

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: P639319

Luminaire Tested: GWS-SA5B-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639319
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-SA5B-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14647.9 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

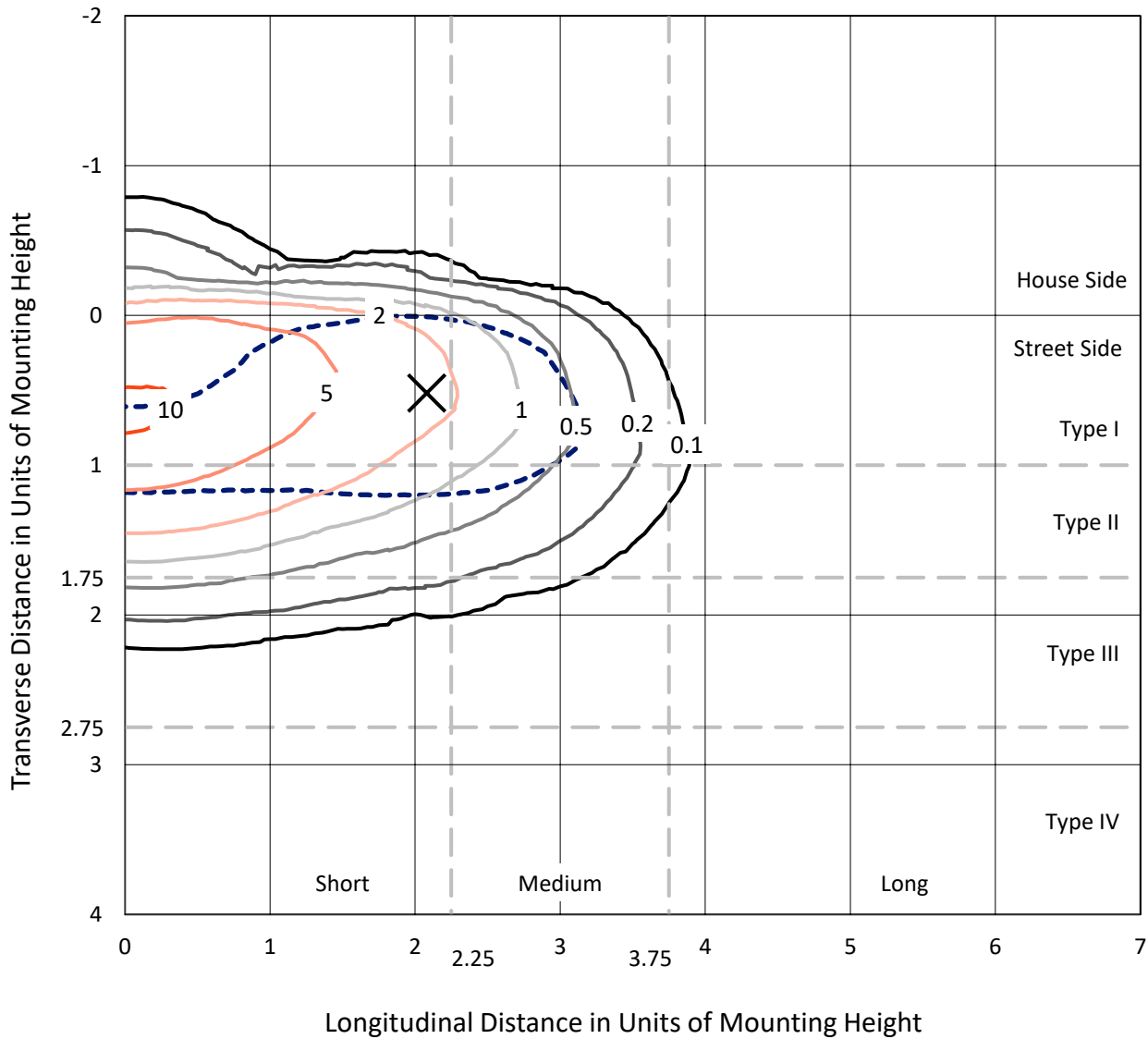
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639319
 CATALOG NUMBER: GWS-SA5B-750-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

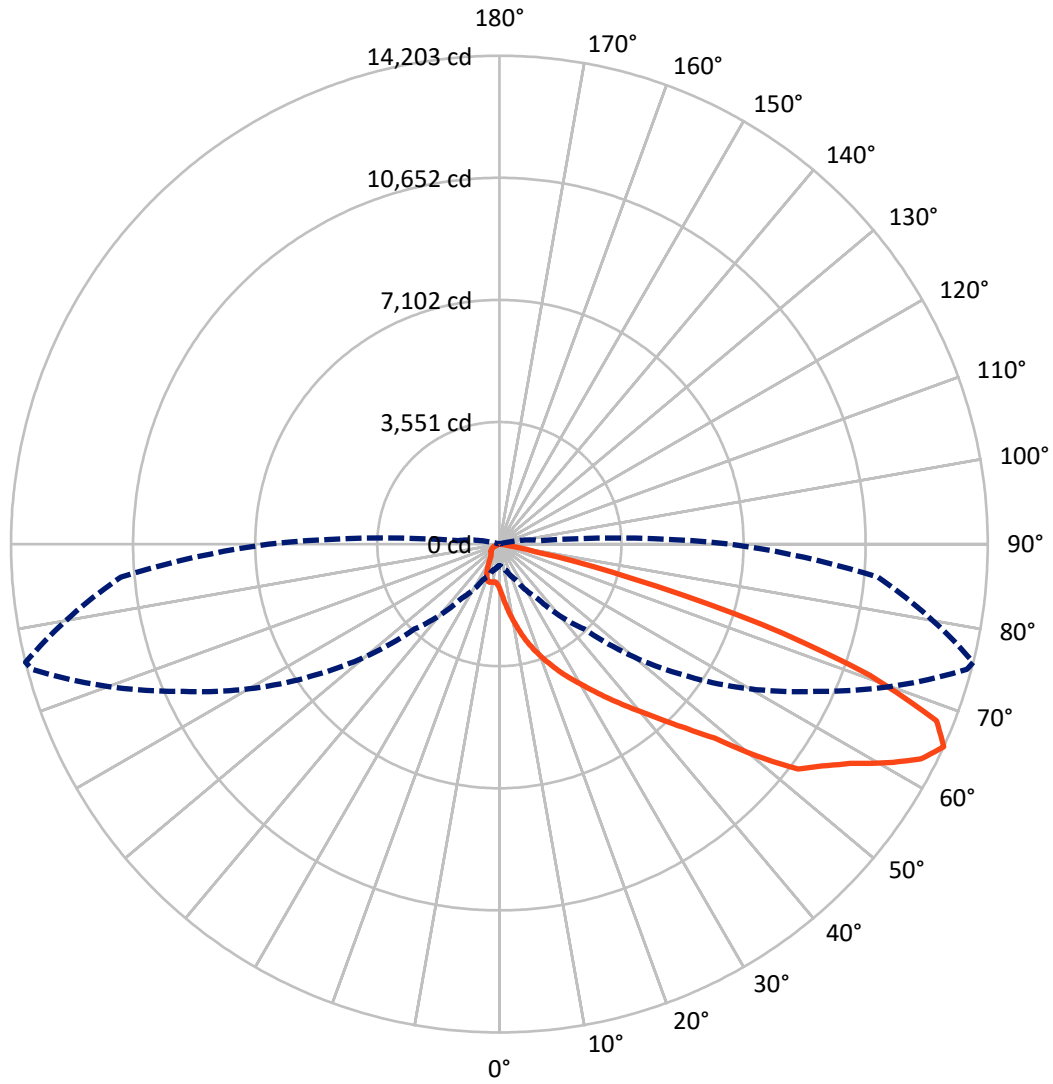
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P639319
CATALOG NUMBER: GWS-SA5B-750-U-T2R-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639319
 CATALOG NUMBER: GWS-SA5B-750-U-T2R-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.9	0.0	809.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	13838.0	0.0	13838.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	14647.9	0.0	14647.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.1
10°-20°	598.7	4.1
20°-30°	1221.4	8.3
30°-40°	2172.2	14.8
40°-50°	3211.1	21.9
50°-60°	3676.4	25.1
60°-70°	2804.9	19.1
70°-80°	785.7	5.4
80°-90°	19.8	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°	14647.9	100.0
0°-180°	14647.9	100.0

Coefficient of Utilization



REPORT NUMBER: P639319

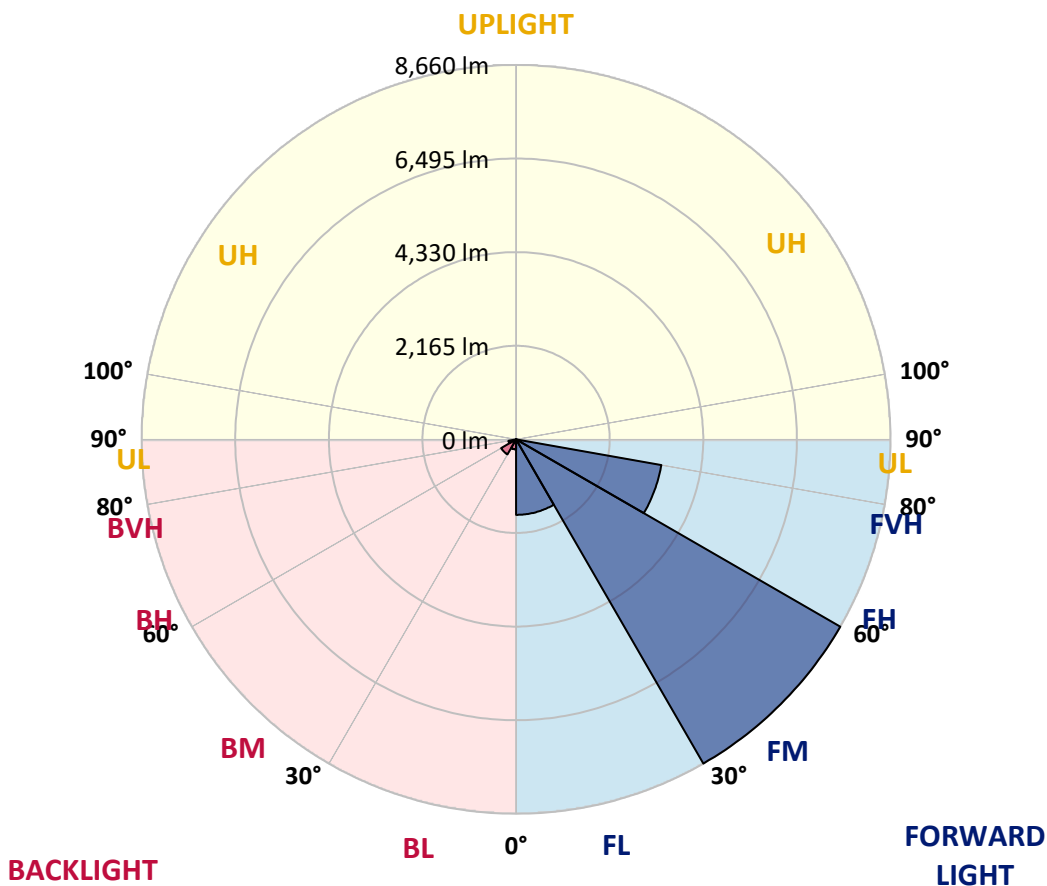
CATALOG NUMBER: GWS-SA5B-750-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.7	11.9			
FM (30°-60°)	8660.1	59.1			
FH (60°-80°)	3412.6	23.3			G2/5000
FVH (80°-90°)	18.6	0.1			G1/100
BL (0°-30°)	231.1	1.6	B1/500		
BM (30°-60°)	399.6	2.7	B1/1000		
BH (60°-80°)	178.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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: P639319

CATALOG NUMBER: GWS-SA5B-750-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1998.7	2028.6	2005.2	1966.1	1890.6	1817.7	1724.0	1595.1	1492.2	1479.2	1382.8
5°	2699.2	2696.6	2645.8	2595.0	2515.6	2390.6	2201.8	1962.2	1731.8	1712.2	1496.1
7.5°	3115.9	3119.8	3091.1	3052.1	2974.0	2845.0	2648.4	2359.4	2022.1	1983.1	1651.0
10°	3466.1	3464.8	3444.0	3425.8	3355.5	3269.5	3058.6	2740.9	2334.6	2273.4	1824.2
12.5°	3729.2	3738.3	3748.7	3766.9	3737.0	3652.3	3453.1	3106.8	2651.0	2583.3	2022.1
15°	3937.5	3940.1	3979.2	4049.5	4074.2	4029.9	3849.0	3460.9	2963.5	2904.9	2250.0
17.5°	4000.0	4005.2	4071.6	4200.5	4330.7	4355.5	4218.7	3817.7	3270.8	3208.3	2471.4
20°	4131.5	4143.2	4192.7	4306.0	4470.0	4602.9	4549.5	4178.4	3578.1	3496.1	2697.9
22.5°	4545.6	4552.1	4535.2	4549.5	4634.1	4787.8	4820.3	4527.3	3893.2	3806.0	2942.7
25°	5257.8	5260.4	5141.9	5029.9	4966.1	4994.8	5066.4	4849.0	4205.7	4119.8	3170.6
27.5°	5997.4	6006.5	5864.6	5674.5	5446.6	5316.4	5295.6	5143.2	4520.8	4425.8	3395.8
30°	6694.0	6694.0	6544.3	6312.5	6007.8	5753.9	5604.2	5440.1	4858.1	4753.9	3626.3
32.5°	7320.3	7315.1	7123.7	6872.4	6571.6	6293.0	5977.9	5750.0	5233.1	5117.2	3891.9
35°	7837.2	7824.2	7606.8	7365.9	7044.3	6837.2	6485.7	6083.3	5639.3	5523.4	4165.4
37.5°	8227.9	8213.5	8014.3	7759.1	7460.9	7326.8	7032.5	6483.1	6067.7	5962.2	4468.7
40°	8440.1	8411.4	8273.4	8083.3	7833.3	7716.1	7593.7	6979.2	6571.6	6440.1	4826.8
42.5°	8502.6	8468.7	8377.6	8289.1	8138.0	8045.6	8177.1	7539.1	7125.0	7011.7	5235.7
45°	8317.7	8298.2	8290.4	8354.2	8381.5	8407.5	8731.8	8158.8	7735.7	7649.7	5750.0
47.5°	7872.4	7867.2	7936.2	8201.8	8490.9	8765.6	9334.6	8923.2	8527.3	8434.9	6468.7
50°	7049.5	7102.9	7295.6	7761.7	8339.8	8968.7	9898.4	9983.1	9808.6	9673.2	7406.2
52.5°	5763.0	5865.9	6298.2	7006.5	7837.2	8911.4	10158.8	10832.0	11010.4	10869.8	8078.1
55°	4522.1	4618.5	5003.9	5902.3	7010.4	8475.3	10170.6	11125.0	11514.3	11384.1	8532.5
57.5°	3368.5	3457.0	3807.3	4666.7	5885.4	7617.2	9891.9	11287.7	12112.0	12028.6	9250.0
60°	2201.8	2289.1	2605.5	3356.8	4565.1	6367.2	9205.7	11253.9	12925.8	12918.0	10131.5
62.5°	1221.4	1290.4	1519.5	2105.5	3186.2	4931.0	8127.6	10914.0	13713.5	13763.0	10858.1
65°	625.0	669.3	808.6	1157.6	1928.4	3496.1	6709.6	10135.4	14078.1	14203.1	11049.5
67.5°	408.9	423.2	457.0	601.6	1032.6	2199.2	5049.5	8886.7	13565.1	13710.9	10407.5
70°	332.0	343.7	363.3	401.0	532.6	1168.0	3316.4	7097.6	11334.6	11433.6	8287.8
72.5°	243.5	259.1	296.9	321.6	384.1	640.6	1725.3	4658.8	7783.8	7958.3	5208.3
75°	179.7	188.8	220.1	253.9	313.8	404.9	660.2	2449.2	4019.5	3918.0	2187.5
77.5°	108.1	114.6	140.6	162.8	224.0	252.6	230.5	904.9	1222.7	1149.7	528.6
80°	53.4	59.9	92.4	122.4	143.2	101.6	96.4	252.6	272.1	272.1	132.8
82.5°	18.2	23.4	49.5	80.7	70.3	39.1	45.6	65.1	72.9	76.8	39.1
85°	0.0	0.0	11.7	23.4	10.4	5.2	11.7	14.3	18.2	19.5	13.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	5.2	5.2
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: P639319
 CATALOG NUMBER: GWS-SA5B-750-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1330.7	1269.5	1177.1	1093.7	1029.9	970.1	924.5	888.0	881.5	860.7	863.3
5°	1390.6	1279.9	1109.4	977.9	885.4	822.9	770.8	731.8	714.8	697.9	684.9
7.5°	1483.1	1322.9	1083.3	923.2	815.1	718.7	638.0	572.9	541.7	522.1	509.1
10°	1596.4	1382.8	1084.6	890.6	730.5	583.3	472.7	401.0	367.2	356.8	355.5
12.5°	1731.8	1458.3	1095.1	837.2	608.1	433.6	350.3	317.7	307.3	298.2	298.2
15°	1875.0	1543.0	1095.1	739.6	463.5	338.5	303.4	282.6	269.5	264.3	261.7
17.5°	2026.0	1622.4	1069.0	605.5	355.5	298.2	269.5	250.0	239.6	231.8	229.2
20°	2187.5	1697.9	1003.9	463.5	304.7	266.9	239.6	220.1	209.6	201.8	201.8
22.5°	2351.6	1768.2	898.4	356.8	269.5	237.0	210.9	192.7	182.3	174.5	174.5
25°	2503.9	1815.1	763.0	294.3	243.5	210.9	187.5	169.3	157.6	152.3	149.7
27.5°	2645.8	1845.0	613.3	259.1	218.7	188.8	164.1	147.1	138.0	134.1	131.5
30°	2793.0	1852.9	468.7	235.7	197.9	166.7	143.2	130.2	122.4	117.2	117.2
32.5°	2936.2	1843.7	358.1	216.1	179.7	147.1	127.6	115.9	109.4	105.5	104.2
35°	3082.0	1802.1	290.4	199.2	161.5	128.9	113.3	104.2	100.3	95.1	95.1
37.5°	3240.9	1746.1	252.6	182.3	143.2	115.9	101.6	95.1	89.8	85.9	84.6
40°	3438.8	1681.0	231.8	168.0	126.3	104.2	91.1	84.6	80.7	76.8	75.5
42.5°	3673.2	1617.2	221.4	152.3	113.3	92.4	82.0	74.2	70.3	65.1	63.8
45°	4005.2	1602.9	209.6	135.4	101.6	83.3	71.6	63.8	58.6	54.7	53.4
47.5°	4539.1	1643.2	190.1	117.2	89.8	72.9	61.2	54.7	48.2	44.3	41.7
50°	5069.0	1632.8	170.6	101.6	79.4	62.5	52.1	45.6	39.1	35.2	33.9
52.5°	5358.1	1583.3	152.3	89.8	69.0	53.4	44.3	36.5	32.6	28.6	27.3
55°	5619.8	1563.8	134.1	78.1	58.6	46.9	36.5	29.9	27.3	23.4	22.1
57.5°	6132.8	1609.4	118.5	67.7	50.8	40.4	31.2	24.7	22.1	18.2	16.9
60°	6669.3	1614.6	101.6	58.6	44.3	33.9	24.7	19.5	16.9	13.0	11.7
62.5°	6949.2	1483.1	83.3	49.5	36.5	28.6	20.8	15.6	13.0	7.8	7.8
65°	6714.8	1199.2	70.3	40.4	28.6	22.1	15.6	11.7	7.8	3.9	1.3
67.5°	5942.7	852.9	58.6	32.6	20.8	15.6	11.7	7.8	1.3	0.0	0.0
70°	4351.6	487.0	45.6	23.4	15.6	10.4	7.8	3.9	0.0	0.0	0.0
72.5°	2674.5	260.4	33.9	15.6	11.7	7.8	6.5	2.6	0.0	0.0	0.0
75°	1014.3	125.0	20.8	10.4	9.1	6.5	3.9	1.3	0.0	0.0	0.0
77.5°	274.7	61.2	11.7	7.8	6.5	3.9	2.6	0.0	0.0	0.0	0.0
80°	71.6	28.6	7.8	5.2	3.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	13.0	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	10.4	5.2	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	1.3	1.3	1.3	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)