°	7.9	8.5	9.8	12.4	16.4	20.9	28.1	31.4	35.3	39.9	43.2
85°	2.0	2.0	2.6	3.9	5.2	7.9	10.5	12.4	15.7	19.0	20.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.6	3.3	3.9	5.2
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°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1240.1	1203.5	1156.3	1116.4	1079.8	1051.6	1027.4	1015.6	1004.5	996.7	999.3
5°	1274.1	1211.3	1123.6	1062.8	1025.5	1006.5	993.4	986.9	985.5	980.3	978.3
7.5°	1323.9	1234.2	1117.1	1055.6	1030.7	1020.9	1013.7	1009.8	1011.7	1006.5	1004.5
10°	1385.4	1272.2	1133.4	1079.1	1057.5	1050.3	1042.5	1037.2	1034.6	1026.8	1025.5
12.5°	1462.0	1319.3	1162.9	1109.2	1087.6	1075.2	1064.7	1055.6	1049.7	1039.9	1037.2
15°	1544.4	1371.6	1197.6	1138.7	1113.2	1094.8	1077.8	1064.1	1053.6	1040.5	1038.6
17.5°	1634.1	1426.6	1226.4	1159.0	1126.2	1102.0	1077.2	1056.9	1042.5	1025.5	1023.5
20°	1727.6	1482.2	1248.0	1168.8	1126.9	1094.2	1060.8	1034.0	1015.6	998.6	997.3
22.5°	1824.5	1533.3	1261.1	1166.2	1116.4	1075.9	1035.9	1005.8	984.2	964.0	962.6
25°	1922.0	1582.4	1264.3	1155.7	1095.5	1048.4	1008.5	973.1	948.9	926.0	923.4
27.5°	2020.8	1623.6	1256.5	1134.8	1067.3	1016.3	976.4	941.7	916.8	893.9	890.0
30°	2126.2	1658.9	1239.5	1107.3	1034.6	982.3	943.0	916.8	893.3	870.4	866.4
32.5°	2238.7	1689.7	1215.2	1073.9	996.7	948.2	919.4	895.9	872.3	852.0	848.1
35°	2372.9	1710.0	1179.3	1030.7	961.3	923.4	903.7	876.3	847.5	825.2	823.3
37.5°	2511.6	1725.7	1136.1	989.5	930.6	909.0	892.6	855.3	819.3	792.5	789.2
40°	2645.8	1738.8	1082.4	950.9	902.4	898.5	876.3	829.8	767.6	737.5	734.9
42.5°	2770.8	1742.7	1026.1	909.6	876.9	874.9	850.1	778.1	730.3	711.3	708.7
45°	2856.5	1739.4	967.9	871.0	851.4	840.9	814.7	740.8	711.3	694.3	691.1
47.5°	2920.0	1722.4	902.4	830.4	822.6	808.2	751.9	717.2	689.8	672.7	669.5
50°	2908.9	1651.7	836.3	791.2	787.9	775.5	706.1	687.8	663.6	645.3	642.6
52.5°	2851.3	1517.6	768.9	748.0	754.5	730.3	673.4	652.4	631.5	610.6	606.0
55°	2865.7	1420.7	717.9	706.1	717.9	662.9	636.7	614.5	594.9	574.6	570.6
57.5°	2928.5	1325.2	663.6	661.0	673.4	611.2	589.6	561.5	533.3	517.0	517.0
60°	2459.3	965.9	568.0	574.6	602.7	569.3	550.4	521.6	490.8	476.4	476.4
62.5°	1454.1	606.0	471.2	464.0	481.6	502.6	513.1	489.5	452.9	433.9	434.5
65°	640.7	441.1	415.6	409.7	404.4	418.8	447.6	449.6	411.0	388.7	389.4
67.5°	394.6	399.2	388.7	384.1	379.6	376.9	374.3	375.6	365.2	344.9	344.2
70°	356.0	368.4	361.2	357.3	351.4	346.8	331.1	305.6	287.9	282.7	288.6
72.5°	306.3	323.3	319.4	317.4	310.2	299.1	278.1	253.3	232.3	219.2	221.8
75°	231.0	244.8	246.7	247.4	239.5	229.0	207.4	186.5	168.2	154.4	157.7
77.5°	132.8	140.7	142.7	144.6	138.7	134.8	120.4	105.4	95.5	81.1	85.1
80°	73.9	77.2	77.2	77.9	74.6	70.0	60.2	51.7	47.1	40.6	41.2
82.5°	44.5	45.8	46.5	47.1	45.2	40.6	33.4	27.5	24.9	21.6	20.9
85°	21.6	22.9	22.9	23.6	20.3	17.7	13.7	10.5	9.2	6.5	7.2
87.5°	5.2	5.9	5.9	5.2	4.6	3.3	2.0	0.7	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)