

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: P631893

Luminaire Tested: GWS-SA2B-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631893
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-SA2B-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6213 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

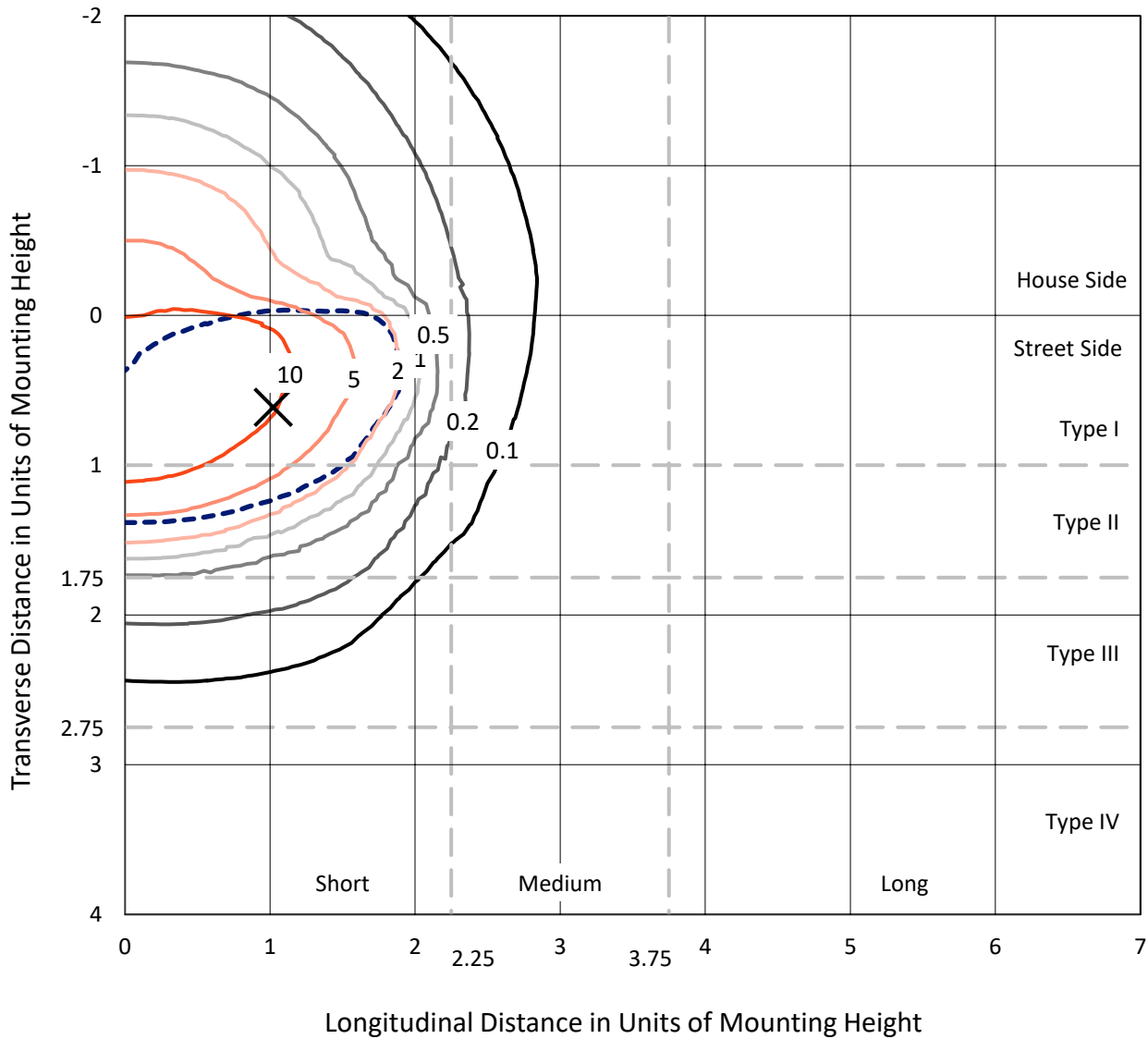
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

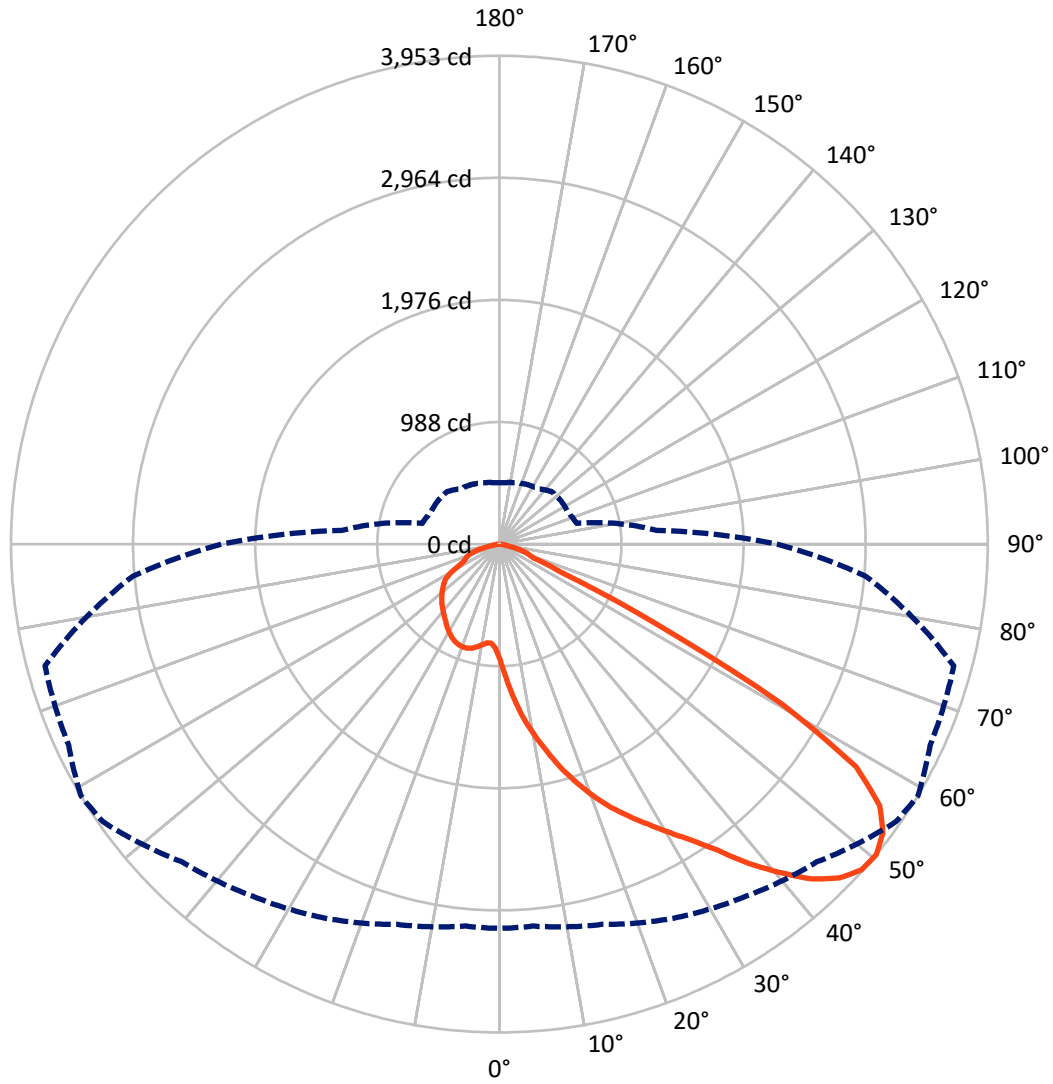
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 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	1429.1	0.0	1429.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4783.9	0.0	4783.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	6213.0	0.0	6213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	1.7
10°-20°	383.3	6.2
20°-30°	725.9	11.7
30°-40°	1203.8	19.4
40°-50°	1644.4	26.5
50°-60°	1492.7	24.0
60°-70°	497.1	8.0
70°-80°	145.0	2.3
80°-90°	15.2	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°	6213.0	100.0
0°-180°	6213.0	100.0

Coefficient of Utilization



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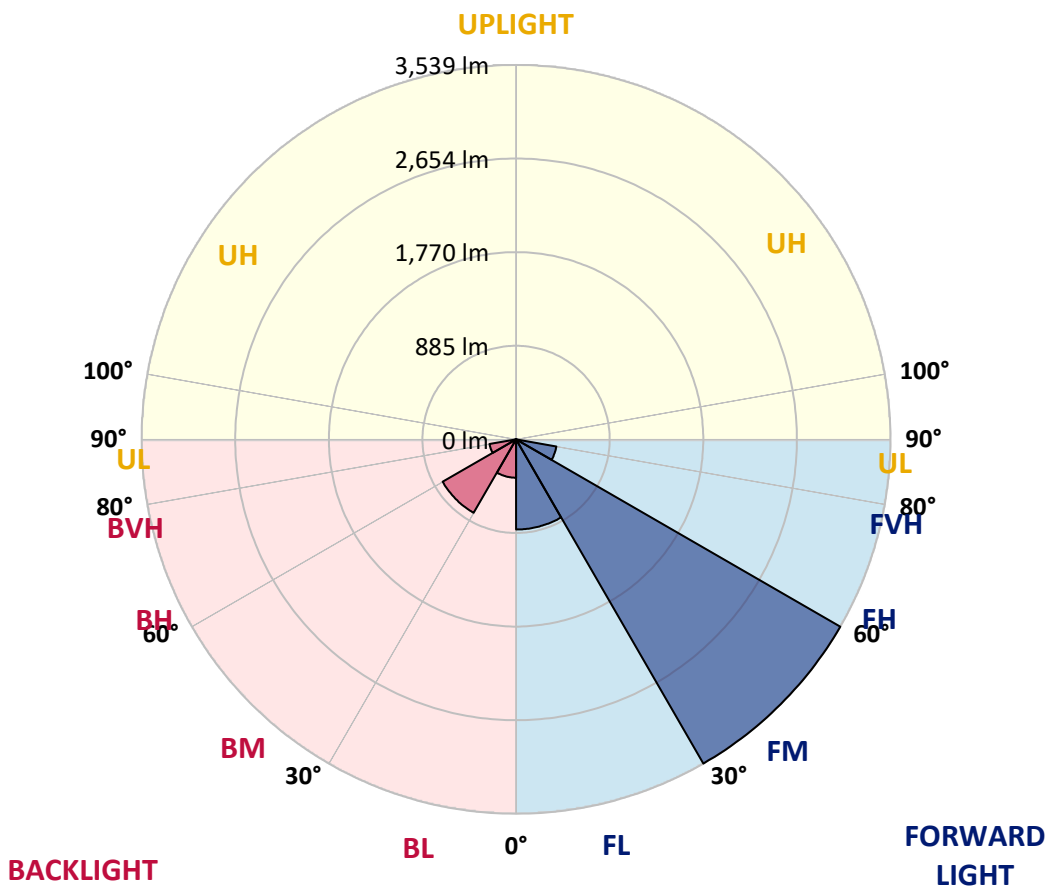
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.0	13.7			
FM (30°-60°)	3539.0	57.0			
FH (60°-80°)	387.0	6.2			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	362.9	5.8	B1/500		
BM (30°-60°)	801.9	12.9	B1/1000		
BH (60°-80°)	255.1	4.1	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	1219.7	1228.8	1214.6	1215.6	1180.2	1164.0	1118.4	1091.6	1073.9	1024.3	979.3
5°	1465.6	1455.0	1443.9	1437.3	1406.4	1362.9	1306.2	1261.2	1219.7	1122.5	1028.9
7.5°	1616.4	1610.9	1603.3	1599.2	1568.9	1523.3	1466.6	1428.2	1367.9	1236.4	1089.1
10°	1744.5	1737.9	1733.3	1736.4	1711.6	1682.2	1620.5	1576.4	1508.6	1356.8	1162.0
12.5°	1843.7	1847.2	1848.7	1864.9	1854.3	1836.6	1772.8	1726.2	1650.8	1483.8	1247.5
15°	1922.1	1921.1	1938.8	1969.7	1986.9	1975.7	1924.6	1885.7	1793.6	1608.8	1339.6
17.5°	1940.3	1941.3	1969.2	2023.3	2079.5	2106.8	2078.0	2031.4	1940.3	1732.3	1435.2
20°	1955.0	1957.0	1985.9	2047.6	2129.6	2206.0	2210.6	2177.2	2098.7	1865.9	1532.4
22.5°	2047.6	2052.2	2059.8	2098.7	2172.6	2269.3	2322.4	2315.3	2249.5	2006.1	1637.2
25°	2291.0	2277.4	2240.4	2229.3	2257.6	2336.1	2426.7	2440.3	2407.9	2160.5	1750.0
27.5°	2591.6	2577.0	2522.3	2464.6	2403.4	2430.7	2527.4	2568.4	2568.9	2330.5	1863.4
30°	2864.4	2852.8	2808.3	2725.8	2620.0	2580.5	2651.9	2707.0	2739.9	2526.9	1992.4
32.5°	3097.7	3087.1	3026.9	2959.6	2856.3	2776.9	2802.7	2855.8	2932.7	2780.9	2152.9
35°	3294.1	3283.5	3225.8	3158.0	3062.3	3014.7	3005.6	3042.1	3141.8	3046.1	2337.1
37.5°	3453.5	3442.9	3382.7	3318.9	3246.0	3249.0	3262.7	3280.4	3337.6	3330.0	2534.0
40°	3556.7	3545.6	3502.6	3457.0	3411.0	3447.4	3515.2	3494.0	3524.4	3559.3	2715.1
42.5°	3602.8	3588.6	3563.8	3553.7	3539.5	3596.2	3726.8	3705.5	3669.1	3712.1	2849.8
45°	3556.7	3544.6	3544.1	3575.0	3607.9	3680.7	3873.0	3855.8	3763.7	3786.0	2930.2
47.5°	3415.6	3404.9	3433.8	3514.7	3595.7	3702.0	3938.3	3941.4	3831.0	3816.9	2982.3
50°	3110.4	3103.3	3186.8	3340.1	3479.8	3635.7	3917.6	3952.5	3847.2	3807.3	2975.8
52.5°	2489.9	2522.8	2704.5	2960.6	3231.8	3519.3	3840.7	3886.2	3769.3	3744.0	2940.3
55°	1704.5	1719.7	1901.4	2275.3	2705.5	3267.3	3664.0	3734.4	3677.2	3733.4	2977.3
57.5°	882.6	894.8	1038.0	1370.0	1835.1	2582.0	3173.6	3404.4	3491.5	3787.0	3092.2
60°	362.4	372.5	431.7	592.1	925.6	1503.6	2284.0	2626.1	2830.5	3458.6	2746.0
62.5°	263.2	268.2	296.6	353.2	484.8	736.9	1292.5	1418.5	1562.3	2167.6	1743.5
65°	221.7	227.2	250.0	284.4	353.8	451.9	552.1	555.2	611.9	883.1	646.3
67.5°	185.7	190.8	211.0	240.4	285.9	320.9	296.6	297.1	296.1	320.4	309.7
70°	144.7	148.8	169.0	200.4	224.2	206.0	231.8	256.6	246.0	255.6	270.2
72.5°	105.8	110.3	128.0	151.8	145.8	146.8	187.8	213.1	207.0	217.6	231.3
75°	76.4	79.5	88.6	75.9	80.0	96.7	132.1	145.8	151.8	160.9	173.1
77.5°	24.8	24.8	27.8	34.9	43.5	53.6	67.3	72.9	82.0	92.1	100.7
80°	12.7	13.2	15.7	19.2	24.3	30.9	39.5	42.0	46.6	52.1	55.7
82.5°	6.1	6.6	7.6	9.6	12.7	16.2	21.8	24.3	27.3	30.9	33.4
85°	1.5	1.5	2.0	3.0	4.0	6.1	8.1	9.6	12.1	14.7	16.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.5	3.0	4.0
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°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	959.0	930.7	894.2	863.4	835.0	813.3	794.5	785.4	776.8	770.8	772.8
5°	985.3	936.8	868.9	821.9	793.0	778.4	768.2	763.2	762.2	758.1	756.6
7.5°	1023.8	954.5	863.9	816.3	797.1	789.5	783.9	780.9	782.4	778.4	776.8
10°	1071.4	983.8	876.5	834.5	817.8	812.3	806.2	802.1	800.1	794.0	793.0
12.5°	1130.6	1020.3	899.3	857.8	841.1	831.5	823.4	816.3	811.8	804.2	802.1
15°	1194.4	1060.7	926.1	880.6	860.8	846.7	833.5	822.9	814.8	804.7	803.2
17.5°	1263.7	1103.3	948.4	896.3	871.0	852.2	833.0	817.3	806.2	793.0	791.5
20°	1336.1	1146.3	965.1	903.9	871.5	846.2	820.4	799.6	785.4	772.3	771.3
22.5°	1411.0	1185.8	975.2	901.8	863.4	832.0	801.1	777.8	761.1	745.5	744.4
25°	1486.4	1223.7	977.8	893.7	847.2	810.7	779.9	752.5	733.8	716.1	714.1
27.5°	1562.8	1255.6	971.7	877.5	825.4	785.9	755.1	728.3	709.0	691.3	688.3
30°	1644.3	1282.9	958.5	856.3	800.1	759.6	729.3	709.0	690.8	673.1	670.1
32.5°	1731.3	1306.7	939.8	830.5	770.8	733.3	711.0	692.8	674.6	658.9	655.9
35°	1835.1	1322.4	912.0	797.1	743.4	714.1	698.9	677.6	655.4	638.2	636.7
37.5°	1942.3	1334.5	878.6	765.2	719.6	702.9	690.3	661.4	633.6	612.9	610.3
40°	2046.1	1344.7	837.1	735.3	697.9	694.9	677.6	641.7	593.6	570.4	568.3
42.5°	2142.8	1347.7	793.5	703.5	678.2	676.6	657.4	601.7	564.8	550.1	548.1
45°	2209.1	1345.2	748.5	673.6	658.4	650.3	630.1	572.9	550.1	537.0	534.4
47.5°	2258.1	1332.0	697.9	642.2	636.1	625.0	581.5	554.7	533.4	520.3	517.7
50°	2249.5	1277.4	646.8	611.9	609.3	599.7	546.1	531.9	513.2	499.0	497.0
52.5°	2205.0	1173.6	594.6	578.5	583.5	564.8	520.8	504.6	488.4	472.2	468.6
55°	2216.1	1098.7	555.2	546.1	555.2	512.7	492.4	475.2	460.0	444.3	441.3
57.5°	2264.7	1024.8	513.2	511.1	520.8	472.7	456.0	434.2	412.5	399.8	399.8
60°	1901.9	747.0	439.3	444.3	466.1	440.3	425.6	403.3	379.6	368.4	368.4
62.5°	1124.5	468.6	364.4	358.8	372.5	388.7	396.8	378.5	350.2	335.5	336.0
65°	495.5	341.1	321.4	316.8	312.8	323.9	346.2	347.7	317.8	300.6	301.1
67.5°	305.2	308.7	300.6	297.1	293.5	291.5	289.5	290.5	282.4	266.7	266.2
70°	275.3	284.9	279.4	276.3	271.8	268.2	256.1	236.3	222.7	218.6	223.2
72.5°	236.8	250.0	247.0	245.5	239.9	231.3	215.1	195.9	179.7	169.5	171.6
75°	178.6	189.3	190.8	191.3	185.2	177.1	160.4	144.2	130.1	119.4	122.0
77.5°	102.7	108.8	110.3	111.8	107.3	104.3	93.1	81.5	73.9	62.8	65.8
80°	57.2	59.7	59.7	60.2	57.7	54.2	46.6	40.0	36.4	31.4	31.9
82.5°	34.4	35.4	35.9	36.4	34.9	31.4	25.8	21.3	19.2	16.7	16.2
85°	16.7	17.7	17.7	18.2	15.7	13.7	10.6	8.1	7.1	5.1	5.6
87.5°	4.0	4.6	4.6	4.0	3.5	2.5	1.5	0.5	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)