

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: P636813

Luminaire Tested: GWS-SA4B-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13432 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

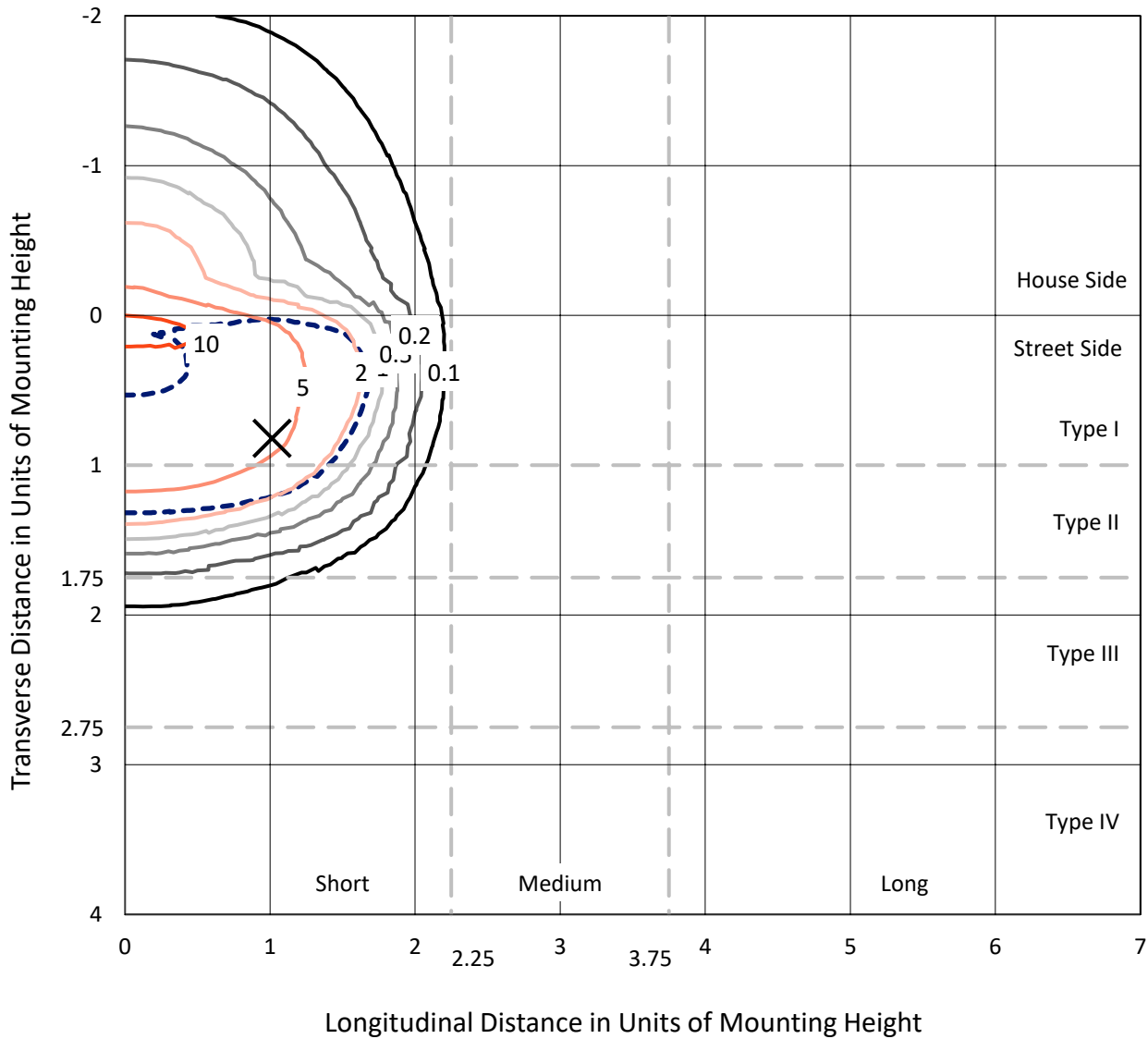
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636813
 CATALOG NUMBER: GWS-SA4B-750-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

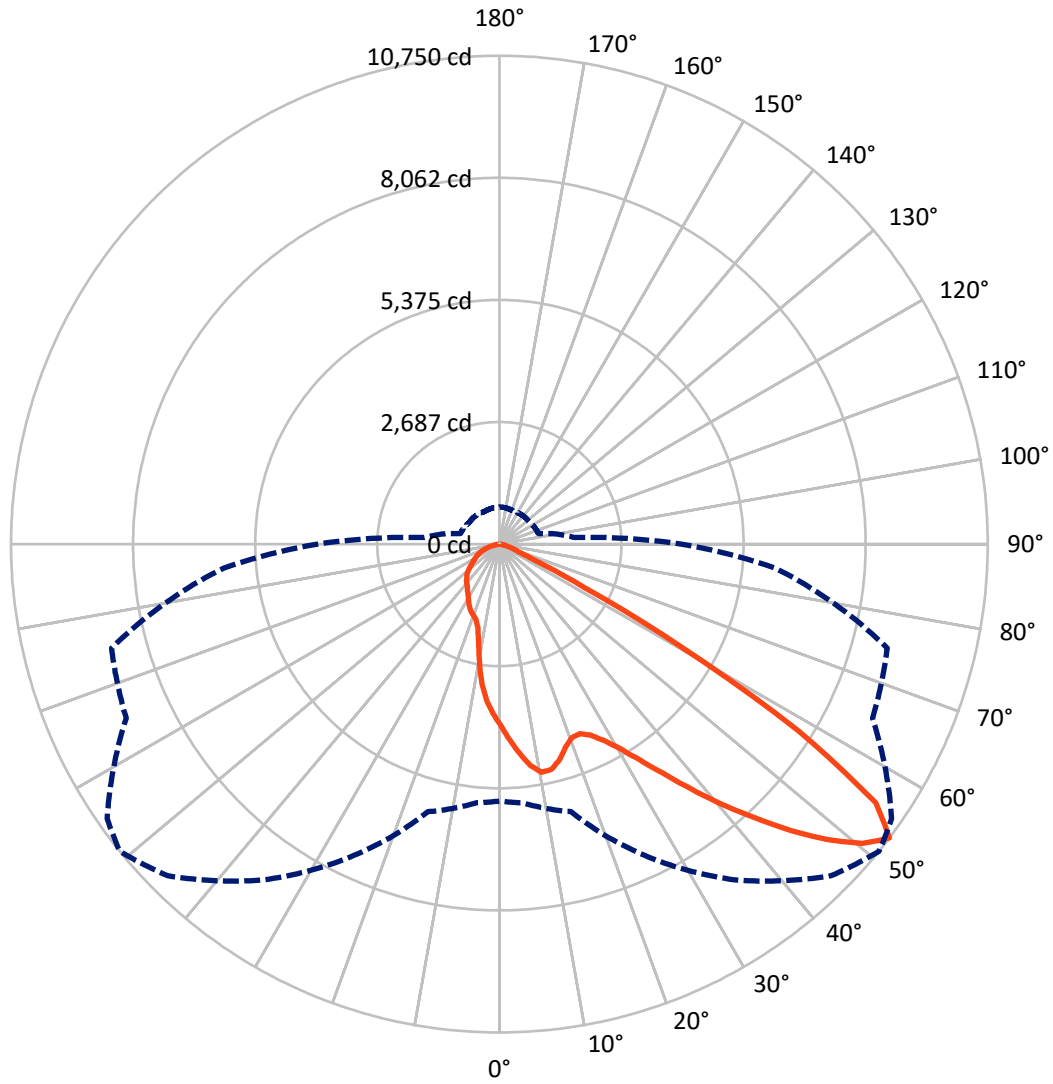
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

REPORT NUMBER: P636813
CATALOG NUMBER: GWS-SA4B-750-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P636813

CATALOG NUMBER: GWS-SA4B-750-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.1	0.0	2617.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10814.9	0.0	10814.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	13432.0	0.0	13432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	2.8
10°-20°	969.7	7.2
20°-30°	1576.7	11.7
30°-40°	2498.7	18.6
40°-50°	3768.6	28.1
50°-60°	3260.1	24.3
60°-70°	739.1	5.5
70°-80°	217.9	1.6
80°-90°	28.1	0.2
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°	13432.0	100.0
0°-180°	13432.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636813

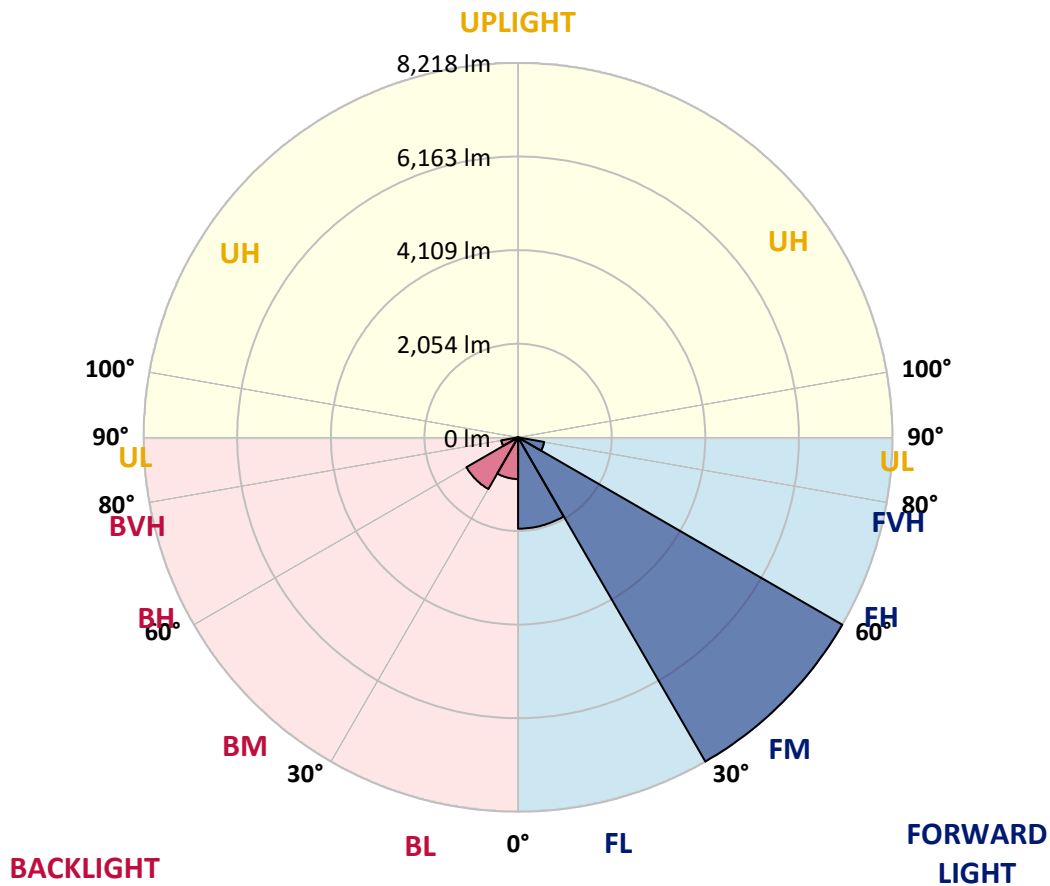
CATALOG NUMBER: GWS-SA4B-750-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.8	14.9			
FM (30°-60°)	8217.9	61.2			
FH (60°-80°)	581.7	4.3			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	914.8	6.8	B2/1000		
BM (30°-60°)	1309.4	9.7	B2/2500		
BH (60°-80°)	375.4	2.8	B1/500		G1/500
BVH (80°-90°)	17.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P636813

CATALOG NUMBER: GWS-SA4B-750-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4
2.5°	4456.8	4482.3	4443.0	4428.2	4403.8	4361.3	4312.5	4298.7	4193.6	4124.6	4047.1
5°	4904.8	4918.6	4886.7	4854.9	4794.4	4719.0	4624.5	4604.4	4413.3	4255.2	4090.7
7.5°	5004.5	4999.2	5026.8	5044.9	5037.4	5007.7	4923.9	4884.6	4656.4	4405.9	4162.8
10°	4609.7	4580.0	4681.9	4802.9	4948.3	5116.0	5106.4	5103.2	4904.8	4608.6	4255.2
12.5°	4086.4	4071.6	4154.3	4306.1	4581.0	4952.5	5091.6	5199.8	5128.7	4801.8	4358.1
15°	3787.1	3781.8	3838.0	3947.4	4166.0	4635.2	4932.4	5146.8	5320.8	5008.8	4467.5
17.5°	3733.0	3736.1	3755.3	3817.9	3975.0	4361.3	4705.2	5004.5	5470.5	5235.9	4604.4
20°	3891.1	3912.3	3879.4	3889.0	3973.9	4262.6	4550.2	4861.2	5566.0	5464.1	4751.9
22.5°	4242.4	4235.0	4162.8	4120.4	4121.4	4323.1	4533.3	4794.4	5628.6	5686.0	4885.7
25°	4640.5	4632.0	4546.0	4451.5	4392.1	4487.6	4655.3	4865.5	5684.9	5888.7	4992.9
27.5°	5110.7	5084.1	4988.6	4867.6	4736.0	4777.4	4891.0	5057.6	5771.9	6088.2	5064.0
30°	5566.0	5596.8	5459.9	5316.6	5177.5	5152.1	5217.9	5368.6	5949.2	6321.7	5148.9
32.5°	6170.0	6159.3	6007.6	5820.7	5622.3	5603.2	5655.2	5793.2	6267.6	6644.4	5278.4
35°	6901.3	6903.4	6687.9	6435.3	6153.0	6102.0	6189.1	6322.8	6742.0	7081.7	5483.2
37.5°	7661.2	7658.0	7470.2	7183.6	6798.3	6726.1	6825.9	6925.7	7335.4	7677.1	5801.6
40°	8194.1	8215.3	8127.2	7976.5	7611.3	7435.1	7523.2	7592.2	7980.7	8377.7	6220.9
42.5°	8496.6	8528.4	8547.5	8637.7	8445.6	8257.7	8225.9	8262.0	8557.1	9028.3	6614.7
45°	8561.3	8603.8	8742.8	9077.1	9151.4	9098.4	8994.4	8907.3	8986.9	9490.0	6872.6
47.5°	8275.8	8350.1	8647.3	9232.1	9666.2	9832.9	9717.2	9584.5	9235.3	9608.9	6846.1
50°	7144.3	7231.4	7901.1	8915.8	9739.5	10346.6	10357.2	10160.8	9205.6	9266.1	6512.8
52.5°	5656.2	5715.7	6098.8	7558.3	9020.9	10325.4	10749.9	10539.8	9062.3	8837.3	6095.7
55°	3380.6	3476.1	3833.8	4986.5	7027.6	9151.4	10055.8	10157.7	8992.2	8477.4	5811.2
57.5°	1141.0	1187.7	1529.5	2202.4	4141.6	6700.7	7769.5	8183.4	8163.3	7927.6	5256.1
60°	543.4	554.1	623.0	835.3	1657.9	3501.6	4599.1	5076.7	5511.9	5555.4	3270.2
62.5°	413.9	420.3	455.3	501.0	666.6	1475.4	2108.0	2473.1	2641.8	2267.2	1190.9
65°	346.0	351.3	377.9	406.5	453.2	639.0	808.8	933.0	840.6	654.9	567.9
67.5°	288.7	292.9	313.1	343.9	375.7	427.7	449.0	461.7	484.0	543.4	522.2
70°	226.1	230.3	251.6	278.1	308.9	321.6	341.8	354.5	399.1	475.5	473.4
72.5°	174.1	179.4	191.1	208.0	233.5	246.2	268.5	283.4	308.9	370.4	395.9
75°	127.4	130.6	141.2	146.5	149.7	146.5	168.8	185.7	219.7	243.1	249.4
77.5°	52.0	58.4	56.3	56.3	66.9	80.7	92.3	103.0	126.3	140.1	141.2
80°	21.2	23.4	27.6	30.8	37.1	47.8	55.2	59.4	70.1	78.5	84.9
82.5°	12.7	13.8	15.9	17.0	21.2	27.6	31.8	35.0	43.5	52.0	55.2
85°	6.4	6.4	7.4	8.5	10.6	12.7	14.9	17.0	22.3	27.6	30.8
87.5°	1.1	1.1	1.1	2.1	3.2	4.2	5.3	6.4	7.4	8.5	10.6
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: P636813

CATALOG NUMBER: GWS-SA4B-750-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4	3999.4
2.5°	4001.5	3944.2	3877.3	3824.2	3762.7	3717.0	3652.3	3612.0	3573.8	3541.9	3518.6
5°	4005.7	3909.2	3770.1	3647.0	3519.6	3398.6	3274.4	3173.6	3083.4	3008.0	3001.7
7.5°	4030.2	3891.1	3673.5	3458.1	3209.7	2969.8	2729.9	2534.6	2386.0	2308.6	2292.6
10°	4071.6	3889.0	3574.8	3230.9	2807.4	2421.1	2136.6	1988.0	1902.0	1871.3	1860.6
12.5°	4115.1	3883.7	3448.5	2910.4	2322.4	1983.8	1827.7	1809.7	1825.6	1827.7	1826.7
15°	4168.1	3880.5	3289.3	2534.6	1967.8	1781.0	1791.7	1829.9	1867.0	1875.5	1875.5
17.5°	4232.9	3873.1	3072.8	2167.4	1746.0	1741.8	1798.0	1849.0	1884.0	1890.4	1890.4
20°	4300.8	3854.0	2806.4	1868.1	1655.8	1717.4	1777.9	1817.1	1841.5	1850.0	1851.1
22.5°	4347.5	3803.0	2499.6	1646.2	1599.5	1670.7	1714.2	1754.5	1754.5	1733.3	1726.9
25°	4357.1	3693.7	2167.4	1494.5	1532.7	1598.5	1643.1	1619.7	1576.2	1559.2	1558.1
27.5°	4322.0	3534.5	1839.4	1386.2	1452.0	1517.8	1510.4	1476.4	1457.3	1440.3	1446.7
30°	4279.6	3343.4	1555.0	1297.0	1358.6	1423.3	1397.9	1386.2	1372.4	1353.3	1357.5
32.5°	4250.9	3130.1	1336.3	1228.0	1296.0	1306.6	1324.6	1323.6	1310.8	1274.7	1272.6
35°	4259.4	2914.6	1189.8	1171.8	1244.0	1239.7	1273.7	1267.3	1179.2	1129.3	1126.2
37.5°	4327.4	2707.6	1103.9	1127.2	1161.2	1187.7	1217.4	1141.0	1110.2	1078.4	1080.5
40°	4456.8	2515.5	1057.2	1102.8	1111.3	1150.6	1081.6	1080.5	1066.7	1038.1	1037.0
42.5°	4603.3	2353.1	1025.3	1091.1	1079.4	1086.9	1013.6	1022.1	1021.1	1003.0	997.7
45°	4692.5	2203.5	999.8	1047.6	1050.8	976.5	954.2	963.8	969.1	959.5	958.4
47.5°	4600.1	2031.5	973.3	980.7	1008.3	926.6	899.0	900.1	909.6	910.7	906.4
50°	4341.1	1839.4	941.5	923.4	905.4	874.6	849.1	843.8	853.4	862.9	866.1
52.5°	4006.8	1655.8	888.4	860.8	818.3	818.3	806.7	789.7	802.4	815.2	819.4
55°	3761.6	1519.9	813.0	782.3	735.6	751.5	749.4	734.5	751.5	761.0	764.2
57.5°	3259.6	1221.7	715.4	705.8	666.6	685.7	689.9	670.8	662.3	664.4	667.6
60°	1934.9	788.6	645.3	644.3	609.2	631.5	644.3	625.2	599.7	602.9	607.1
62.5°	868.2	602.9	557.2	553.0	551.9	580.6	594.4	576.3	540.3	543.4	547.7
65°	546.6	521.2	484.0	484.0	501.0	525.4	536.0	521.2	479.8	474.4	478.7
67.5°	507.4	485.1	446.9	439.4	447.9	468.1	469.1	440.5	416.1	411.8	411.8
70°	455.3	438.4	401.2	386.4	383.2	382.1	378.9	371.5	355.6	351.3	353.4
72.5°	376.8	365.1	341.8	325.9	317.4	316.3	303.6	297.2	283.4	281.3	280.2
75°	249.4	252.6	252.6	250.5	243.1	239.9	226.1	219.7	203.8	197.4	196.4
77.5°	147.5	150.7	155.0	156.0	155.0	155.0	142.2	134.8	118.9	110.4	108.3
80°	90.2	92.3	94.5	97.6	93.4	90.2	78.5	71.1	63.7	58.4	57.3
82.5°	58.4	60.5	61.6	63.7	61.6	57.3	47.8	43.5	38.2	34.0	32.9
85°	32.9	34.0	36.1	36.1	32.9	29.7	24.4	21.2	18.0	15.9	15.9
87.5°	11.7	11.7	11.7	12.7	10.6	9.6	6.4	4.2	3.2	3.2	3.2
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)