

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: P636538

Luminaire Tested: GWS-SA4B-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9672.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

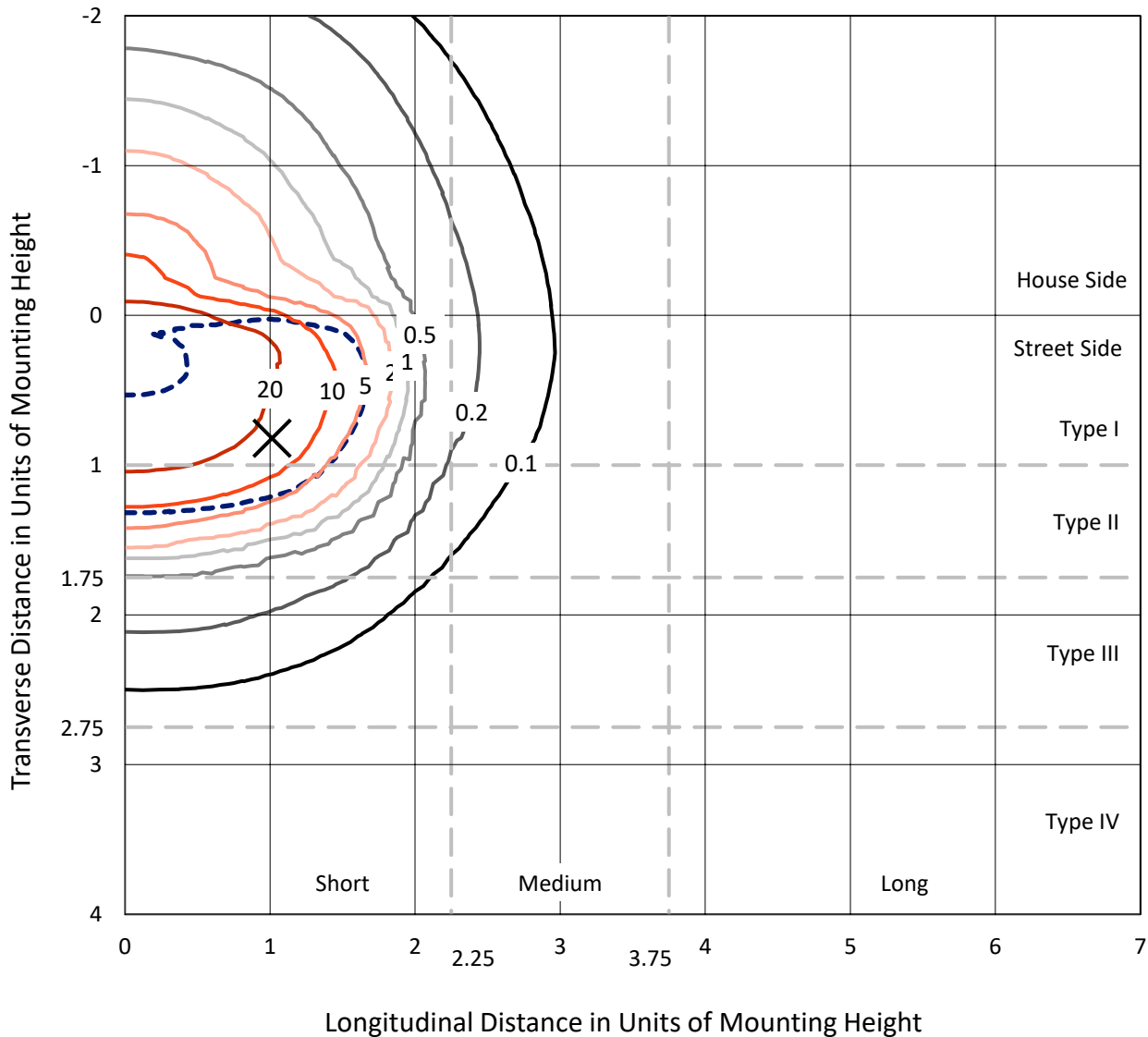
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

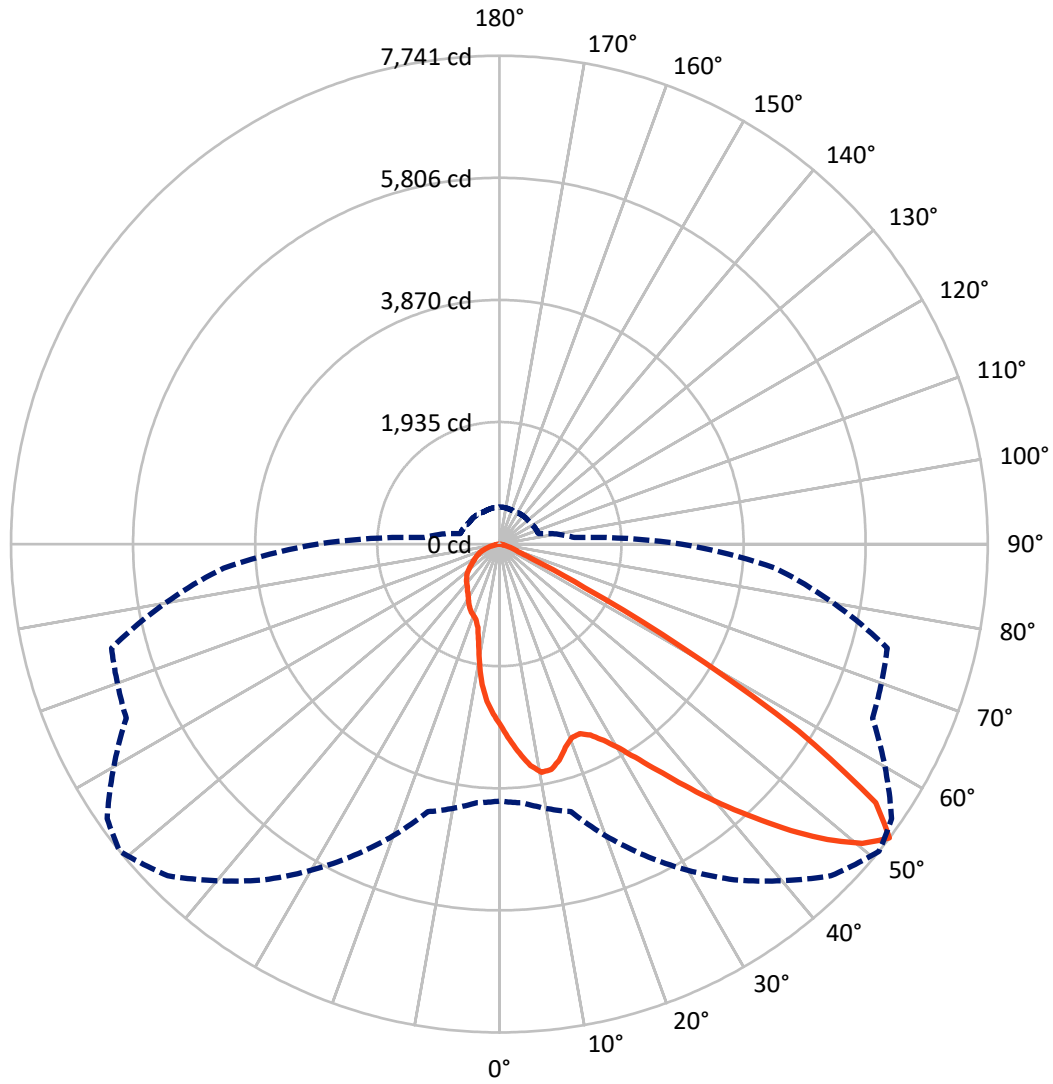
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.6	0.0	1884.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7787.7	0.0	7787.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	9672.3	0.0	9672.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.7	2.8
10°-20°	698.3	7.2
20°-30°	1135.4	11.7
30°-40°	1799.3	18.6
40°-50°	2713.7	28.1
50°-60°	2347.6	24.3
60°-70°	532.2	5.5
70°-80°	156.9	1.6
80°-90°	20.2	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°	9672.3	100.0
0°-180°	9672.3	100.0

Coefficient of Utilization



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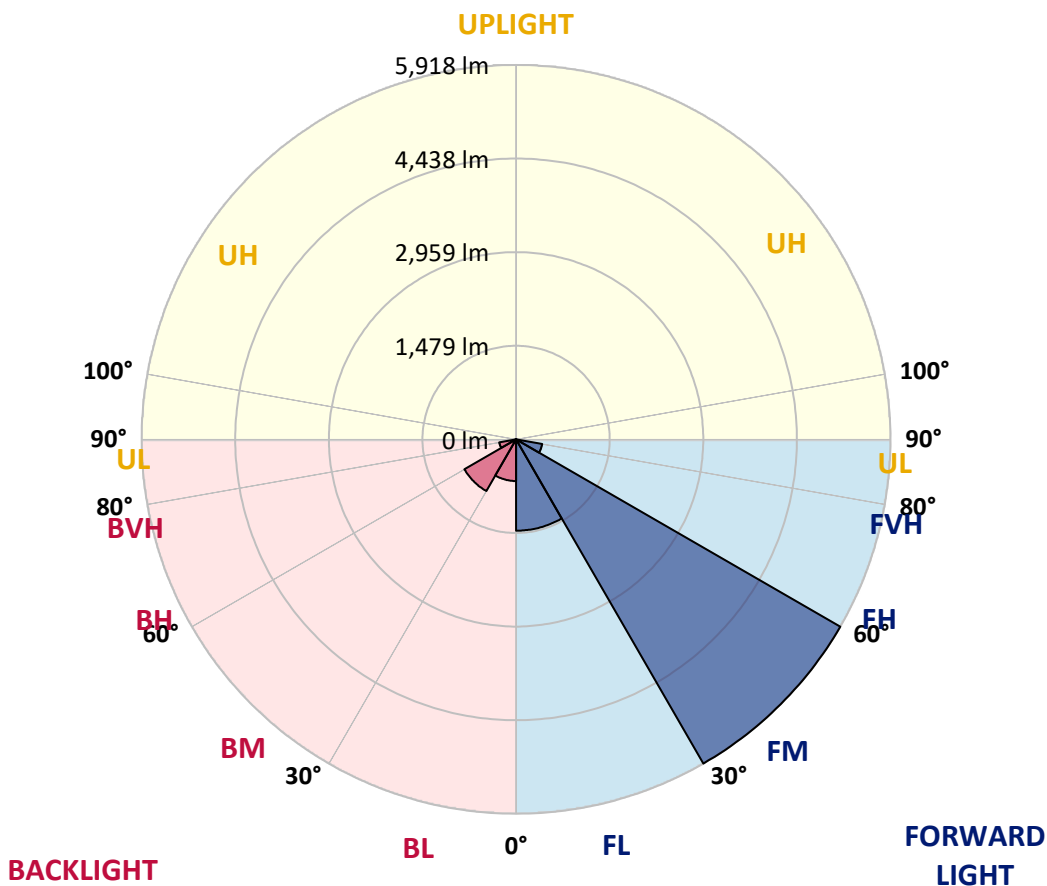
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.6	14.9			
FM (30°-60°)	5917.7	61.2			
FH (60°-80°)	418.8	4.3			G0/660
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	658.8	6.8	B2/1000		
BM (30°-60°)	942.9	9.7	B1/1000		
BH (60°-80°)	270.3	2.8	B1/500		G1/500
BVH (80°-90°)	12.6	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°	51°	55°	65°	75°	85°
0°	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9
2.5°	3209.3	3227.7	3199.4	3188.7	3171.1	3140.6	3105.4	3095.5	3019.8	2970.1	2914.3
5°	3531.9	3541.8	3518.9	3496.0	3452.4	3398.1	3330.1	3315.6	3178.0	3064.1	2945.7
7.5°	3603.7	3599.9	3619.8	3632.8	3627.4	3606.0	3545.6	3517.4	3353.0	3172.7	2997.6
10°	3319.4	3298.0	3371.4	3458.5	3563.2	3684.0	3677.1	3674.8	3531.9	3318.6	3064.1
12.5°	2942.6	2931.9	2991.5	3100.8	3298.8	3566.3	3666.4	3744.4	3693.2	3457.7	3138.3
15°	2727.1	2723.2	2763.8	2842.5	2999.9	3337.7	3551.8	3706.1	3831.5	3606.8	3217.0
17.5°	2688.1	2690.4	2704.1	2749.2	2862.3	3140.6	3388.2	3603.7	3939.3	3770.3	3315.6
20°	2802.0	2817.3	2793.6	2800.4	2861.6	3069.5	3276.6	3500.5	4008.1	3934.7	3421.8
22.5°	3055.0	3049.6	2997.6	2967.1	2967.8	3113.0	3264.4	3452.4	4053.1	4094.4	3518.1
25°	3341.6	3335.5	3273.5	3205.5	3162.7	3231.5	3352.3	3503.6	4093.7	4240.4	3595.3
27.5°	3680.2	3661.1	3592.3	3505.1	3410.4	3440.2	3521.9	3641.9	4156.3	4384.1	3646.5
30°	4008.1	4030.2	3931.6	3828.4	3728.3	3710.0	3757.4	3865.9	4284.0	4552.2	3707.7
32.5°	4442.9	4435.3	4326.0	4191.5	4048.6	4034.8	4072.3	4171.6	4513.3	4784.6	3800.9
35°	4969.6	4971.1	4815.9	4634.0	4430.7	4394.0	4456.7	4553.0	4854.9	5099.5	3948.4
37.5°	5516.8	5514.5	5379.2	5172.9	4895.4	4843.4	4915.3	4987.1	5282.2	5528.3	4177.7
40°	5900.5	5915.8	5852.3	5743.8	5480.9	5354.0	5417.4	5467.1	5746.9	6032.7	4479.6
42.5°	6118.3	6141.2	6155.0	6220.0	6081.6	5946.3	5923.4	5949.4	6161.9	6501.2	4763.2
45°	6164.9	6195.5	6295.6	6536.4	6589.9	6551.7	6476.8	6414.1	6471.4	6833.7	4948.9
47.5°	5959.3	6012.8	6226.8	6648.0	6960.6	7080.6	6997.3	6901.7	6650.3	6919.3	4929.8
50°	5144.6	5207.3	5689.5	6420.2	7013.3	7450.5	7458.2	7316.8	6628.9	6672.4	4689.8
52.5°	4073.0	4115.8	4391.7	5442.7	6495.9	7435.2	7740.9	7589.6	6525.7	6363.7	4389.4
55°	2434.3	2503.1	2760.7	3590.7	5060.5	6589.9	7241.1	7314.5	6475.2	6104.6	4184.6
57.5°	821.6	855.3	1101.4	1585.9	2982.3	4825.1	5594.8	5892.8	5878.3	5708.6	3784.9
60°	391.3	399.0	448.7	601.5	1193.9	2521.5	3311.8	3655.7	3969.1	4000.4	2354.8
62.5°	298.1	302.7	327.9	360.8	480.0	1062.4	1517.9	1780.8	1902.4	1632.6	857.6
65°	249.2	253.0	272.1	292.7	326.4	460.1	582.4	671.8	605.3	471.6	408.9
67.5°	207.9	211.0	225.5	247.6	270.6	308.0	323.3	332.5	348.5	391.3	376.0
70°	162.8	165.9	181.1	200.2	222.4	231.6	246.1	255.3	287.4	342.4	340.9
72.5°	125.3	129.2	137.6	149.8	168.1	177.3	193.4	204.1	222.4	266.7	285.1
75°	91.7	94.0	101.7	105.5	107.8	105.5	121.5	133.8	158.2	175.0	179.6
77.5°	37.5	42.0	40.5	40.5	48.2	58.1	66.5	74.1	91.0	100.9	101.7
80°	15.3	16.8	19.9	22.2	26.8	34.4	39.7	42.8	50.4	56.6	61.1
82.5°	9.2	9.9	11.5	12.2	15.3	19.9	22.9	25.2	31.3	37.5	39.7
85°	4.6	4.6	5.4	6.1	7.6	9.2	10.7	12.2	16.1	19.9	22.2
87.5°	0.8	0.8	0.8	1.5	2.3	3.1	3.8	4.6	5.4	6.1	7.6
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°	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9
2.5°	2881.5	2840.2	2792.0	2753.8	2709.5	2676.6	2630.0	2601.0	2573.4	2550.5	2533.7
5°	2884.5	2815.0	2714.8	2626.2	2534.5	2447.3	2357.9	2285.3	2220.3	2166.1	2161.5
7.5°	2902.1	2802.0	2645.3	2490.1	2311.3	2138.5	1965.8	1825.2	1718.2	1662.4	1650.9
10°	2931.9	2800.4	2574.2	2326.6	2021.6	1743.4	1538.6	1431.6	1369.6	1347.5	1339.8
12.5°	2963.2	2796.6	2483.2	2095.7	1672.3	1428.5	1316.1	1303.2	1314.6	1316.1	1315.4
15°	3001.5	2794.3	2368.6	1825.2	1417.0	1282.5	1290.2	1317.7	1344.4	1350.5	1350.5
17.5°	3048.1	2789.0	2212.7	1560.7	1257.3	1254.2	1294.7	1331.4	1356.7	1361.2	1361.2
20°	3097.0	2775.2	2020.8	1345.2	1192.3	1236.7	1280.2	1308.5	1326.1	1332.2	1333.0
22.5°	3130.6	2738.5	1800.0	1185.4	1151.8	1203.0	1234.4	1263.4	1263.4	1248.1	1243.5
25°	3137.5	2659.8	1560.7	1076.2	1103.7	1151.1	1183.2	1166.3	1135.0	1122.8	1122.0
27.5°	3112.3	2545.2	1324.6	998.2	1045.6	1093.0	1087.6	1063.2	1049.4	1037.2	1041.8
30°	3081.7	2407.6	1119.7	934.0	978.3	1024.9	1006.6	998.2	988.3	974.5	977.6
32.5°	3061.1	2254.0	962.3	884.3	933.2	940.9	953.9	953.1	943.9	917.9	916.4
35°	3067.2	2098.8	856.8	843.8	895.8	892.7	917.2	912.6	849.2	813.2	810.9
37.5°	3116.1	1949.8	794.9	811.7	836.2	855.3	876.7	821.6	799.5	776.5	778.1
40°	3209.3	1811.4	761.3	794.1	800.2	828.5	778.8	778.1	768.1	747.5	746.7
42.5°	3314.8	1694.5	738.3	785.7	777.3	782.7	729.9	736.0	735.3	722.3	718.5
45°	3379.0	1586.7	720.0	754.4	756.7	703.2	687.1	694.0	697.8	690.9	690.2
47.5°	3312.5	1462.9	700.9	706.2	726.1	667.2	647.4	648.1	655.0	655.8	652.7
50°	3126.0	1324.6	677.9	665.0	652.0	629.8	611.4	607.6	614.5	621.4	623.7
52.5°	2885.3	1192.3	639.7	619.9	589.3	589.3	580.9	568.6	577.8	587.0	590.0
55°	2708.7	1094.5	585.5	563.3	529.7	541.1	539.6	528.9	541.1	548.0	550.3
57.5°	2347.2	879.7	515.1	508.3	480.0	493.7	496.8	483.0	476.9	478.5	480.8
60°	1393.3	567.9	464.7	463.9	438.7	454.8	463.9	450.2	431.8	434.1	437.2
62.5°	625.2	434.1	401.3	398.2	397.4	418.1	428.0	415.0	389.0	391.3	394.4
65°	393.6	375.3	348.5	348.5	360.8	378.3	386.0	375.3	345.5	341.6	344.7
67.5°	365.3	349.3	321.8	316.4	322.5	337.1	337.8	317.2	299.6	296.6	296.6
70°	327.9	315.7	288.9	278.2	275.9	275.2	272.9	267.5	256.0	253.0	254.5
72.5°	271.3	262.9	246.1	234.6	228.5	227.8	218.6	214.0	204.1	202.5	201.8
75°	179.6	181.9	181.9	180.4	175.0	172.7	162.8	158.2	146.7	142.2	141.4
77.5°	106.2	108.5	111.6	112.4	111.6	111.6	102.4	97.1	85.6	79.5	78.0
80°	65.0	66.5	68.0	70.3	67.3	65.0	56.6	51.2	45.9	42.0	41.3
82.5°	42.0	43.6	44.3	45.9	44.3	41.3	34.4	31.3	27.5	24.5	23.7
85°	23.7	24.5	26.0	26.0	23.7	21.4	17.6	15.3	13.0	11.5	11.5
87.5°	8.4	8.4	8.4	9.2	7.6	6.9	4.6	3.1	2.3	2.3	2.3
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)