

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: P638995

Luminaire Tested: GWS-SA4F-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16952.2 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

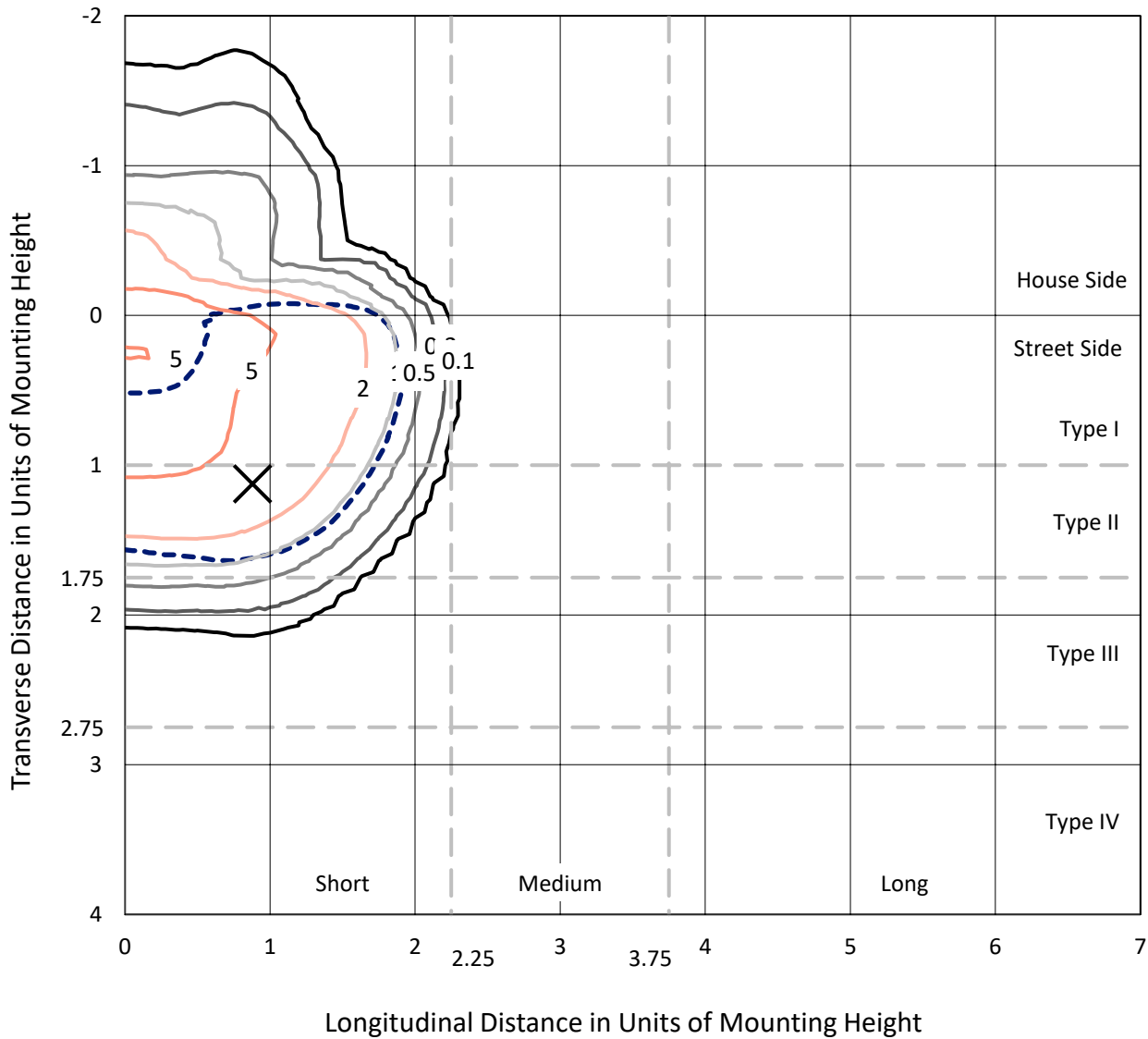
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

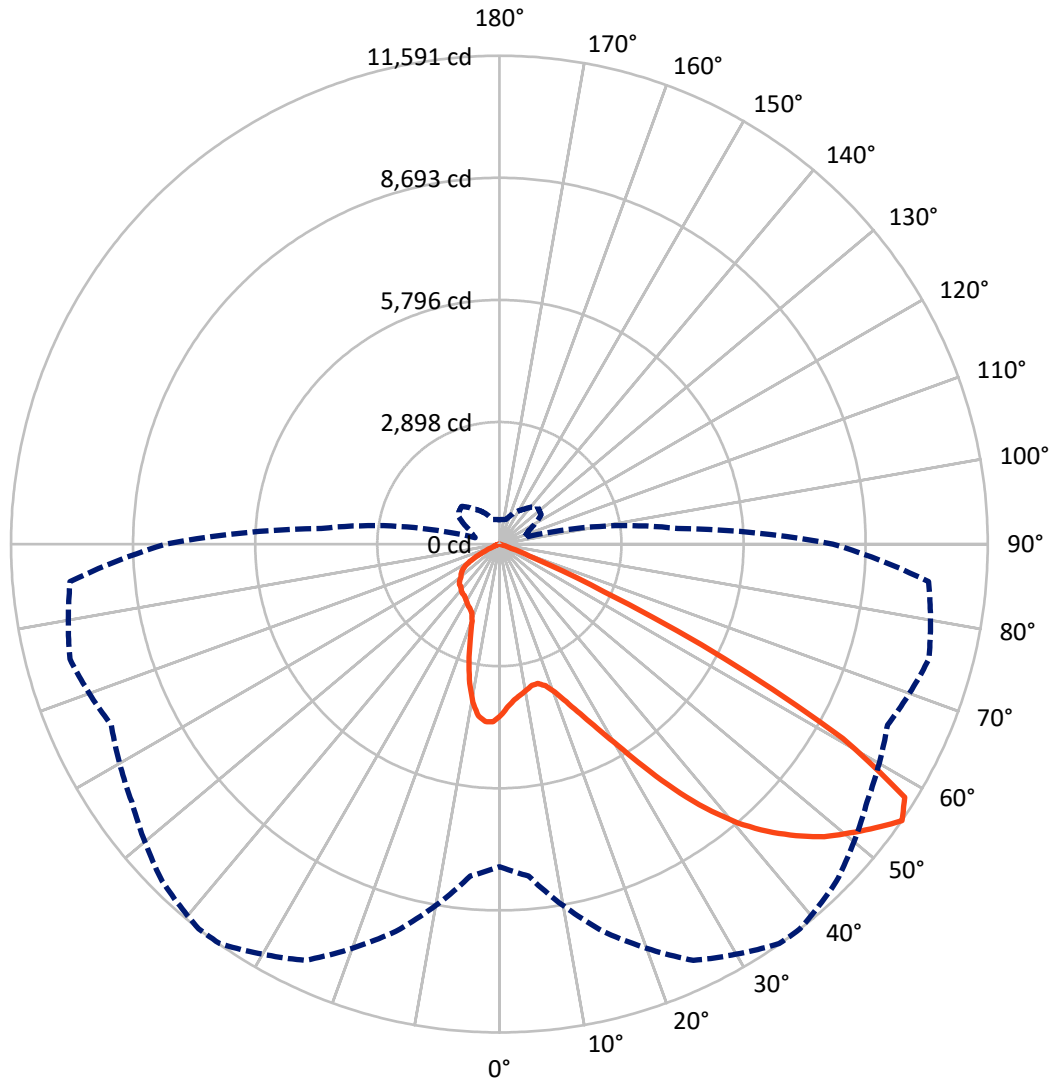
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3302.8	0.0	3302.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13649.4	0.0	13649.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	16952.2	0.0	16952.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	2.2
10°-20°	1011.9	6.0
20°-30°	1736.5	10.2
30°-40°	2880.2	17.0
40°-50°	4234.0	25.0
50°-60°	4947.5	29.2
60°-70°	1677.1	9.9
70°-80°	85.7	0.5
80°-90°	3.4	0.0
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°	16952.2	100.0
0°-180°	16952.2	100.0

Coefficient of Utilization



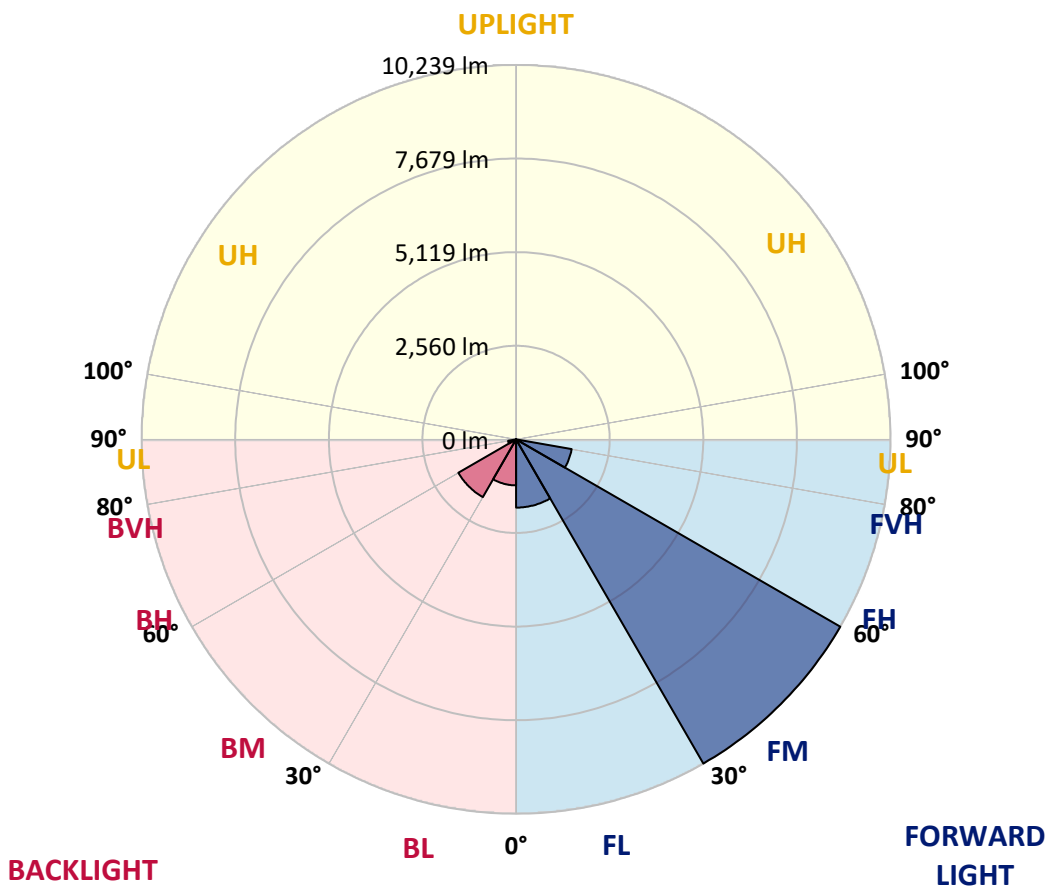
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.0	11.0			
FM (30°-60°)	10238.7	60.4			
FH (60°-80°)	1542.9	9.1			G1/1800
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1258.3	7.4	B3/2500		
BM (30°-60°)	1823.0	10.8	B2/2500		
BH (60°-80°)	219.9	1.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3
2.5°	3786.2	3778.5	3794.0	3825.0	3854.1	3863.7	3892.8	3933.5	3958.7	4018.8	4067.2
5°	3615.7	3611.8	3627.4	3654.5	3693.2	3706.8	3751.4	3819.2	3887.0	3991.6	4094.3
7.5°	3460.7	3458.8	3482.0	3542.1	3598.3	3615.7	3670.0	3753.3	3844.4	4005.2	4156.3
10°	3257.3	3259.2	3303.8	3389.0	3491.7	3526.6	3613.8	3733.9	3852.1	4059.5	4268.7
12.5°	3191.4	3195.2	3218.5	3284.4	3396.8	3441.3	3563.4	3745.5	3896.7	4137.0	4414.1
15°	3352.2	3352.2	3332.8	3340.6	3391.0	3431.6	3559.5	3784.3	3972.3	4230.0	4557.4
17.5°	3664.2	3652.5	3604.1	3538.2	3520.8	3534.3	3637.0	3867.6	4078.8	4338.5	4720.2
20°	4086.6	4090.5	3995.5	3857.9	3747.5	3745.5	3807.6	4014.9	4231.9	4468.3	4896.5
22.5°	4598.1	4582.6	4456.7	4268.7	4076.9	4061.4	4086.6	4239.7	4452.8	4673.7	5113.6
25°	5191.1	5183.3	5005.0	4753.1	4499.3	4462.5	4462.5	4613.6	4768.6	4966.3	5373.2
27.5°	5811.1	5811.1	5638.7	5348.0	5010.9	4945.0	4935.3	5113.6	5216.3	5255.0	5592.2
30°	6448.6	6440.9	6270.4	5972.0	5611.5	5543.7	5516.6	5648.4	5722.0	5605.7	5865.4
32.5°	7095.8	7109.4	6936.9	6659.8	6338.2	6293.6	6210.3	6210.3	6270.4	6107.6	6295.5
35°	7791.4	7787.6	7651.9	7464.0	7188.8	7138.4	7000.9	6785.8	6876.9	6805.2	6890.4
37.5°	8405.7	8434.8	8368.9	8229.4	8006.5	7956.1	7729.4	7340.0	7409.7	7522.1	7597.7
40°	9029.6	9052.9	9118.8	9074.2	8793.2	8700.2	8297.2	7657.7	7735.2	8120.8	8337.9
42.5°	9641.9	9653.6	9787.3	9860.9	9485.0	9322.2	8727.3	7851.5	7932.9	8589.8	8969.6
45°	10031.4	10056.6	10277.5	10502.3	10095.3	9872.5	9101.3	8099.5	8134.4	8915.3	9436.5
47.5°	10015.9	10074.0	10488.7	10897.6	10620.5	10380.2	9550.9	8496.8	8438.6	9221.5	9744.6
50°	9703.9	9773.7	10368.6	11017.7	10998.3	10775.5	10050.8	9072.3	8890.1	9492.7	9783.4
52.5°	9056.7	9258.3	10157.4	11033.2	11302.5	11190.1	10668.9	9847.3	9500.5	9882.2	9845.4
55°	7657.7	7905.8	9516.0	10901.4	11577.7	11591.2	11318.0	10655.3	10163.2	10552.6	10227.1
57.5°	5813.1	6010.7	7324.5	9703.9	11122.3	11345.2	11569.9	11081.6	10572.0	11009.9	10316.2
60°	3503.3	3732.0	4586.5	7121.0	8983.1	9362.9	10244.6	10149.6	9535.4	9723.3	8459.9
62.5°	1420.3	1540.5	2117.9	3923.8	5654.2	6008.8	6853.6	6997.0	6845.8	6654.0	5131.0
65°	519.3	567.7	848.7	1621.8	2600.4	2730.2	3175.9	3429.7	3639.0	3098.4	1908.6
67.5°	321.7	352.7	552.2	833.2	945.6	879.7	895.2	1067.7	1019.2	629.7	341.0
70°	238.3	263.5	432.1	577.4	381.7	294.5	199.6	213.1	191.8	168.6	166.6
72.5°	164.7	188.0	323.6	341.0	147.3	104.6	73.6	102.7	116.3	114.3	118.2
75°	108.5	125.9	203.5	133.7	36.8	29.1	25.2	54.3	69.8	69.8	71.7
77.5°	63.9	73.6	71.7	27.1	7.8	7.8	5.8	9.7	15.5	17.4	21.3
80°	7.8	5.8	3.9	3.9	3.9	3.9	3.9	3.9	5.8	5.8	5.8
82.5°	1.9	1.9	1.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8	5.8
85°	0.0	0.0	1.9	1.9	3.9	3.9	3.9	3.9	3.9	5.8	5.8
87.5°	0.0	0.0	1.9	1.9	3.9	3.9	3.9	3.9	3.9	5.8	5.8
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°	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3	4065.3
2.5°	4104.0	4090.5	4146.7	4187.3	4220.3	4235.8	4214.5	4212.5	4212.5	4169.9	4158.3
5°	4152.5	4158.3	4237.7	4272.6	4278.4	4259.0	4210.6	4177.7	4158.3	4113.7	4088.5
7.5°	4245.5	4264.8	4340.4	4334.6	4282.3	4193.2	4065.3	3966.4	3902.5	3832.7	3790.1
10°	4379.2	4416.0	4462.5	4381.1	4214.5	3987.8	3724.2	3536.3	3423.9	3344.4	3296.0
12.5°	4541.9	4578.8	4563.3	4371.4	4024.6	3619.6	3280.5	3009.2	2879.4	2807.7	2757.3
15°	4706.6	4729.9	4629.1	4255.2	3689.4	3144.9	2767.0	2497.7	2338.8	2280.7	2238.0
17.5°	4875.2	4869.4	4640.8	4026.5	3241.8	2610.1	2238.0	2053.9	2009.4	1999.7	1995.8
20°	5051.6	4999.2	4594.3	3699.0	2703.1	2081.1	1869.9	1881.5	1962.9	2001.6	2009.4
22.5°	5253.1	5121.3	4478.0	3255.3	2152.8	1734.2	1755.5	1869.9	1980.3	2032.6	2040.4
25°	5468.2	5233.7	4284.2	2685.6	1697.4	1594.7	1720.7	1852.4	1970.6	2034.6	2042.3
27.5°	5609.6	5260.8	3966.4	2112.1	1457.1	1540.5	1674.2	1800.1	1922.2	1991.9	2001.6
30°	5762.7	5249.2	3534.3	1627.7	1375.8	1494.0	1610.2	1724.5	1836.9	1914.4	1922.2
32.5°	5987.5	5241.4	3007.3	1321.5	1342.8	1457.1	1542.4	1637.3	1714.9	1759.4	1753.6
35°	6282.0	5231.8	2393.0	1191.7	1323.4	1428.1	1495.9	1540.5	1455.2	1428.1	1433.9
37.5°	6659.8	5255.0	1875.7	1137.4	1317.6	1420.3	1478.5	1350.6	1218.8	1168.4	1160.7
40°	7078.4	5315.1	1430.0	1116.1	1337.0	1439.7	1412.6	1201.4	1038.6	939.8	918.5
42.5°	7498.8	5381.0	1131.6	1108.4	1369.9	1494.0	1304.1	1092.9	848.7	792.5	784.8
45°	7810.8	5369.3	978.5	1094.8	1399.0	1525.0	1275.0	937.8	757.6	732.4	734.4
47.5°	7967.8	5241.4	895.2	1063.8	1410.6	1494.0	1203.3	873.9	695.6	722.8	746.0
50°	7884.4	4910.1	817.7	1003.7	1385.4	1453.3	1089.0	825.5	664.6	777.0	829.3
52.5°	7783.7	4503.2	732.4	910.7	1325.4	1397.1	1044.4	811.9	645.2	749.9	788.6
55°	7917.4	4245.5	592.9	767.3	1207.2	1265.3	1009.5	810.0	600.7	583.2	577.4
57.5°	7729.4	3732.0	424.4	552.2	926.2	1001.8	984.3	796.4	532.9	530.9	538.7
60°	5973.9	2276.8	290.7	350.7	567.7	639.4	893.3	761.5	459.2	422.4	424.4
62.5°	3394.8	968.8	199.6	217.0	290.7	344.9	682.1	691.8	424.4	403.0	424.4
65°	1182.0	346.8	155.0	145.3	160.8	184.1	391.4	534.8	385.6	348.8	352.7
67.5°	244.1	172.5	137.6	120.1	120.1	120.1	199.6	333.3	317.8	277.1	281.0
70°	155.0	147.3	120.1	102.7	98.8	91.1	114.3	184.1	219.0	201.5	203.5
72.5°	114.3	112.4	94.9	83.3	73.6	65.9	71.7	91.1	112.4	116.3	118.2
75°	69.8	71.7	62.0	52.3	46.5	40.7	42.6	42.6	42.6	38.8	42.6
77.5°	21.3	23.3	19.4	15.5	13.6	13.6	13.6	11.6	9.7	5.8	5.8
80°	5.8	5.8	5.8	5.8	5.8	3.9	3.9	1.9	1.9	0.0	0.0
82.5°	5.8	5.8	5.8	5.8	3.9	3.9	1.9	1.9	0.0	0.0	0.0
85°	5.8	5.8	5.8	5.8	3.9	3.9	1.9	1.9	0.0	0.0	0.0
87.5°	5.8	5.8	5.8	5.8	3.9	3.9	1.9	1.9	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)