

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: P633269

Luminaire Tested: GWS-SA2E-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11606.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

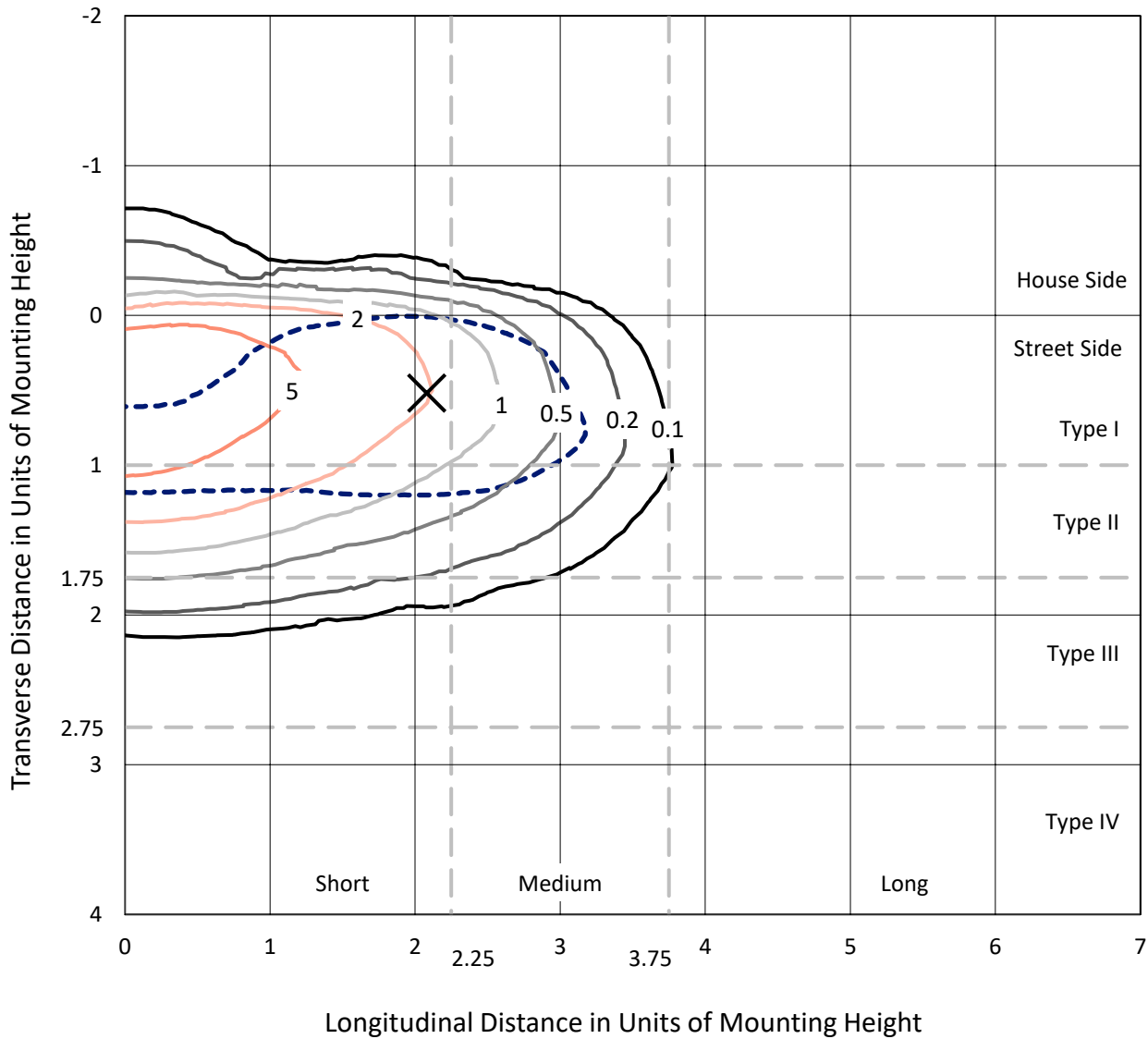
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633269
 CATALOG NUMBER: GWS-SA2E-735-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

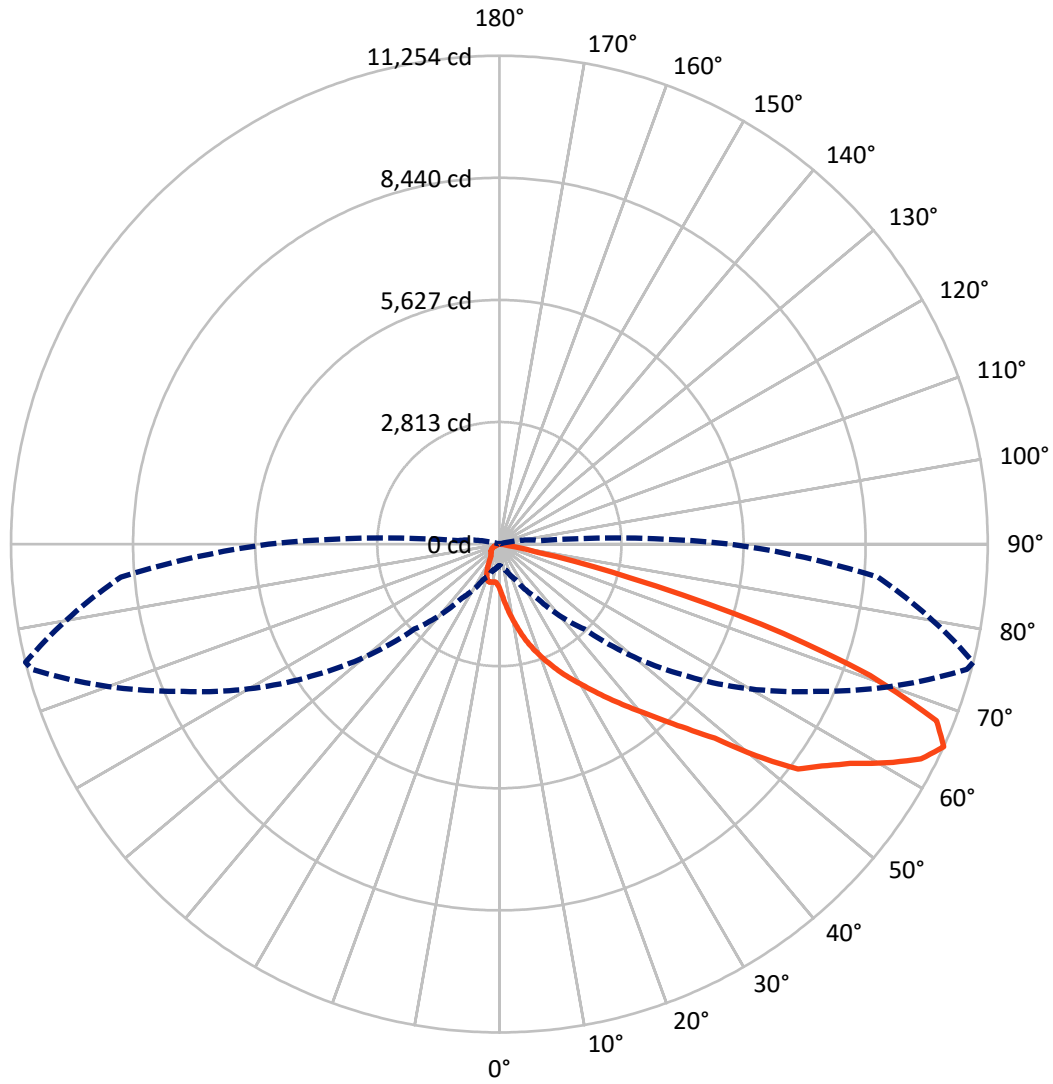
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

REPORT NUMBER: P633269
CATALOG NUMBER: GWS-SA2E-735-U-T2R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P633269
 CATALOG NUMBER: GWS-SA2E-735-U-T2R-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.8	0.0	641.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	10964.4	0.0	10964.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	11606.1	0.0	11606.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.1
10°-20°	474.3	4.1
20°-30°	967.7	8.3
30°-40°	1721.1	14.8
40°-50°	2544.2	21.9
50°-60°	2913.0	25.1
60°-70°	2222.5	19.1
70°-80°	622.6	5.4
80°-90°	15.7	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°	11606.1	100.0
0°-180°	11606.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633269

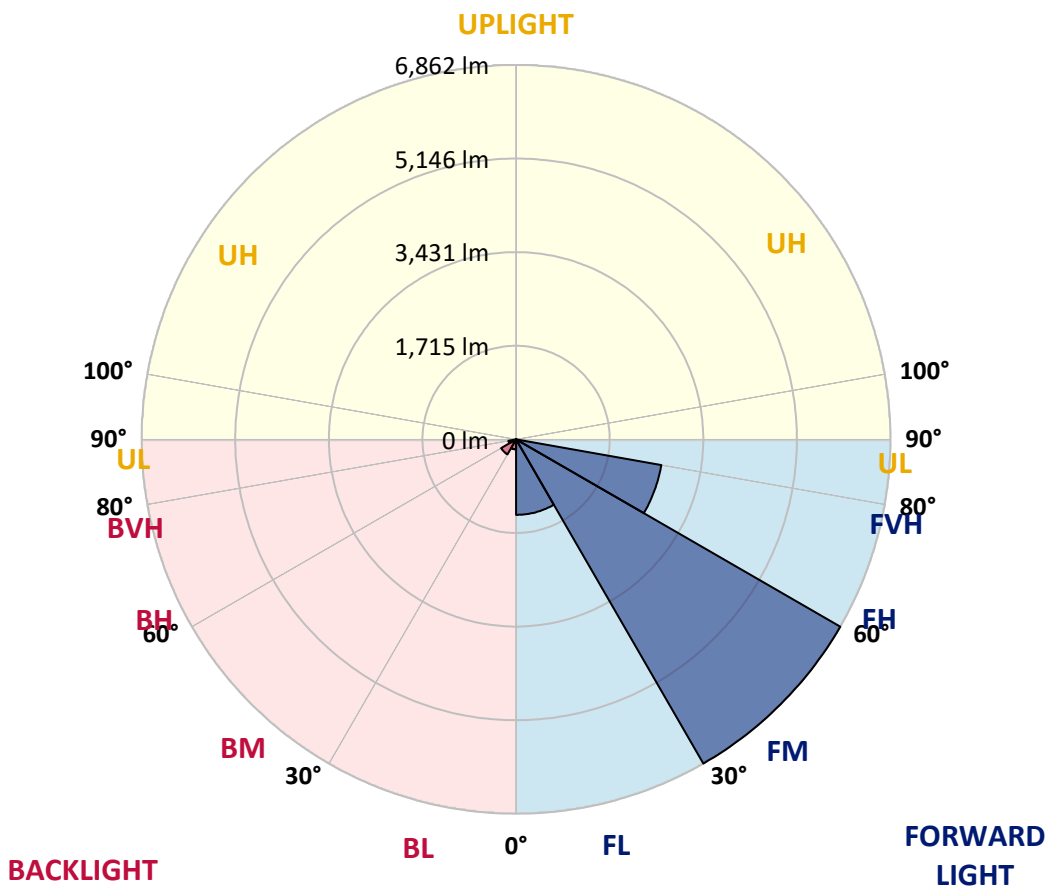
CATALOG NUMBER: GWS-SA2E-735-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.9	11.9			
FM (30°-60°)	6861.7	59.1			
FH (60°-80°)	2703.9	23.3			G2/5000
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	183.1	1.6	B1/500		
BM (30°-60°)	316.6	2.7	B1/1000		
BH (60°-80°)	141.1	1.2	B1/500		G1/500
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





REPORT NUMBER: P633269

CATALOG NUMBER: GWS-SA2E-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1583.6	1607.4	1588.8	1557.9	1498.0	1440.2	1366.0	1263.8	1182.3	1172.0	1095.7
5°	2138.7	2136.6	2096.4	2056.2	1993.2	1894.2	1744.6	1554.8	1372.1	1356.7	1185.4
7.5°	2468.8	2471.9	2449.2	2418.3	2356.4	2254.2	2098.5	1869.4	1602.2	1571.3	1308.2
10°	2746.4	2745.3	2728.8	2714.4	2658.7	2590.6	2423.4	2171.7	1849.8	1801.3	1445.4
12.5°	2954.8	2962.0	2970.2	2984.7	2961.0	2893.9	2736.0	2461.6	2100.5	2046.9	1602.2
15°	3119.8	3121.9	3152.8	3208.6	3228.2	3193.1	3049.7	2742.2	2348.1	2301.7	1782.8
17.5°	3169.4	3173.5	3226.1	3328.2	3431.4	3451.0	3342.7	3024.9	2591.6	2542.1	1958.1
20°	3273.6	3282.8	3322.0	3411.8	3541.8	3647.0	3604.7	3310.7	2835.1	2770.1	2137.7
22.5°	3601.6	3606.8	3593.4	3604.7	3671.8	3793.5	3819.3	3587.2	3084.8	3015.6	2331.6
25°	4166.0	4168.0	4074.1	3985.4	3934.9	3957.6	4014.3	3842.0	3332.4	3264.3	2512.2
27.5°	4752.0	4759.2	4646.7	4496.1	4315.6	4212.4	4195.9	4075.2	3582.0	3506.7	2690.6
30°	5303.9	5303.9	5185.3	5001.6	4760.2	4559.0	4440.4	4310.4	3849.2	3766.7	2873.3
32.5°	5800.2	5796.0	5644.4	5445.3	5206.9	4986.2	4736.5	4555.9	4146.4	4054.5	3083.7
35°	6209.7	6199.4	6027.1	5836.3	5581.4	5417.4	5138.8	4820.1	4468.2	4376.4	3300.4
37.5°	6519.2	6507.9	6350.1	6147.8	5911.6	5805.3	5572.2	5136.8	4807.7	4724.1	3540.8
40°	6687.4	6664.7	6555.4	6404.7	6206.6	6113.8	6016.8	5529.9	5206.9	5102.7	3824.5
42.5°	6736.9	6710.1	6637.9	6567.7	6448.1	6374.8	6479.0	5973.5	5645.4	5555.7	4148.4
45°	6590.4	6575.0	6568.8	6619.3	6641.0	6661.6	6918.5	6464.6	6129.3	6061.2	4555.9
47.5°	6237.6	6233.5	6288.2	6498.6	6727.7	6945.3	7396.2	7070.2	6756.5	6683.3	5125.4
50°	5585.6	5627.9	5780.6	6149.9	6608.0	7106.3	7842.9	7910.0	7771.7	7664.4	5868.3
52.5°	4566.3	4647.8	4990.3	5551.5	6209.7	7060.9	8049.2	8582.6	8724.0	8612.5	6400.6
55°	3583.1	3659.4	3964.8	4676.7	5554.6	6715.3	8058.5	8814.8	9123.2	9020.1	6760.7
57.5°	2669.0	2739.1	3016.7	3697.6	4663.2	6035.4	7837.7	8943.7	9596.8	9530.8	7329.1
60°	1744.6	1813.7	2064.4	2659.7	3617.1	5045.0	7294.0	8916.9	10241.6	10235.4	8027.6
62.5°	967.7	1022.4	1204.0	1668.2	2524.5	3907.0	6439.8	8647.6	10865.8	10905.0	8603.3
65°	495.2	530.3	640.7	917.2	1527.9	2770.1	5316.3	8030.7	11154.6	11253.7	8754.9
67.5°	324.0	335.3	362.1	476.6	818.1	1742.5	4000.9	7041.3	10748.1	10863.7	8246.3
70°	263.1	272.4	287.8	317.8	422.0	925.4	2627.7	5623.7	8980.9	9059.3	6566.7
72.5°	192.9	205.3	235.2	254.8	304.3	507.6	1367.0	3691.4	6167.4	6305.7	4126.8
75°	142.4	149.6	174.4	201.2	248.6	320.9	523.1	1940.6	3184.8	3104.4	1733.2
77.5°	85.6	90.8	111.4	129.0	177.5	200.1	182.6	717.0	968.8	911.0	418.9
80°	42.3	47.5	73.2	97.0	113.5	80.5	76.3	200.1	215.6	215.6	105.2
82.5°	14.4	18.6	39.2	64.0	55.7	31.0	36.1	51.6	57.8	60.9	31.0
85°	0.0	0.0	9.3	18.6	8.3	4.1	9.3	11.3	14.4	15.5	10.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633269

CATALOG NUMBER: GWS-SA2E-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1054.4	1005.9	932.6	866.6	816.1	768.6	732.5	703.6	698.5	681.9	684.0
5°	1101.8	1014.2	879.0	774.8	701.5	652.0	610.8	579.8	566.4	553.0	542.7
7.5°	1175.1	1048.2	858.4	731.5	645.8	569.5	505.5	453.9	429.2	413.7	403.4
10°	1264.9	1095.7	859.4	705.7	578.8	462.2	374.5	317.8	290.9	282.7	281.7
12.5°	1372.1	1155.5	867.7	663.4	481.8	343.6	277.5	251.7	243.5	236.3	236.3
15°	1485.6	1222.6	867.7	586.0	367.3	268.2	240.4	223.9	213.6	209.4	207.4
17.5°	1605.3	1285.5	847.0	479.7	281.7	236.3	213.6	198.1	189.8	183.6	181.6
20°	1733.2	1345.3	795.4	367.3	241.4	211.5	189.8	174.4	166.1	159.9	159.9
22.5°	1863.2	1401.0	711.9	282.7	213.6	187.8	167.1	152.7	144.4	138.2	138.2
25°	1983.9	1438.2	604.6	233.2	192.9	167.1	148.6	134.1	124.8	120.7	118.6
27.5°	2096.4	1461.9	485.9	205.3	173.3	149.6	130.0	116.6	109.4	106.3	104.2
30°	2213.0	1468.1	371.4	186.7	156.8	132.1	113.5	103.2	97.0	92.9	92.9
32.5°	2326.5	1460.9	283.7	171.3	142.4	116.6	101.1	91.8	86.7	83.6	82.5
35°	2442.0	1427.9	230.1	157.8	127.9	102.1	89.8	82.5	79.4	75.3	75.3
37.5°	2567.9	1383.5	200.1	144.4	113.5	91.8	80.5	75.3	71.2	68.1	67.1
40°	2724.7	1331.9	183.6	133.1	100.1	82.5	72.2	67.1	64.0	60.9	59.8
42.5°	2910.4	1281.4	175.4	120.7	89.8	73.2	65.0	58.8	55.7	51.6	50.6
45°	3173.5	1270.0	166.1	107.3	80.5	66.0	56.7	50.6	46.4	43.3	42.3
47.5°	3596.5	1302.0	150.6	92.9	71.2	57.8	48.5	43.3	38.2	35.1	33.0
50°	4016.4	1293.7	135.2	80.5	62.9	49.5	41.3	36.1	31.0	27.9	26.8
52.5°	4245.4	1254.5	120.7	71.2	54.7	42.3	35.1	28.9	25.8	22.7	21.7
55°	4452.8	1239.1	106.3	61.9	46.4	37.1	28.9	23.7	21.7	18.6	17.5
57.5°	4859.3	1275.2	93.9	53.6	40.2	32.0	24.8	19.6	17.5	14.4	13.4
60°	5284.3	1279.3	80.5	46.4	35.1	26.8	19.6	15.5	13.4	10.3	9.3
62.5°	5506.1	1175.1	66.0	39.2	28.9	22.7	16.5	12.4	10.3	6.2	6.2
65°	5320.4	950.2	55.7	32.0	22.7	17.5	12.4	9.3	6.2	3.1	1.0
67.5°	4708.6	675.8	46.4	25.8	16.5	12.4	9.3	6.2	1.0	0.0	0.0
70°	3447.9	385.9	36.1	18.6	12.4	8.3	6.2	3.1	0.0	0.0	0.0
72.5°	2119.1	206.3	26.8	12.4	9.3	6.2	5.2	2.1	0.0	0.0	0.0
75°	803.7	99.0	16.5	8.3	7.2	5.2	3.1	1.0	0.0	0.0	0.0
77.5°	217.7	48.5	9.3	6.2	5.2	3.1	2.1	0.0	0.0	0.0	0.0
80°	56.7	22.7	6.2	4.1	3.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.6	10.3	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	4.1	2.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.0	1.0	1.0	1.0	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)