

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: P636044

Luminaire Tested: GWS-SA3F-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15103.3 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

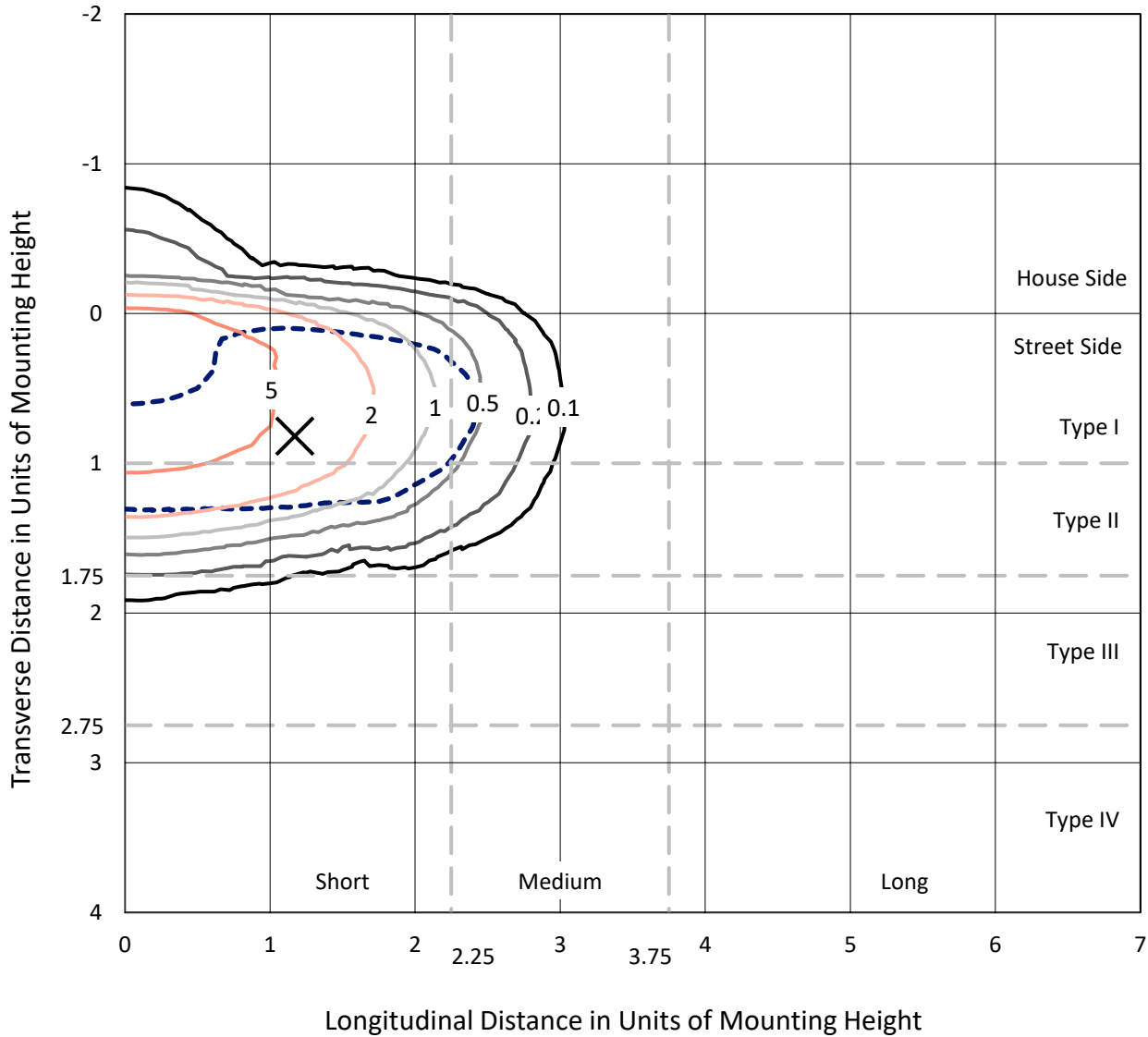
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

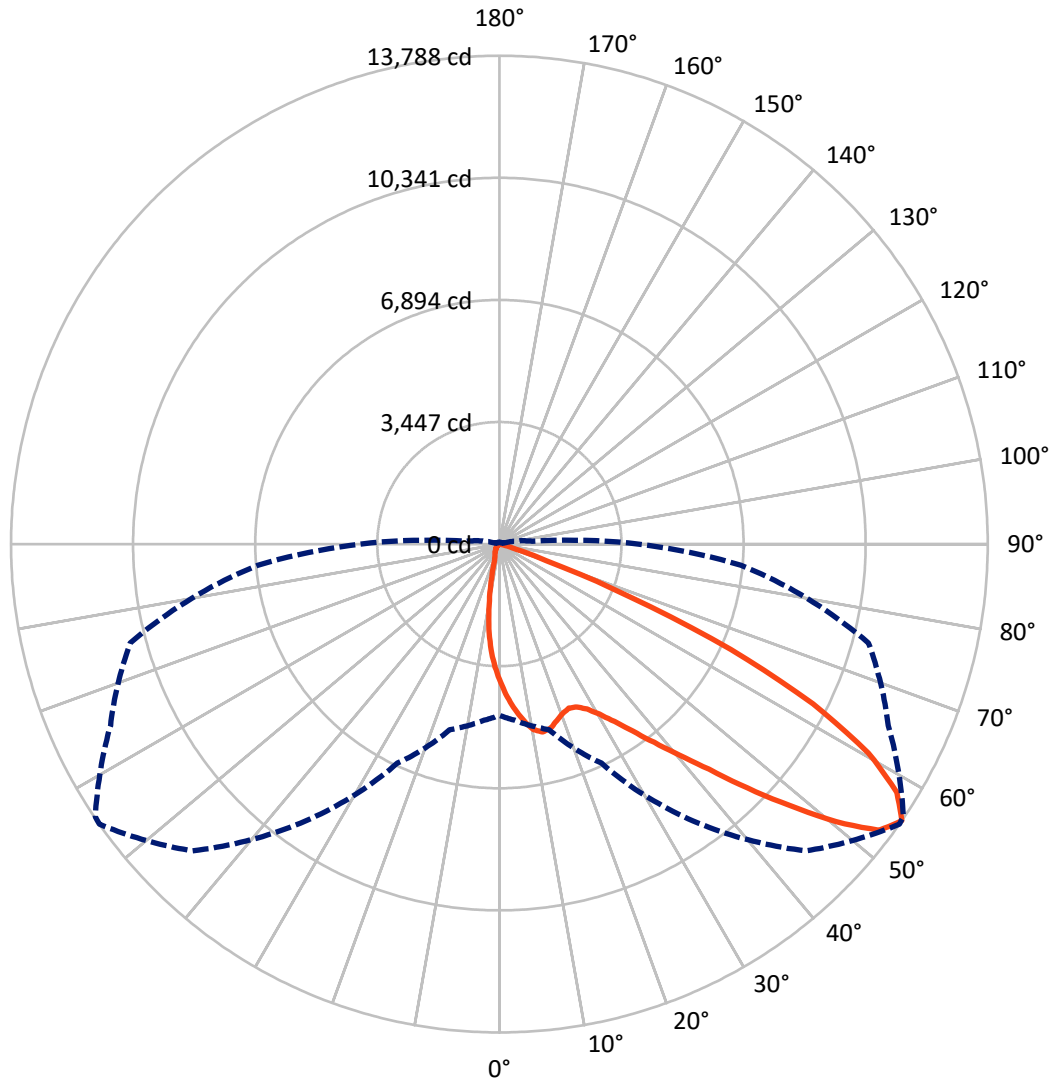
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	931.9	0.0	931.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14171.4	0.0	14171.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	15103.3	0.0	15103.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	2.3
10°-20°	831.3	5.5
20°-30°	1384.5	9.2
30°-40°	2359.3	15.6
40°-50°	3851.1	25.5
50°-60°	4032.0	26.7
60°-70°	2033.6	13.5
70°-80°	256.9	1.7
80°-90°	9.8	0.1
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°	15103.3	100.0
0°-180°	15103.3	100.0

Coefficient of Utilization



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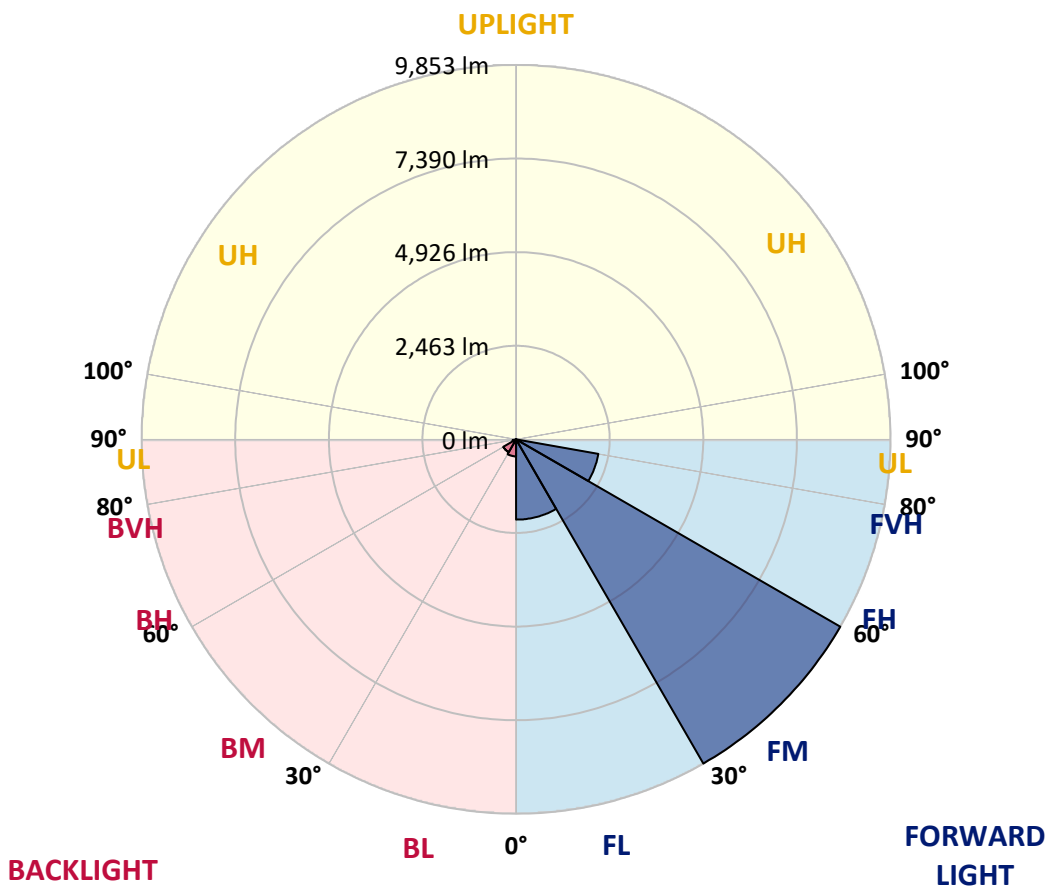
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.7	14.0			
FM (30°-60°)	9852.7	65.2			
FH (60°-80°)	2197.0	14.5			G2/5000
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	447.9	3.0	B1/500		
BM (30°-60°)	389.6	2.6	B1/1000		
BH (60°-80°)	93.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8
2.5°	4548.7	4526.7	4560.3	4521.6	4455.7	4400.2	4327.9	4302.1	4185.9	4076.1	3970.2
5°	5101.3	5107.7	5097.4	5043.2	4950.2	4846.9	4701.0	4668.7	4466.0	4256.9	4030.9
7.5°	5238.1	5234.3	5256.2	5276.9	5261.4	5209.7	5050.9	5018.6	4766.9	4453.1	4123.9
10°	4815.9	4818.5	4863.7	5003.1	5176.2	5355.6	5331.1	5313.0	5066.4	4675.2	4227.2
12.5°	4219.4	4242.7	4290.4	4489.3	4782.4	5190.4	5443.4	5461.5	5341.4	4919.2	4348.5
15°	3961.2	3966.4	4005.1	4125.2	4343.4	4846.9	5395.7	5446.0	5571.2	5164.5	4480.2
17.5°	3954.7	3961.2	3978.0	4030.9	4172.9	4577.1	5242.0	5329.8	5744.3	5427.9	4637.8
20°	4197.5	4193.6	4182.0	4153.6	4215.6	4488.0	5100.0	5196.8	5838.5	5684.9	4796.6
22.5°	4637.8	4632.6	4580.9	4463.5	4413.1	4569.3	5030.3	5118.1	5895.3	5913.4	4927.0
25°	5145.2	5181.3	5084.5	4906.3	4782.4	4777.2	5092.2	5154.2	5944.4	6116.1	5016.1
27.5°	5701.6	5713.3	5630.6	5430.5	5251.0	5110.3	5271.7	5318.2	5998.6	6296.9	5066.4
30°	6312.4	6308.5	6214.2	5981.8	5763.6	5560.9	5573.8	5591.9	6125.1	6503.4	5121.9
32.5°	7075.4	7092.2	6924.4	6608.0	6345.9	6065.7	5968.9	5971.5	6353.7	6769.4	5205.9
35°	8112.2	8070.9	7848.8	7398.2	6951.5	6649.3	6484.1	6469.9	6706.2	7127.1	5351.8
37.5°	9099.9	9103.8	8871.4	8375.6	7811.4	7334.9	7101.2	7062.5	7201.9	7622.9	5594.5
40°	9785.5	9798.4	9701.6	9442.1	8844.3	8170.3	7826.9	7786.8	7844.9	8250.3	5912.1
42.5°	10148.3	10184.5	10211.6	10272.3	9819.1	9213.5	8685.5	8681.6	8620.9	8965.6	6280.1
45°	10162.5	10216.7	10382.0	10796.5	10848.1	10404.0	9829.4	9742.9	9509.2	9731.3	6609.3
47.5°	9600.9	9726.1	10077.3	10898.5	11440.7	11587.9	11018.5	10965.6	10309.7	10336.8	6855.9
50°	8291.7	8422.1	9068.9	10375.6	11590.5	12527.9	12323.9	12214.1	10978.5	10737.1	6974.7
52.5°	6948.9	7067.7	7506.7	9130.9	10969.5	12823.5	13423.9	13293.5	11578.9	10876.5	6925.6
55°	4835.3	4994.1	5422.8	6824.9	9538.9	12247.7	13788.0	13760.9	12114.7	10788.7	6849.5
57.5°	2370.5	2528.0	2955.4	4207.8	7066.4	10693.2	13231.5	13374.9	12434.9	10694.5	6787.5
60°	990.3	1054.9	1202.0	1846.3	3953.5	8081.2	11975.3	12174.1	12238.7	10566.6	6781.0
62.5°	574.6	584.9	600.4	765.6	1537.7	4632.6	9934.0	10216.7	11207.0	10397.5	6679.0
65°	433.8	437.7	431.2	470.0	635.2	1757.2	7177.4	7562.2	9354.3	9736.4	6276.2
67.5°	356.4	356.4	339.6	347.3	399.0	658.5	3962.5	4499.6	6921.8	8002.5	5182.6
70°	284.0	290.5	282.8	272.4	285.3	364.1	1409.9	1748.2	4030.9	4725.6	3022.5
72.5°	215.6	215.6	228.5	220.8	211.7	228.5	491.9	552.6	1617.8	1970.3	1091.0
75°	166.6	171.7	180.8	173.0	160.1	135.6	236.3	250.5	488.0	458.4	244.0
77.5°	85.2	86.5	114.9	126.5	118.8	82.6	103.3	113.6	158.8	142.0	90.4
80°	51.6	54.2	64.6	99.4	78.8	43.9	42.6	45.2	74.9	64.6	37.4
82.5°	21.9	23.2	36.2	36.2	32.3	16.8	16.8	16.8	36.2	33.6	15.5
85°	0.0	0.0	6.5	5.2	5.2	6.5	6.5	6.5	9.0	12.9	7.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	3.9
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°	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8	3901.8
2.5°	3901.8	3819.2	3708.1	3607.4	3471.9	3395.7	3289.8	3203.3	3129.7	3106.5	3096.1
5°	3903.1	3761.1	3523.5	3285.9	2994.1	2764.3	2528.0	2340.8	2187.2	2138.1	2125.2
7.5°	3928.9	3719.8	3335.0	2903.8	2415.7	2012.9	1652.7	1329.9	1180.1	1129.7	1119.4
10°	3963.8	3684.9	3116.8	2445.4	1744.3	1226.6	868.9	662.4	564.2	510.0	517.7
12.5°	4009.0	3656.5	2875.4	1949.6	1154.3	674.0	477.7	400.3	379.6	369.3	364.1
15°	4069.7	3622.9	2575.8	1457.7	707.5	433.8	368.0	347.3	339.6	334.4	333.1
17.5°	4131.6	3584.2	2271.1	1025.2	470.0	360.2	330.5	320.2	315.0	311.2	309.9
20°	4197.5	3518.3	1913.5	706.3	370.6	324.1	304.7	293.1	286.6	280.2	278.9
22.5°	4225.9	3412.5	1571.3	494.5	329.2	298.3	273.7	259.5	251.8	246.6	246.6
25°	4198.8	3240.7	1217.5	375.7	299.5	269.8	245.3	229.8	223.4	218.2	218.2
27.5°	4126.5	3020.0	888.3	311.2	267.3	240.2	216.9	202.7	197.5	195.0	195.0
30°	4046.4	2741.1	626.2	267.3	231.1	209.2	189.8	180.8	179.5	176.9	176.9
32.5°	3978.0	2480.3	431.2	235.0	204.0	182.0	169.1	165.3	166.6	164.0	165.3
35°	3940.5	2224.6	320.2	209.2	182.0	161.4	154.9	154.9	154.9	153.6	153.6
37.5°	3956.0	1972.9	260.8	191.1	162.7	147.2	140.7	143.3	145.9	145.9	145.9
40°	4033.5	1749.5	231.1	174.3	145.9	134.3	129.1	133.0	136.9	139.4	139.4
42.5°	4131.6	1568.7	209.2	160.1	134.3	121.4	118.8	122.7	126.5	129.1	129.1
45°	4193.6	1386.7	187.2	142.0	122.7	107.2	107.2	112.3	111.0	112.3	112.3
47.5°	4222.0	1242.1	165.3	122.7	104.6	93.0	94.3	96.8	94.3	96.8	96.8
50°	4152.3	1096.2	145.9	102.0	86.5	81.3	83.9	82.6	82.6	87.8	87.8
52.5°	4024.5	987.7	129.1	86.5	73.6	72.3	74.9	69.7	71.0	71.0	69.7
55°	3930.2	925.7	114.9	74.9	63.3	64.6	63.3	54.2	49.1	43.9	42.6
57.5°	3883.7	901.2	104.6	67.1	56.8	56.8	51.6	37.4	28.4	21.9	19.4
60°	3873.4	871.5	94.3	58.1	50.4	47.8	37.4	21.9	14.2	10.3	9.0
62.5°	3775.3	799.2	85.2	46.5	43.9	38.7	23.2	12.9	7.7	5.2	3.9
65°	3453.8	657.2	76.2	36.2	33.6	28.4	14.2	7.7	3.9	1.3	0.0
67.5°	2747.5	466.1	67.1	27.1	23.2	18.1	9.0	5.2	1.3	0.0	0.0
70°	1584.2	251.8	55.5	19.4	15.5	11.6	6.5	2.6	0.0	0.0	0.0
72.5°	529.4	117.5	42.6	12.9	11.6	9.0	3.9	1.3	0.0	0.0	0.0
75°	116.2	69.7	28.4	9.0	7.7	6.5	2.6	0.0	0.0	0.0	0.0
77.5°	43.9	49.1	14.2	6.5	5.2	3.9	1.3	0.0	0.0	0.0	0.0
80°	16.8	32.3	6.5	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	12.9	3.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	6.5	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	0.0	0.0	0.0	0.0	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)