

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: P640334

Luminaire Tested: GWS-SA5D-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640334
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-SA5D-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25416.3 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

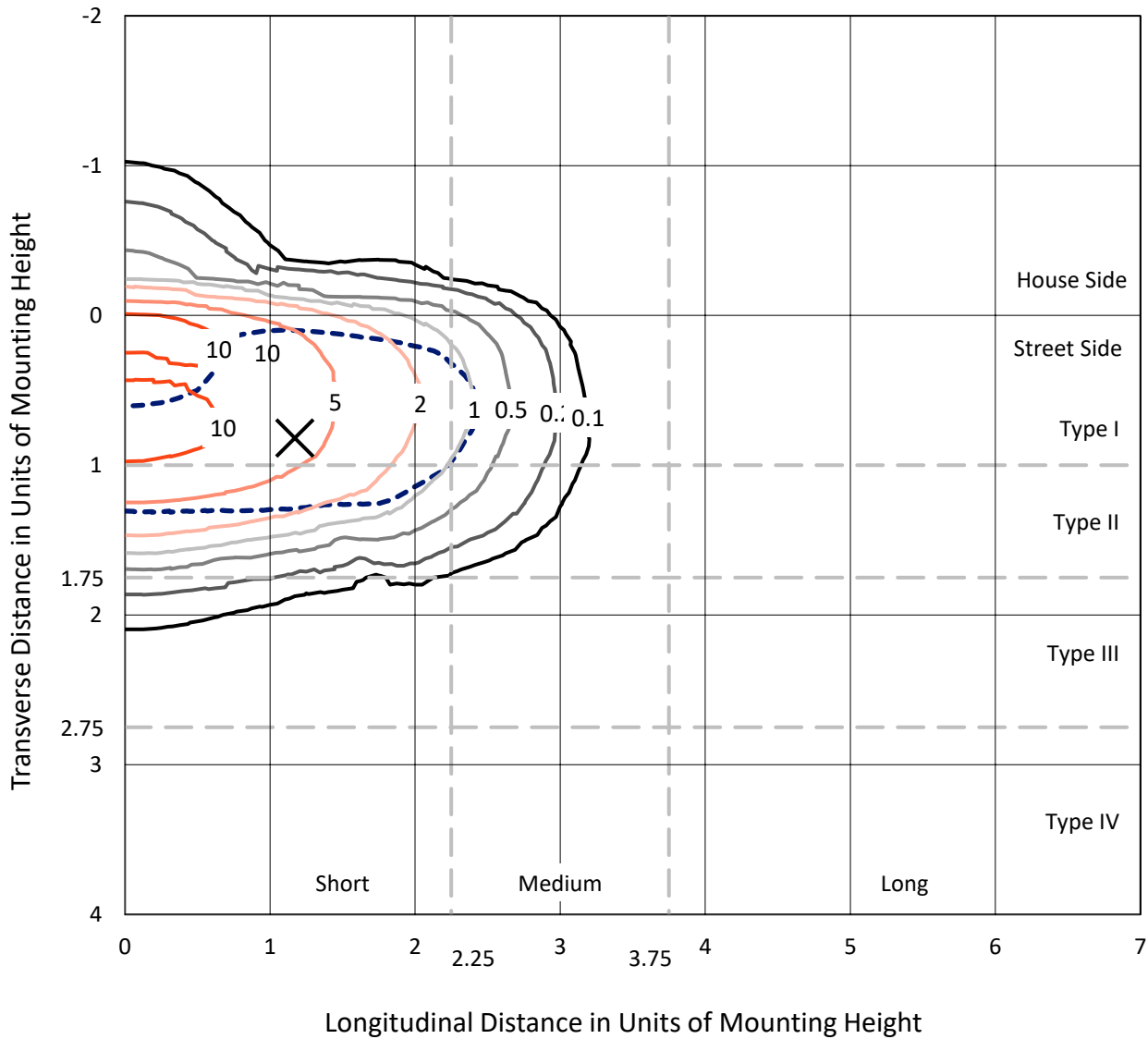
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

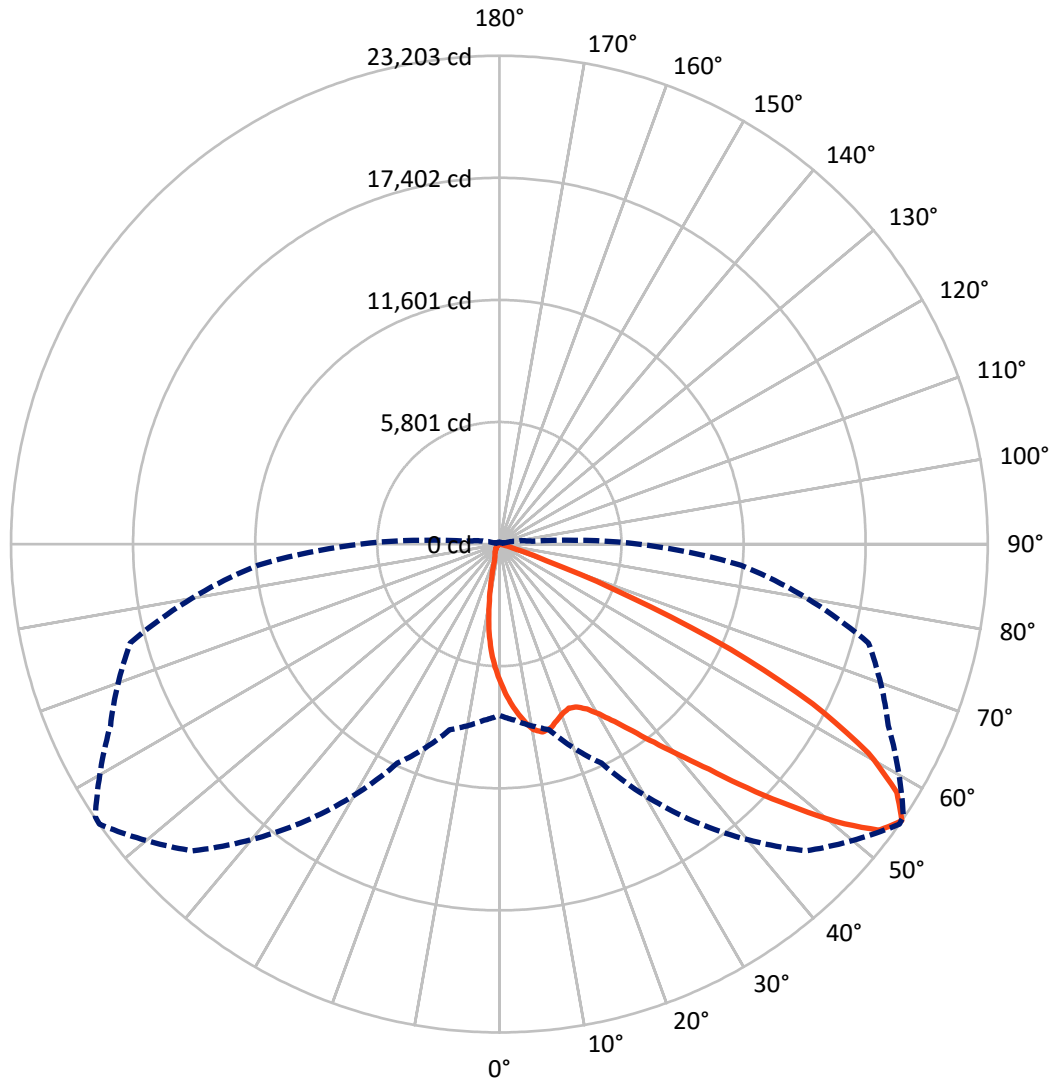
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	1568.3	0.0	1568.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23848.0	0.0	23848.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	25416.3	0.0	25416.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.3	2.3
10°-20°	1399.0	5.5
20°-30°	2329.9	9.2
30°-40°	3970.2	15.6
40°-50°	6480.8	25.5
50°-60°	6785.1	26.7
60°-70°	3422.3	13.5
70°-80°	432.3	1.7
80°-90°	16.4	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°	25416.3	100.0
0°-180°	25416.3	100.0

Coefficient of Utilization



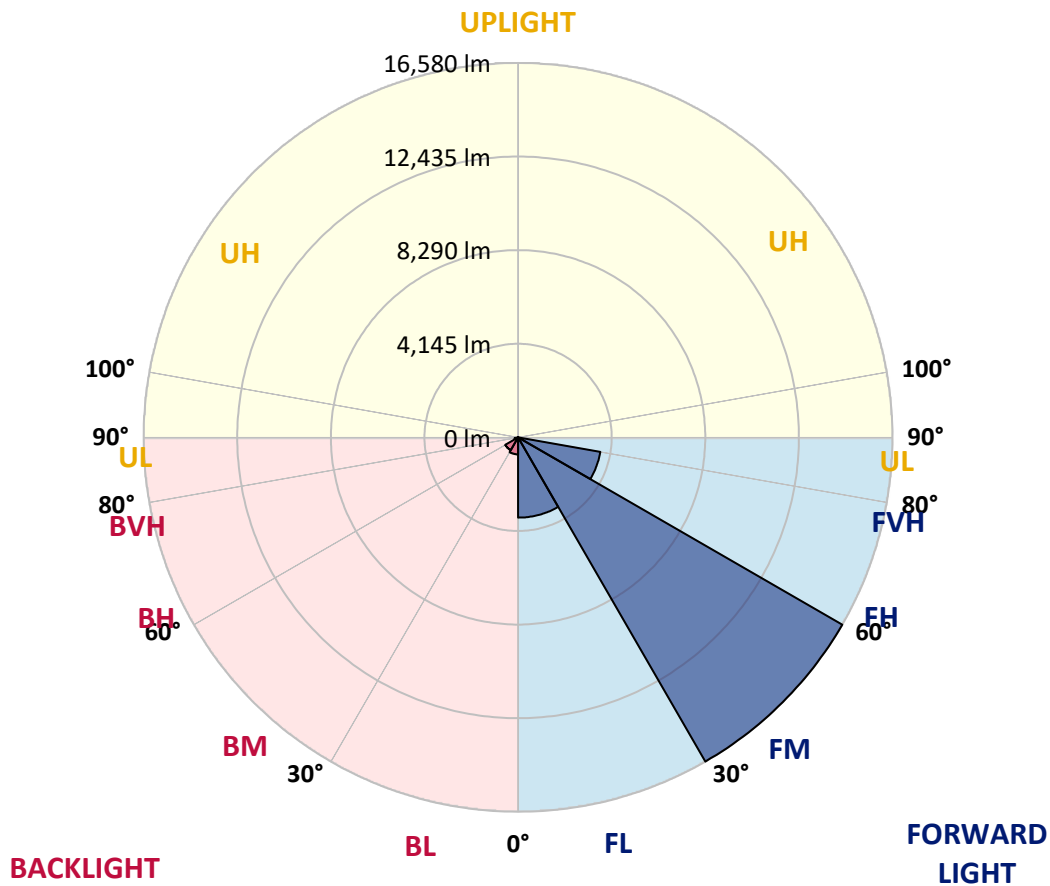
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3555.4	14.0			
FM (30°-60°)	16580.5	65.2			
FH (60°-80°)	3697.2	14.5			G2/5000
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	753.8	3.0	B2/1000		
BM (30°-60°)	655.7	2.6	B1/1000		
BH (60°-80°)	157.3	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1
2.5°	7654.6	7617.7	7674.2	7609.0	7498.2	7404.8	7283.1	7239.6	7044.1	6859.4	6681.2
5°	8584.6	8595.4	8578.1	8486.8	8330.4	8156.5	7911.0	7856.7	7515.6	7163.6	6783.4
7.5°	8814.9	8808.4	8845.3	8880.1	8854.0	8767.1	8499.8	8445.5	8021.8	7493.9	6939.8
10°	8104.4	8108.7	8184.8	8419.4	8710.6	9012.6	8971.3	8940.9	8525.9	7867.6	7113.6
12.5°	7100.6	7139.7	7220.1	7554.7	8047.9	8734.5	9160.4	9190.8	8988.7	8278.2	7317.9
15°	6666.0	6674.7	6739.9	6942.0	7309.2	8156.5	9080.0	9164.7	9375.5	8691.0	7539.5
17.5°	6655.2	6666.0	6694.3	6783.4	7022.4	7702.4	8821.4	8969.2	9666.6	9134.3	7804.6
20°	7063.6	7057.1	7037.6	6989.8	7094.1	7552.5	8582.4	8745.4	9825.2	9566.7	8071.8
22.5°	7804.6	7795.9	7709.0	7511.2	7426.5	7689.4	8465.1	8612.8	9920.8	9951.2	8291.3
25°	8658.5	8719.3	8556.3	8256.5	8047.9	8039.2	8569.4	8673.7	10003.4	10292.4	8441.2
27.5°	9594.9	9614.5	9475.4	9138.6	8836.6	8599.8	8871.4	8949.6	10094.6	10596.6	8525.9
30°	10622.6	10616.1	10457.5	10066.4	9699.2	9358.1	9379.8	9410.2	10307.6	10944.2	8619.3
32.5°	11906.7	11935.0	11652.5	11120.2	10679.1	10207.6	10044.7	10049.0	10692.2	11391.8	8760.6
35°	13651.5	13581.9	13208.2	12449.9	11698.1	11189.7	10911.6	10887.7	11285.3	11993.6	9006.1
37.5°	15313.6	15320.1	14929.0	14094.7	13145.2	12343.5	11950.2	11885.0	12119.7	12828.0	9414.6
40°	16467.4	16489.1	16326.1	15889.4	14883.4	13749.2	13171.3	13103.9	13201.7	13883.9	9949.1
42.5°	17077.9	17138.7	17184.4	17286.5	16523.8	15504.8	14616.2	14609.6	14507.5	15087.7	10568.3
45°	17101.8	17193.1	17471.2	18168.6	18255.5	17508.1	16541.2	16395.7	16002.4	16376.1	11122.4
47.5°	16156.6	16367.4	16958.4	18340.3	19252.8	19500.5	18542.3	18453.3	17349.5	17395.1	11537.4
50°	13953.5	14172.9	15261.5	17460.3	19504.9	21082.3	20739.0	20554.3	18475.0	18068.7	11737.3
52.5°	11693.8	11893.7	12632.4	15365.8	18459.8	21579.9	22590.2	22370.7	19485.3	18303.3	11654.7
55°	8137.0	8404.2	9125.6	11485.2	16052.4	20610.8	23202.9	23157.3	20387.0	18155.6	11526.5
57.5°	3989.2	4254.3	4973.4	7081.0	11891.5	17994.8	22266.5	22507.6	20925.9	17997.0	11422.2
60°	1666.5	1775.1	2022.8	3107.0	6653.0	13599.3	20152.4	20487.0	20595.6	17781.9	11411.3
62.5°	966.9	984.3	1010.3	1288.4	2587.8	7795.9	16717.2	17193.1	18859.6	17497.2	11239.7
65°	730.0	736.6	725.7	790.9	1069.0	2957.1	12078.4	12725.9	15741.7	16384.8	10561.8
67.5°	599.7	599.7	571.4	584.5	671.4	1108.1	6668.2	7572.1	11648.2	13466.8	8721.5
70°	478.0	488.9	475.8	458.5	480.2	612.7	2372.7	2941.9	6783.4	7952.3	5086.4
72.5°	362.9	362.9	384.6	371.5	356.3	384.6	827.8	929.9	2722.5	3315.6	1836.0
75°	280.3	289.0	304.2	291.1	269.4	228.1	397.6	421.5	821.3	771.3	410.7
77.5°	143.4	145.6	193.4	212.9	199.9	139.1	173.8	191.2	267.2	239.0	152.1
80°	86.9	91.3	108.6	167.3	132.5	73.9	71.7	76.0	126.0	108.6	63.0
82.5°	36.9	39.1	60.8	60.8	54.3	28.2	28.2	28.2	60.8	56.5	26.1
85°	0.0	0.0	10.9	8.7	8.7	10.9	10.9	10.9	15.2	21.7	13.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.5	6.5
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°	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1	6566.1
2.5°	6566.1	6427.0	6240.2	6070.7	5842.6	5714.4	5536.2	5390.6	5266.8	5227.7	5210.3
5°	6568.3	6329.3	5929.5	5529.7	5038.6	4651.9	4254.3	3939.2	3680.7	3598.1	3576.4
7.5°	6611.7	6259.7	5612.2	4886.5	4065.2	3387.3	2781.1	2237.9	1985.9	1901.2	1883.8
10°	6670.4	6201.1	5245.0	4115.2	2935.4	2064.1	1462.3	1114.6	949.5	858.2	871.3
12.5°	6746.4	6153.3	4838.7	3280.9	1942.4	1134.2	803.9	673.6	638.8	621.4	612.7
15°	6848.5	6096.8	4334.7	2453.0	1190.7	730.0	619.2	584.5	571.4	562.7	560.6
17.5°	6952.8	6031.6	3821.9	1725.2	790.9	606.2	556.2	538.8	530.2	523.6	521.5
20°	7063.6	5920.8	3220.0	1188.5	623.6	545.4	512.8	493.2	482.4	471.5	469.3
22.5°	7111.4	5742.6	2644.2	832.2	554.1	501.9	460.6	436.7	423.7	415.0	415.0
25°	7065.8	5453.6	2048.9	632.3	504.1	454.1	412.8	386.8	375.9	367.2	367.2
27.5°	6944.1	5082.1	1494.9	523.6	449.8	404.1	365.0	341.1	332.4	328.1	328.1
30°	6809.4	4612.8	1053.8	449.8	388.9	352.0	319.4	304.2	302.0	297.7	297.7
32.5°	6694.3	4173.9	725.7	395.4	343.3	306.4	284.6	278.1	280.3	275.9	278.1
35°	6631.3	3743.7	538.8	352.0	306.4	271.6	260.7	260.7	260.7	258.6	258.6
37.5°	6657.3	3320.0	438.9	321.6	273.8	247.7	236.8	241.2	245.5	245.5	245.5
40°	6787.7	2944.1	388.9	293.3	245.5	226.0	217.3	223.8	230.3	234.7	234.7
42.5°	6952.8	2639.9	352.0	269.4	226.0	204.2	199.9	206.4	212.9	217.3	217.3
45°	7057.1	2333.5	315.1	239.0	206.4	180.3	180.3	189.0	186.9	189.0	189.0
47.5°	7104.9	2090.2	278.1	206.4	176.0	156.4	158.6	163.0	158.6	163.0	163.0
50°	6987.6	1844.7	245.5	171.6	145.6	136.9	141.2	139.1	139.1	147.7	147.7
52.5°	6772.5	1662.2	217.3	145.6	123.8	121.7	126.0	117.3	119.5	119.5	117.3
55°	6613.9	1557.9	193.4	126.0	106.5	108.6	106.5	91.3	82.6	73.9	71.7
57.5°	6535.7	1516.6	176.0	113.0	95.6	95.6	86.9	63.0	47.8	36.9	32.6
60°	6518.3	1466.6	158.6	97.8	84.7	80.4	63.0	36.9	23.9	17.4	15.2
62.5°	6353.2	1344.9	143.4	78.2	73.9	65.2	39.1	21.7	13.0	8.7	6.5
65°	5812.1	1105.9	128.2	60.8	56.5	47.8	23.9	13.0	6.5	2.2	0.0
67.5°	4623.6	784.4	113.0	45.6	39.1	30.4	15.2	8.7	2.2	0.0	0.0
70°	2666.0	423.7	93.4	32.6	26.1	19.6	10.9	4.3	0.0	0.0	0.0
72.5°	890.8	197.7	71.7	21.7	19.6	15.2	6.5	2.2	0.0	0.0	0.0
75°	195.5	117.3	47.8	15.2	13.0	10.9	4.3	0.0	0.0	0.0	0.0
77.5°	73.9	82.6	23.9	10.9	8.7	6.5	2.2	0.0	0.0	0.0	0.0
80°	28.2	54.3	10.9	6.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	21.7	6.5	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	10.9	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	2.2	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)