

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: P637364

Luminaire Tested: GWS-SA4C-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637364
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-SA4C-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16423.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

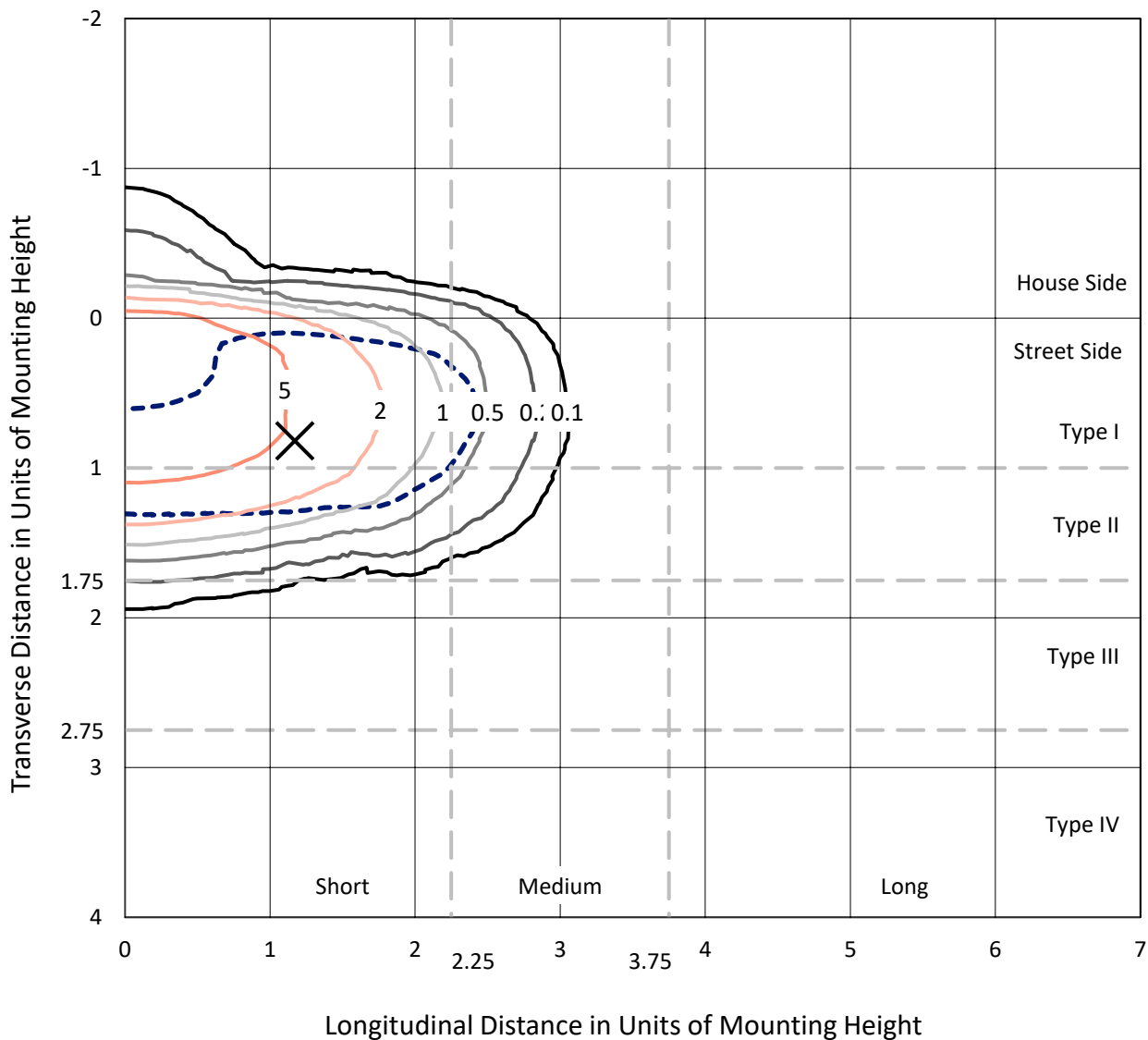
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

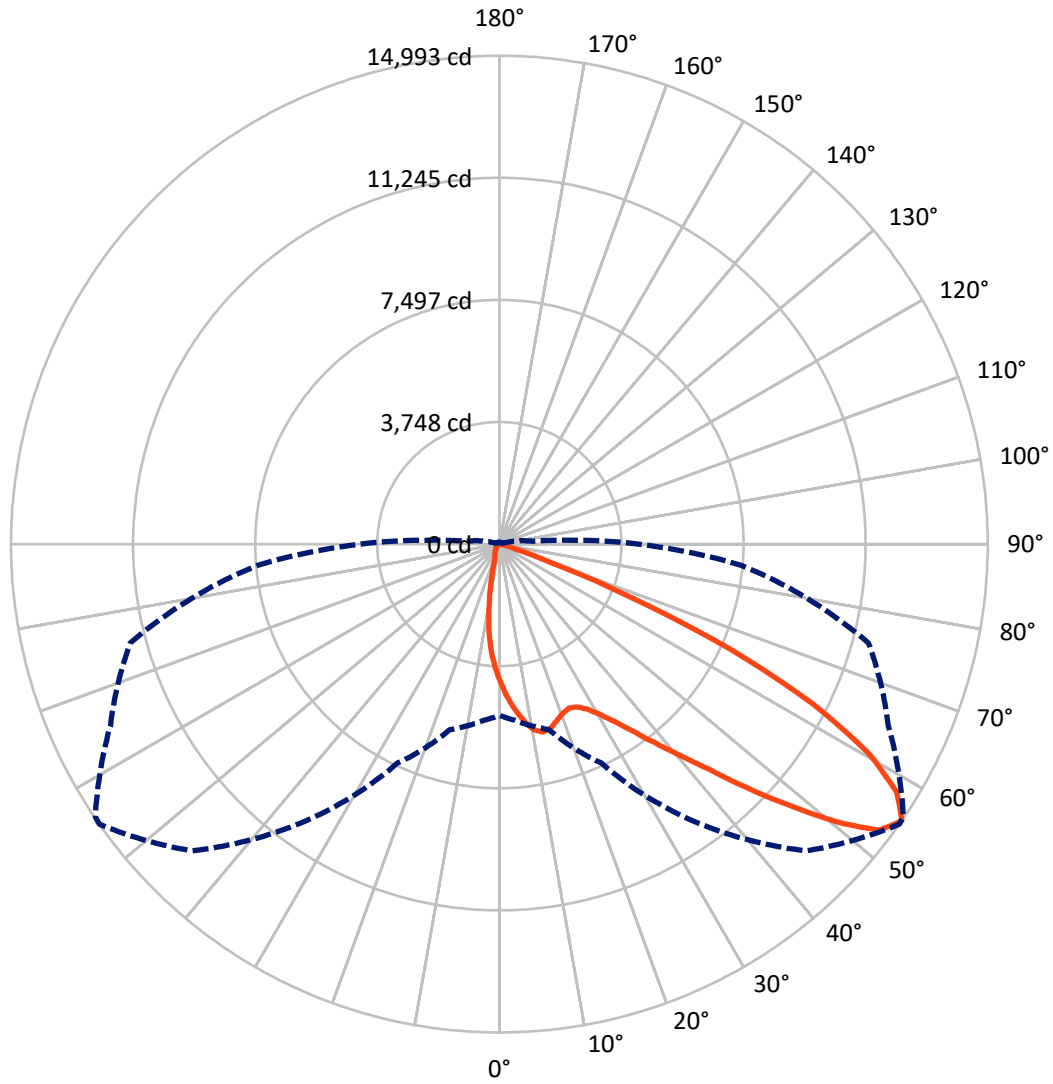
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	1013.4	0.0	1013.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15409.9	0.0	15409.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	16423.3	0.0	16423.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.0	2.3
10°-20°	904.0	5.5
20°-30°	1505.5	9.2
30°-40°	2565.5	15.6
40°-50°	4187.7	25.5
50°-60°	4384.3	26.7
60°-70°	2211.4	13.5
70°-80°	279.3	1.7
80°-90°	10.6	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°	16423.3	100.0
0°-180°	16423.3	100.0

Coefficient of Utilization



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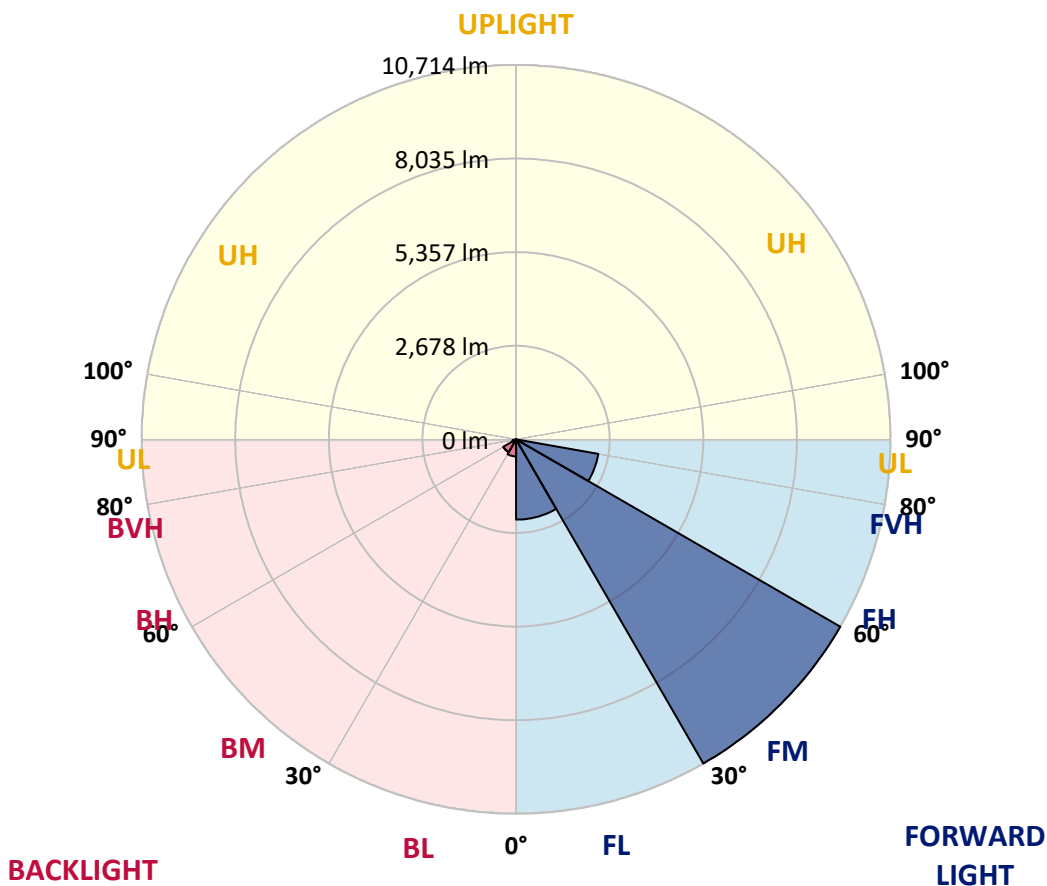
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2297.4	14.0			
FM (30°-60°)	10713.8	65.2			
FH (60°-80°)	2389.0	14.5			G2/5000
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	487.1	3.0	B1/500		
BM (30°-60°)	423.7	2.6	B1/1000		
BH (60°-80°)	101.6	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	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°	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8
2.5°	4946.2	4922.3	4958.8	4916.7	4845.1	4784.8	4706.1	4678.1	4551.7	4432.4	4317.2
5°	5547.1	5554.1	5542.9	5483.9	5382.8	5270.5	5111.9	5076.8	4856.4	4628.9	4383.2
7.5°	5695.9	5691.7	5715.6	5738.1	5721.2	5665.0	5492.4	5457.3	5183.5	4842.3	4484.3
10°	5236.8	5239.6	5288.8	5440.4	5628.5	5823.7	5797.0	5777.4	5509.2	5083.8	4596.6
12.5°	4588.2	4613.5	4665.4	4881.6	5200.3	5644.0	5919.2	5938.8	5808.3	5349.2	4728.6
15°	4307.4	4313.0	4355.1	4485.7	4723.0	5270.5	5867.2	5922.0	6058.2	5615.9	4871.8
17.5°	4300.4	4307.4	4325.7	4383.2	4537.7	4977.1	5700.1	5795.6	6246.3	5902.3	5043.1
20°	4564.3	4560.1	4547.5	4516.6	4584.0	4880.2	5545.7	5651.0	6348.8	6181.7	5215.8
22.5°	5043.1	5037.5	4981.3	4853.5	4798.8	4968.7	5469.9	5565.4	6410.6	6430.2	5357.6
25°	5594.8	5634.2	5528.9	5335.1	5200.3	5194.7	5537.3	5604.7	6463.9	6650.6	5454.5
27.5°	6200.0	6212.6	6122.7	5905.1	5710.0	5556.9	5732.4	5783.0	6522.9	6847.2	5509.2
30°	6864.0	6859.8	6757.3	6504.6	6267.4	6046.9	6061.0	6080.6	6660.5	7071.8	5569.6
32.5°	7693.8	7712.0	7529.5	7185.6	6900.5	6595.9	6490.6	6493.4	6909.0	7361.1	5660.8
35°	8821.2	8776.3	8534.8	8044.8	7559.0	7230.5	7050.8	7035.3	7292.3	7750.0	5819.5
37.5°	9895.2	9899.4	9646.7	9107.6	8494.1	7976.0	7721.9	7679.8	7831.4	8289.1	6083.4
40°	10640.7	10654.8	10549.5	10267.3	9617.2	8884.4	8510.9	8467.4	8530.6	8971.4	6428.8
42.5°	11035.3	11074.6	11104.1	11170.0	10677.2	10018.8	9444.6	9440.3	9374.4	9749.2	6828.9
45°	11050.7	11109.7	11289.4	11740.1	11796.2	11313.2	10688.5	10594.4	10340.3	10581.8	7187.0
47.5°	10440.0	10576.2	10958.0	11851.0	12440.6	12600.7	11981.5	11924.0	11210.8	11240.2	7455.1
50°	9016.3	9158.1	9861.5	11282.4	12603.5	13622.8	13401.0	13281.6	11938.0	11675.5	7584.3
52.5°	7556.2	7685.4	8162.7	9928.9	11928.2	13944.3	14597.1	14455.3	12590.9	11827.1	7530.9
55°	5257.9	5430.6	5896.7	7421.4	10372.6	13318.1	14993.1	14963.6	13173.5	11731.6	7448.1
57.5°	2577.7	2749.0	3213.7	4575.6	7684.0	11627.7	14388.0	14543.8	13521.7	11629.1	7380.7
60°	1076.9	1147.0	1307.1	2007.7	4299.0	8787.5	13021.9	13238.1	13308.3	11490.1	7373.7
62.5°	624.8	636.0	652.8	832.6	1672.1	5037.5	10802.2	11109.7	12186.5	11306.2	7262.8
65°	471.7	475.9	468.9	511.0	690.8	1910.8	7804.7	8223.1	10171.8	10587.4	6824.7
67.5°	387.5	387.5	369.2	377.7	433.8	716.0	4308.8	4892.9	7526.7	8701.9	5635.6
70°	308.9	315.9	307.5	296.2	310.3	395.9	1533.1	1901.0	4383.2	5138.6	3286.7
72.5°	234.5	234.5	248.5	240.1	230.3	248.5	534.9	600.9	1759.2	2142.5	1186.4
75°	181.1	186.7	196.6	188.1	174.1	147.4	256.9	272.4	530.7	498.4	265.4
77.5°	92.7	94.1	125.0	137.6	129.2	89.9	112.3	123.5	172.7	154.4	98.3
80°	56.2	59.0	70.2	108.1	85.6	47.7	46.3	49.1	81.4	70.2	40.7
82.5°	23.9	25.3	39.3	39.3	35.1	18.3	18.3	18.3	39.3	36.5	16.8
85°	0.0	0.0	7.0	5.6	5.6	7.0	7.0	7.0	9.8	14.0	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	4.2
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°	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8	4242.8
2.5°	4242.8	4153.0	4032.2	3922.7	3775.3	3692.5	3577.3	3483.3	3403.2	3378.0	3366.7
5°	4244.2	4089.8	3831.5	3573.1	3255.8	3005.9	2749.0	2545.4	2378.3	2325.0	2310.9
7.5°	4272.3	4044.9	3626.5	3157.5	2626.8	2188.8	1797.1	1446.1	1283.2	1228.5	1217.2
10°	4310.2	4007.0	3389.2	2659.1	1896.8	1333.8	944.9	720.2	613.5	554.6	563.0
12.5°	4359.3	3976.1	3126.7	2120.0	1255.2	732.9	519.5	435.2	412.8	401.5	395.9
15°	4425.3	3939.6	2800.9	1585.1	769.4	471.7	400.1	377.7	369.2	363.6	362.2
17.5°	4492.7	3897.4	2469.6	1114.8	511.0	391.7	359.4	348.2	342.6	338.4	337.0
20°	4564.3	3825.8	2080.7	768.0	402.9	352.4	331.3	318.7	311.7	304.7	303.3
22.5°	4595.2	3710.7	1708.6	537.7	358.0	324.3	297.6	282.2	273.8	268.2	268.2
25°	4565.7	3524.0	1324.0	408.6	325.7	293.4	266.8	249.9	242.9	237.3	237.3
27.5°	4487.1	3283.9	965.9	338.4	290.6	261.1	235.9	220.4	214.8	212.0	212.0
30°	4400.1	2980.6	680.9	290.6	251.3	227.4	206.4	196.6	195.2	192.3	192.3
32.5°	4325.7	2697.0	468.9	255.5	221.8	198.0	183.9	179.7	181.1	178.3	179.7
35°	4284.9	2419.1	348.2	227.4	198.0	175.5	168.5	168.5	168.5	167.1	167.1
37.5°	4301.8	2145.3	283.6	207.8	176.9	160.1	153.0	155.8	158.6	158.6	158.6
40°	4386.0	1902.4	251.3	189.5	158.6	146.0	140.4	144.6	148.8	151.6	151.6
42.5°	4492.7	1705.8	227.4	174.1	146.0	132.0	129.2	133.4	137.6	140.4	140.4
45°	4560.1	1507.9	203.6	154.4	133.4	116.5	116.5	122.1	120.7	122.1	122.1
47.5°	4591.0	1350.6	179.7	133.4	113.7	101.1	102.5	105.3	102.5	105.3	105.3
50°	4515.2	1192.0	158.6	110.9	94.1	88.5	91.3	89.9	89.9	95.5	95.5
52.5°	4376.2	1074.0	140.4	94.1	80.0	78.6	81.4	75.8	77.2	77.2	75.8
55°	4273.7	1006.7	125.0	81.4	68.8	70.2	68.8	59.0	53.4	47.7	46.3
57.5°	4223.2	980.0	113.7	73.0	61.8	61.8	56.2	40.7	30.9	23.9	21.1
60°	4211.9	947.7	102.5	63.2	54.8	51.9	40.7	23.9	15.4	11.2	9.8
62.5°	4105.2	869.1	92.7	50.5	47.7	42.1	25.3	14.0	8.4	5.6	4.2
65°	3755.6	714.6	82.8	39.3	36.5	30.9	15.4	8.4	4.2	1.4	0.0
67.5°	2987.7	506.8	73.0	29.5	25.3	19.7	9.8	5.6	1.4	0.0	0.0
70°	1722.7	273.8	60.4	21.1	16.8	12.6	7.0	2.8	0.0	0.0	0.0
72.5°	575.6	127.8	46.3	14.0	12.6	9.8	4.2	1.4	0.0	0.0	0.0
75°	126.4	75.8	30.9	9.8	8.4	7.0	2.8	0.0	0.0	0.0	0.0
77.5°	47.7	53.4	15.4	7.0	5.6	4.2	1.4	0.0	0.0	0.0	0.0
80°	18.3	35.1	7.0	4.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	9.8	14.0	4.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	7.0	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	1.4	1.4	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)