

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: P632743

Luminaire Tested: GWS-SA2D-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632743
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-SA2D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10447.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

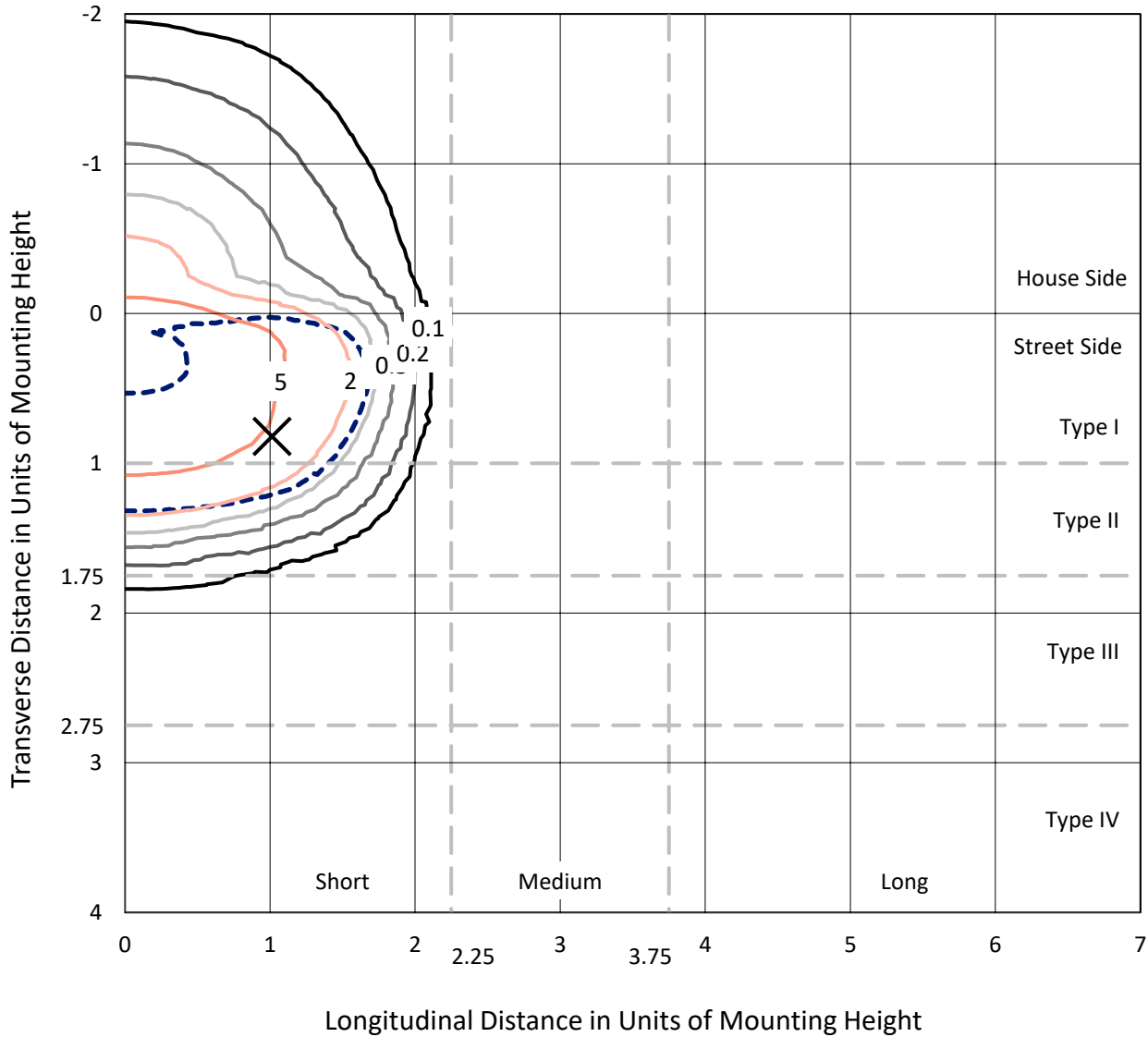
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

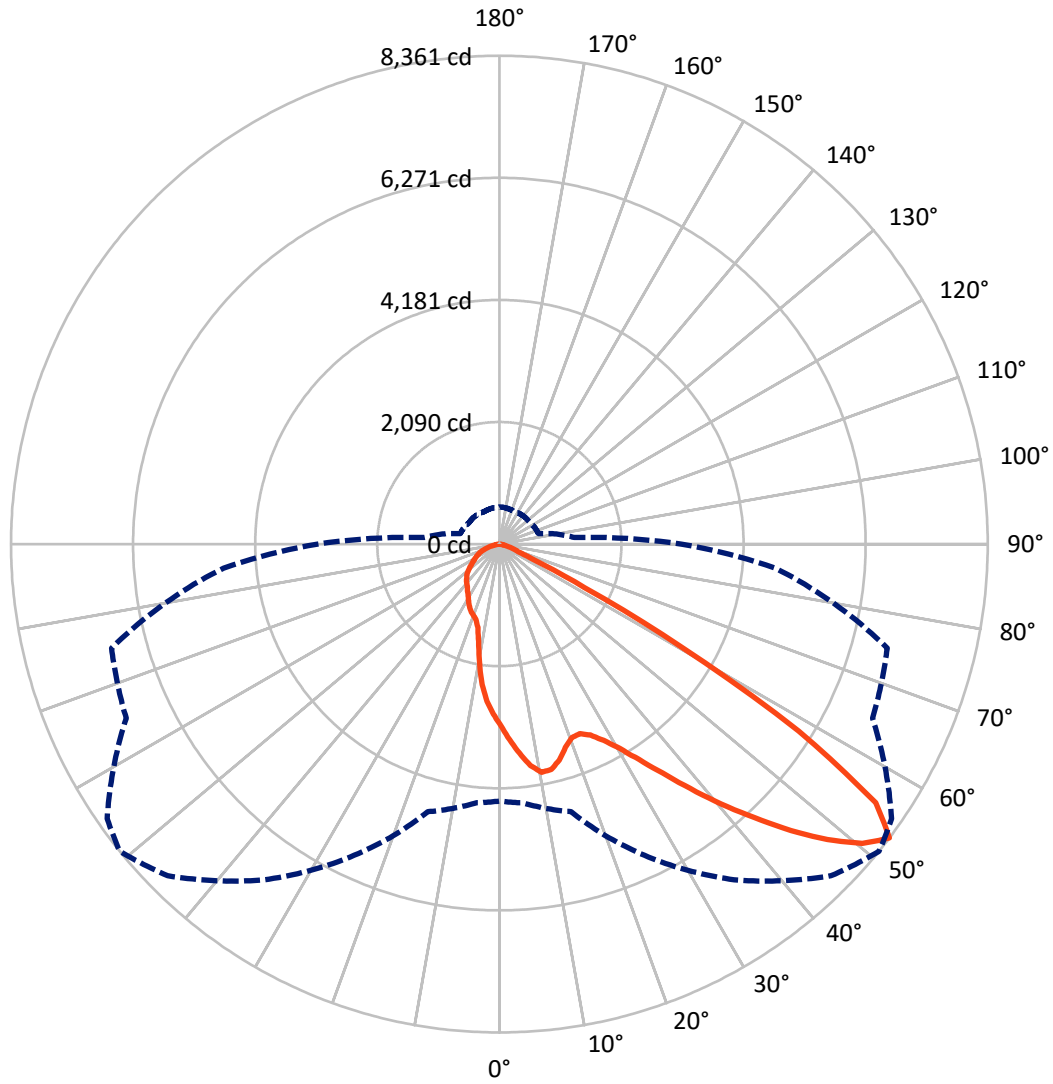
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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	2035.6	0.0	2035.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8411.8	0.0	8411.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	10447.4	0.0	10447.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	2.8
10°-20°	754.2	7.2
20°-30°	1226.3	11.7
30°-40°	1943.5	18.6
40°-50°	2931.2	28.1
50°-60°	2535.7	24.3
60°-70°	574.9	5.5
70°-80°	169.5	1.6
80°-90°	21.8	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°	10447.4	100.0
0°-180°	10447.4	100.0

Coefficient of Utilization



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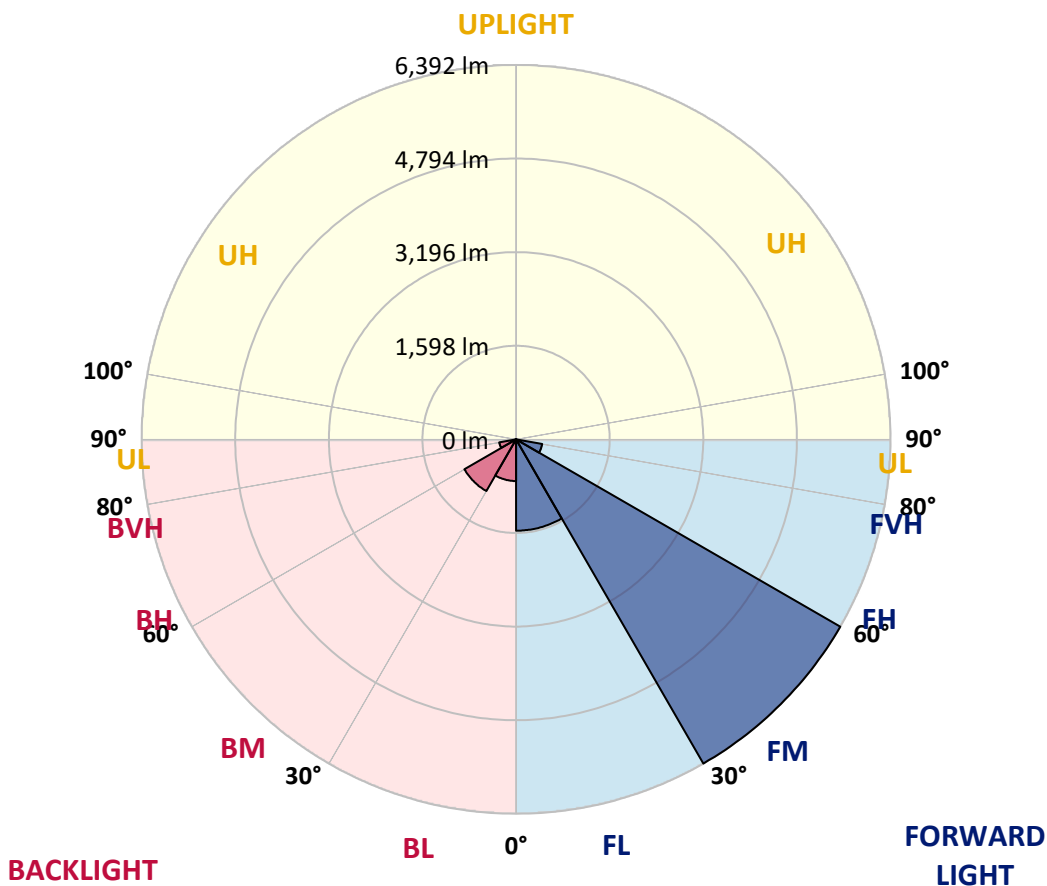
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.3	14.9			
FM (30°-60°)	6391.9	61.2			
FH (60°-80°)	452.4	4.3			G0/660
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	711.6	6.8	B2/1000		
BM (30°-60°)	1018.5	9.7	B2/2500		
BH (60°-80°)	292.0	2.8	B1/500		G1/500
BVH (80°-90°)	13.6	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°	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7
2.5°	3466.5	3486.3	3455.8	3444.2	3425.3	3392.2	3354.3	3343.5	3261.8	3208.1	3147.9
5°	3814.9	3825.6	3800.9	3776.1	3729.1	3670.4	3597.0	3581.3	3432.7	3309.7	3181.7
7.5°	3892.5	3888.4	3909.9	3923.9	3918.1	3895.0	3829.8	3799.2	3621.7	3426.9	3237.8
10°	3585.4	3562.3	3641.5	3735.7	3848.8	3979.2	3971.8	3969.3	3814.9	3584.6	3309.7
12.5°	3178.4	3166.9	3231.2	3349.3	3563.1	3852.1	3960.2	4044.4	3989.1	3734.8	3389.8
15°	2945.6	2941.5	2985.2	3070.3	3240.3	3605.2	3836.4	4003.1	4138.5	3895.8	3474.8
17.5°	2903.5	2906.0	2920.8	2969.5	3091.7	3392.2	3659.7	3892.5	4254.9	4072.5	3581.3
20°	3026.5	3043.0	3017.4	3024.9	3090.9	3315.5	3539.2	3781.1	4329.2	4250.0	3696.0
22.5°	3299.8	3294.0	3237.8	3204.8	3205.7	3362.5	3526.0	3729.1	4377.9	4422.5	3800.1
25°	3609.4	3602.7	3535.9	3462.4	3416.2	3490.5	3620.9	3784.4	4421.7	4580.2	3883.4
27.5°	3975.1	3954.4	3880.1	3786.0	3683.7	3715.8	3804.2	3933.8	4489.4	4735.4	3938.7
30°	4329.2	4353.2	4246.7	4135.2	4027.1	4007.3	4058.5	4175.7	4627.3	4917.0	4004.8
32.5°	4799.0	4790.7	4672.7	4527.4	4373.0	4358.1	4398.6	4505.9	4874.9	5168.0	4105.5
35°	5367.8	5369.4	5201.9	5005.4	4785.8	4746.1	4813.8	4917.9	5244.0	5508.1	4264.8
37.5°	5958.9	5956.4	5810.3	5587.4	5287.7	5231.6	5309.2	5386.8	5705.4	5971.3	4512.5
40°	6373.3	6389.8	6321.3	6204.1	5920.1	5783.1	5851.6	5905.2	6207.4	6516.1	4838.6
42.5°	6608.6	6633.4	6648.2	6718.4	6569.0	6422.9	6398.1	6426.2	6655.7	7022.2	5144.9
45°	6659.0	6692.0	6800.1	7060.2	7118.0	7076.7	6995.8	6928.1	6990.0	7381.3	5345.5
47.5°	6436.9	6494.7	6725.8	7180.7	7518.4	7648.0	7558.0	7454.8	7183.2	7473.8	5324.9
50°	5556.8	5624.5	6145.5	6934.7	7575.3	8047.6	8055.8	7903.1	7160.1	7207.1	5065.6
52.5°	4399.4	4445.6	4743.7	5878.8	7016.4	8031.1	8361.3	8197.8	7048.6	6873.6	4741.2
55°	2629.4	2703.7	2981.9	3878.5	5466.0	7118.0	7821.4	7900.6	6994.1	6593.8	4519.9
57.5°	887.5	923.8	1189.6	1713.0	3221.3	5211.8	6043.1	6365.1	6349.4	6166.1	4088.2
60°	422.7	430.9	484.6	649.7	1289.5	2723.5	3577.2	3948.7	4287.1	4321.0	2543.6
62.5°	322.0	326.9	354.2	389.7	518.5	1147.5	1639.6	1923.6	2054.8	1763.4	926.3
65°	269.1	273.3	293.9	316.2	352.5	497.0	629.1	725.7	653.8	509.4	441.7
67.5°	224.6	227.9	243.5	267.5	292.2	332.7	349.2	359.1	376.5	422.7	406.2
70°	175.8	179.1	195.7	216.3	240.2	250.1	265.8	275.7	310.4	369.9	368.2
72.5°	135.4	139.5	148.6	161.8	181.6	191.5	208.9	220.4	240.2	288.1	307.9
75°	99.1	101.5	109.8	113.9	116.4	113.9	131.3	144.5	170.9	189.1	194.0
77.5°	40.5	45.4	43.8	43.8	52.0	62.7	71.8	80.1	98.2	109.0	109.8
80°	16.5	18.2	21.5	23.9	28.9	37.2	42.9	46.2	54.5	61.1	66.0
82.5°	9.9	10.7	12.4	13.2	16.5	21.5	24.8	27.2	33.8	40.5	42.9
85°	5.0	5.0	5.8	6.6	8.3	9.9	11.6	13.2	17.3	21.5	23.9
87.5°	0.8	0.8	0.8	1.7	2.5	3.3	4.1	5.0	5.8	6.6	8.3
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°	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7	3110.7
2.5°	3112.4	3067.8	3015.8	2974.5	2926.6	2891.1	2840.8	2809.4	2779.7	2754.9	2736.7
5°	3115.7	3040.5	2932.4	2836.6	2737.6	2643.4	2546.9	2468.4	2398.3	2339.6	2334.7
7.5°	3134.7	3026.5	2857.3	2689.7	2496.5	2309.9	2123.3	1971.4	1855.9	1795.6	1783.2
10°	3166.9	3024.9	2780.5	2513.0	2183.6	1883.1	1661.9	1546.3	1479.4	1455.5	1447.2
12.5°	3200.7	3020.7	2682.2	2263.7	1806.3	1543.0	1421.6	1407.6	1420.0	1421.6	1420.8
15°	3242.0	3018.2	2558.4	1971.4	1530.6	1385.3	1393.5	1423.3	1452.2	1458.8	1458.8
17.5°	3292.3	3012.5	2390.0	1685.8	1358.0	1354.7	1398.5	1438.1	1465.4	1470.3	1470.3
20°	3345.2	2997.6	2182.8	1453.0	1287.9	1335.8	1382.8	1413.4	1432.3	1439.0	1439.8
22.5°	3381.5	2958.0	1944.2	1280.4	1244.1	1299.4	1333.3	1364.7	1364.7	1348.1	1343.2
25°	3388.9	2873.0	1685.8	1162.4	1192.1	1243.3	1278.0	1259.8	1226.0	1212.7	1211.9
27.5°	3361.7	2749.1	1430.7	1078.2	1129.4	1180.6	1174.8	1148.4	1133.5	1120.3	1125.2
30°	3328.7	2600.5	1209.4	1008.8	1056.7	1107.1	1087.3	1078.2	1067.4	1052.6	1055.9
32.5°	3306.4	2434.6	1039.4	955.2	1008.0	1016.3	1030.3	1029.5	1019.6	991.5	989.8
35°	3313.0	2267.0	925.5	911.4	967.6	964.3	990.7	985.7	917.2	878.4	875.9
37.5°	3365.8	2106.0	858.6	876.7	903.2	923.8	946.9	887.5	863.5	838.8	840.4
40°	3466.5	1956.6	822.3	857.8	864.4	894.9	841.2	840.4	829.7	807.4	806.6
42.5°	3580.5	1830.3	797.5	848.7	839.6	845.4	788.4	795.0	794.2	780.2	776.0
45°	3649.8	1713.9	777.7	814.8	817.3	759.5	742.2	749.6	753.7	746.3	745.5
47.5°	3578.0	1580.1	757.0	762.8	784.3	720.7	699.2	700.1	707.5	708.3	705.0
50°	3376.5	1430.7	732.3	718.2	704.2	680.3	660.4	656.3	663.8	671.2	673.7
52.5°	3116.5	1287.9	691.0	669.5	636.5	636.5	627.4	614.2	624.1	634.0	637.3
55°	2925.8	1182.2	632.4	608.4	572.1	584.5	582.8	571.3	584.5	591.9	594.4
57.5°	2535.3	950.2	556.4	549.0	518.5	533.3	536.6	521.8	515.1	516.8	519.3
60°	1505.0	613.4	501.9	501.1	473.9	491.2	501.1	486.3	466.4	468.9	472.2
62.5°	675.3	468.9	433.4	430.1	429.3	451.6	462.3	448.3	420.2	422.7	426.0
65°	425.2	405.4	376.5	376.5	389.7	408.7	416.9	405.4	373.2	369.0	372.3
67.5°	394.6	377.3	347.6	341.8	348.4	364.1	364.9	342.6	323.6	320.3	320.3
70°	354.2	341.0	312.1	300.5	298.0	297.2	294.7	288.9	276.6	273.3	274.9
72.5°	293.1	284.0	265.8	253.4	246.8	246.0	236.1	231.2	220.4	218.8	217.9
75°	194.0	196.5	196.5	194.8	189.1	186.6	175.8	170.9	158.5	153.6	152.7
77.5°	114.8	117.2	120.5	121.4	120.5	120.5	110.6	104.8	92.5	85.9	84.2
80°	70.2	71.8	73.5	76.0	72.6	70.2	61.1	55.3	49.5	45.4	44.6
82.5°	45.4	47.1	47.9	49.5	47.9	44.6	37.2	33.8	29.7	26.4	25.6
85°	25.6	26.4	28.1	28.1	25.6	23.1	19.0	16.5	14.0	12.4	12.4
87.5°	9.1	9.1	9.1	9.9	8.3	7.4	5.0	3.3	2.5	2.5	2.5
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)