

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: P633568

Luminaire Tested: GWS-SA2F-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633568
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-SA2F-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10840.6 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

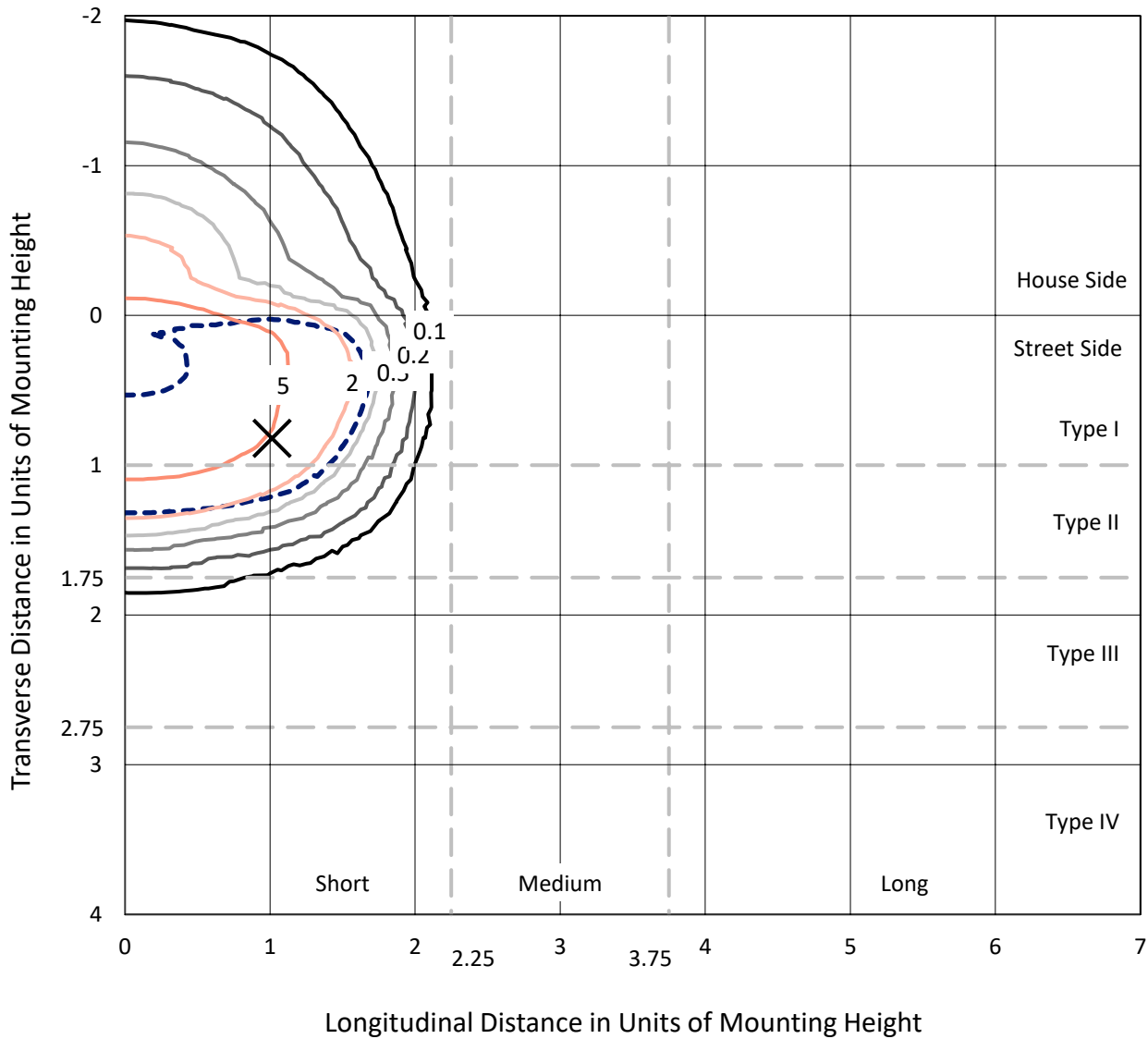
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

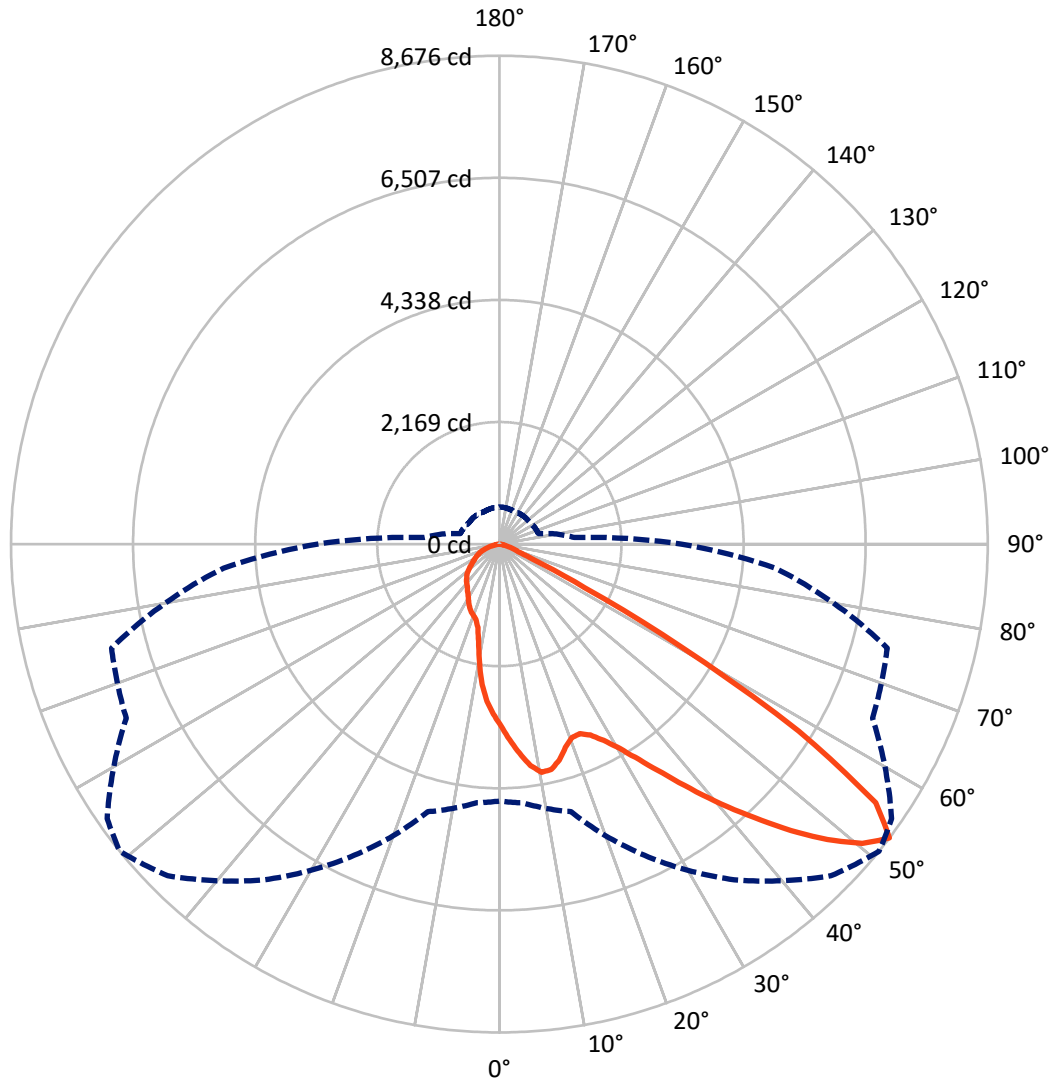
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 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	2112.2	0.0	2112.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8728.4	0.0	8728.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	10840.6	0.0	10840.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	2.8
10°-20°	782.6	7.2
20°-30°	1272.5	11.7
30°-40°	2016.6	18.6
40°-50°	3041.5	28.1
50°-60°	2631.1	24.3
60°-70°	596.5	5.5
70°-80°	175.9	1.6
80°-90°	22.7	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°	10840.6	100.0
0°-180°	10840.6	100.0

Coefficient of Utilization



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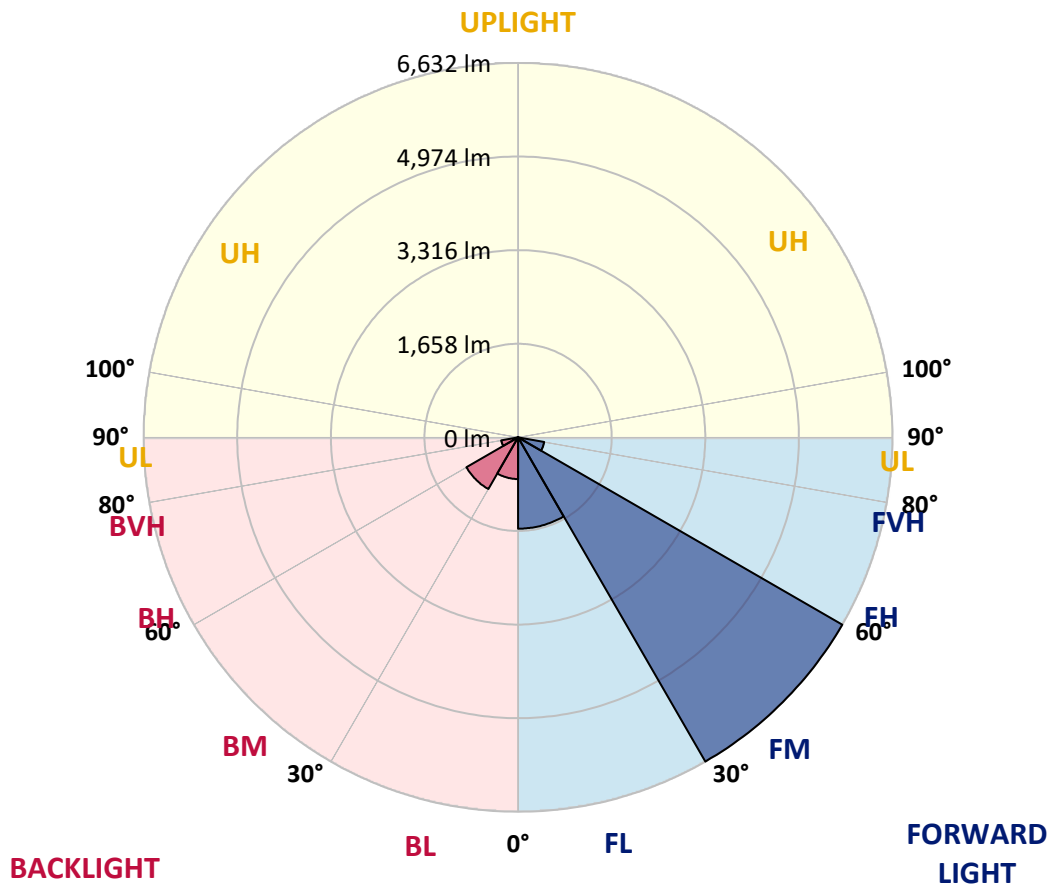
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.0	14.9			
FM (30°-60°)	6632.4	61.2			
FH (60°-80°)	469.4	4.3			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	738.3	6.8	B2/1000		
BM (30°-60°)	1056.8	9.7	B2/2500		
BH (60°-80°)	302.9	2.8	B1/500		G1/500
BVH (80°-90°)	14.1	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°	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8
2.5°	3597.0	3617.6	3585.9	3573.9	3554.2	3519.9	3480.5	3469.4	3384.6	3328.9	3266.3
5°	3958.5	3969.6	3943.9	3918.2	3869.4	3808.6	3732.3	3716.1	3561.9	3434.2	3301.5
7.5°	4039.0	4034.7	4057.0	4071.6	4065.6	4041.6	3973.9	3942.2	3758.0	3555.9	3359.7
10°	3720.4	3696.4	3778.6	3876.3	3993.6	4129.0	4121.3	4118.7	3958.5	3719.5	3434.2
12.5°	3298.0	3286.0	3352.9	3475.4	3697.2	3997.0	4109.3	4196.6	4139.2	3875.4	3517.3
15°	3056.5	3052.2	3097.6	3185.8	3362.3	3740.9	3980.8	4153.8	4294.3	4042.4	3605.6
17.5°	3012.8	3015.3	3030.8	3081.3	3208.1	3519.9	3797.4	4039.0	4415.1	4225.8	3716.1
20°	3140.4	3157.5	3131.0	3138.7	3207.2	3440.2	3672.4	3923.4	4492.2	4409.9	3835.1
22.5°	3424.0	3418.0	3359.7	3325.4	3326.3	3489.1	3658.7	3869.4	4542.7	4589.0	3943.1
25°	3745.2	3738.3	3669.0	3592.7	3544.7	3621.8	3757.2	3926.8	4588.1	4752.6	4029.6
27.5°	4124.7	4103.3	4026.2	3928.5	3822.3	3855.7	3947.4	4081.8	4658.4	4913.6	4087.0
30°	4492.2	4517.0	4406.5	4290.9	4178.6	4158.1	4211.2	4332.8	4801.4	5102.1	4155.5
32.5°	4979.6	4971.0	4848.5	4697.8	4537.6	4522.2	4564.1	4675.5	5058.4	5362.5	4260.0
35°	5569.8	5571.5	5397.6	5193.8	4965.9	4924.8	4995.0	5103.0	5441.3	5715.4	4425.4
37.5°	6183.2	6180.6	6029.0	5797.7	5486.7	5428.5	5509.0	5589.5	5920.2	6196.0	4682.3
40°	6613.2	6630.3	6559.2	6437.6	6142.9	6000.7	6071.8	6127.5	6441.0	6761.4	5020.7
42.5°	6857.3	6883.0	6898.5	6971.3	6816.2	6664.6	6638.9	6668.0	6906.2	7286.5	5338.5
45°	6909.6	6943.9	7056.1	7325.9	7385.9	7343.0	7259.1	7188.9	7253.1	7659.1	5546.7
47.5°	6679.2	6739.1	6979.0	7451.0	7801.3	7935.8	7842.5	7735.4	7453.6	7755.1	5525.3
50°	5766.0	5836.2	6376.8	7195.7	7860.5	8350.4	8359.0	8200.5	7429.6	7478.4	5256.3
52.5°	4565.0	4613.0	4922.2	6100.1	7280.5	8333.3	8676.0	8506.4	7313.9	7132.3	4919.6
55°	2728.4	2805.5	3094.2	4024.5	5671.8	7385.9	8115.7	8198.0	7257.4	6841.9	4690.1
57.5°	920.9	958.6	1234.4	1777.5	3342.6	5407.9	6270.5	6604.6	6588.4	6398.2	4242.0
60°	438.6	447.2	502.8	674.2	1338.1	2826.0	3711.8	4097.3	4448.5	4483.6	2639.3
62.5°	334.1	339.2	367.5	404.3	538.0	1190.7	1701.3	1996.0	2132.2	1829.8	961.1
65°	279.3	283.5	305.0	328.1	365.8	515.7	652.8	753.0	678.5	528.5	458.3
67.5°	233.0	236.4	252.7	277.5	303.2	345.2	362.4	372.6	390.6	438.6	421.5
70°	182.5	185.9	203.0	224.4	249.3	259.6	275.8	286.1	322.1	383.8	382.1
72.5°	140.5	144.8	154.2	167.9	188.5	198.7	216.7	228.7	249.3	299.0	319.5
75°	102.8	105.4	113.9	118.2	120.8	118.2	136.2	149.9	177.3	196.2	201.3
77.5°	42.0	47.1	45.4	45.4	54.0	65.1	74.5	83.1	101.9	113.1	113.9
80°	17.1	18.8	22.3	24.8	30.0	38.5	44.5	48.0	56.5	63.4	68.5
82.5°	10.3	11.1	12.8	13.7	17.1	22.3	25.7	28.3	35.1	42.0	44.5
85°	5.1	5.1	6.0	6.9	8.6	10.3	12.0	13.7	18.0	22.3	24.8
87.5°	0.9	0.9	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.9	8.6
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°	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8
2.5°	3229.5	3183.2	3129.3	3086.4	3036.8	2999.9	2947.7	2915.1	2884.3	2858.6	2839.7
5°	3232.9	3155.0	3042.8	2943.4	2840.6	2742.9	2642.7	2561.3	2488.5	2427.7	2422.6
7.5°	3252.6	3140.4	2964.8	2790.9	2590.5	2396.9	2203.3	2045.6	1925.7	1863.2	1850.3
10°	3286.0	3138.7	2885.1	2607.6	2265.8	1954.0	1724.4	1604.5	1535.1	1510.2	1501.7
12.5°	3321.2	3134.4	2783.2	2348.9	1874.3	1601.0	1475.1	1460.6	1473.4	1475.1	1474.3
15°	3364.0	3131.8	2654.7	2045.6	1588.2	1437.4	1446.0	1476.8	1506.8	1513.7	1513.7
17.5°	3416.2	3125.8	2479.9	1749.2	1409.2	1405.7	1451.1	1492.3	1520.5	1525.7	1525.7
20°	3471.1	3110.4	2264.9	1507.7	1336.3	1386.0	1434.9	1466.6	1486.3	1493.1	1494.0
22.5°	3508.8	3069.3	2017.4	1328.6	1290.9	1348.3	1383.5	1416.0	1416.0	1398.9	1393.7
25°	3516.5	2981.1	1749.2	1206.1	1237.0	1290.1	1326.1	1307.2	1272.1	1258.4	1257.5
27.5°	3488.2	2852.6	1484.5	1118.8	1171.9	1225.0	1219.0	1191.6	1176.2	1162.4	1167.6
30°	3453.9	2698.4	1255.0	1046.8	1096.5	1148.7	1128.2	1118.8	1107.6	1092.2	1095.6
32.5°	3430.8	2526.2	1078.5	991.1	1045.9	1054.5	1069.1	1068.2	1057.9	1028.8	1027.1
35°	3437.7	2352.3	960.3	945.7	1004.0	1000.5	1028.0	1022.8	951.7	911.5	908.9
37.5°	3492.5	2185.3	890.9	909.7	937.2	958.6	982.6	920.9	896.0	870.3	872.1
40°	3597.0	2030.2	853.2	890.0	896.9	928.6	872.9	872.1	860.9	837.8	836.9
42.5°	3715.2	1899.2	827.5	880.6	871.2	877.2	818.1	824.9	824.1	809.5	805.2
45°	3787.2	1778.4	806.9	845.5	848.1	788.1	770.1	777.8	782.1	774.4	773.5
47.5°	3712.6	1639.6	785.5	791.5	813.8	747.8	725.6	726.4	734.1	735.0	731.6
50°	3503.6	1484.5	759.8	745.3	730.7	705.9	685.3	681.0	688.7	696.4	699.0
52.5°	3233.8	1336.3	717.0	694.7	660.5	660.5	651.0	637.3	647.6	657.9	661.3
55°	3035.9	1226.7	656.2	631.3	593.6	606.5	604.8	592.8	606.5	614.2	616.8
57.5°	2630.7	986.0	577.4	569.7	538.0	553.4	556.8	541.4	534.5	536.3	538.8
60°	1561.6	636.5	520.8	520.0	491.7	509.7	520.0	504.6	484.0	486.6	490.0
62.5°	700.7	486.6	449.7	446.3	445.4	468.6	479.7	465.2	436.0	438.6	442.0
65°	441.2	420.6	390.6	390.6	404.3	424.0	432.6	420.6	387.2	382.9	386.3
67.5°	409.5	391.5	360.6	354.6	361.5	377.8	378.6	355.5	335.8	332.4	332.4
70°	367.5	353.8	323.8	311.8	309.2	308.4	305.8	299.8	287.0	283.5	285.3
72.5°	304.1	294.7	275.8	263.0	256.1	255.3	245.0	239.9	228.7	227.0	226.2
75°	201.3	203.9	203.9	202.2	196.2	193.6	182.5	177.3	164.5	159.3	158.5
77.5°	119.1	121.6	125.1	125.9	125.1	125.1	114.8	108.8	95.9	89.1	87.4
80°	72.8	74.5	76.2	78.8	75.4	72.8	63.4	57.4	51.4	47.1	46.3
82.5°	47.1	48.8	49.7	51.4	49.7	46.3	38.5	35.1	30.8	27.4	26.6
85°	26.6	27.4	29.1	29.1	26.6	24.0	19.7	17.1	14.6	12.8	12.8
87.5°	9.4	9.4	9.4	10.3	8.6	7.7	5.1	3.4	2.6	2.6	2.6
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)