

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: P639343

Luminaire Tested: GWS-SA5B-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639343
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-SA5B-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16251.4 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

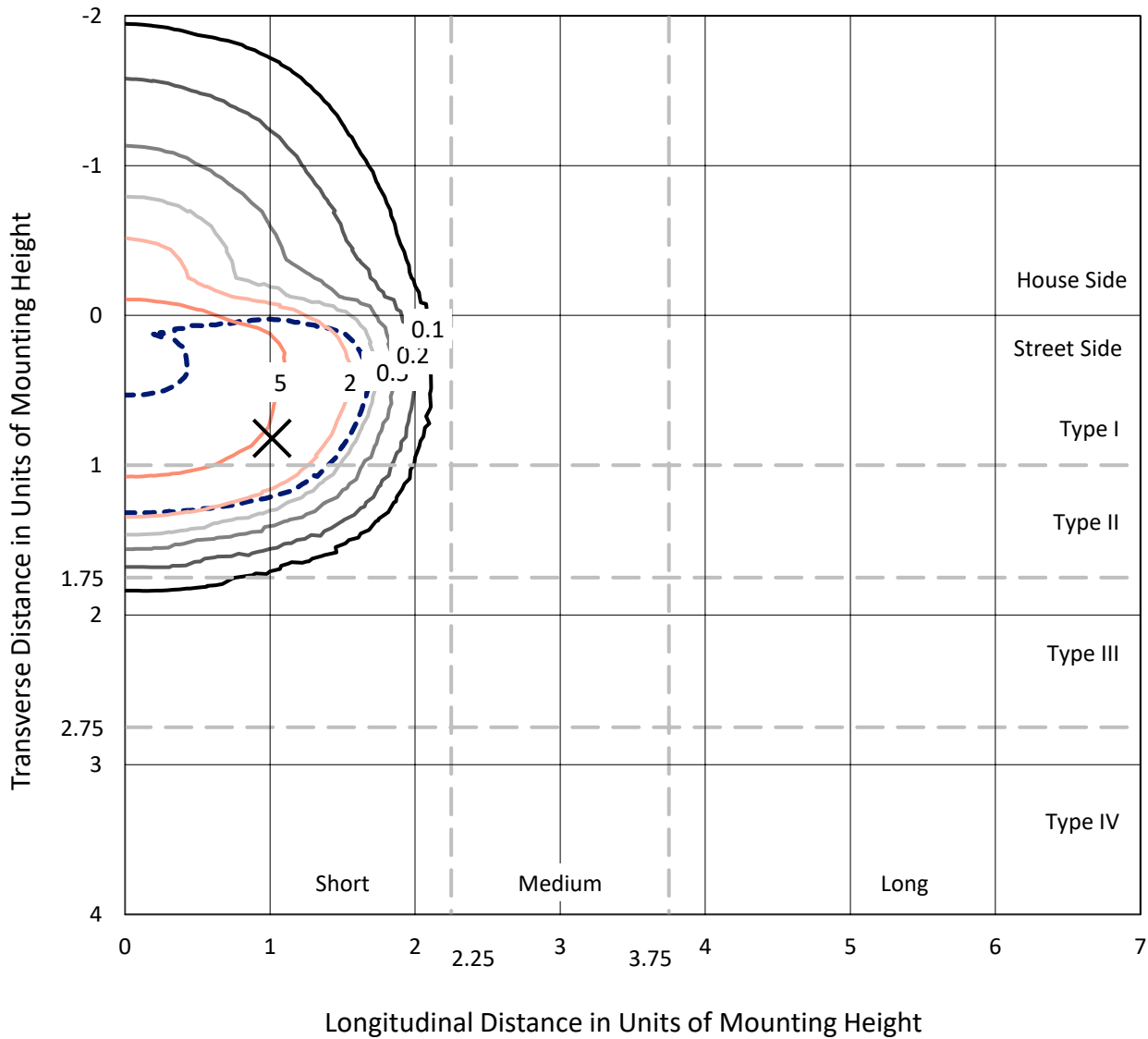
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639343
 CATALOG NUMBER: GWS-SA5B-760-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

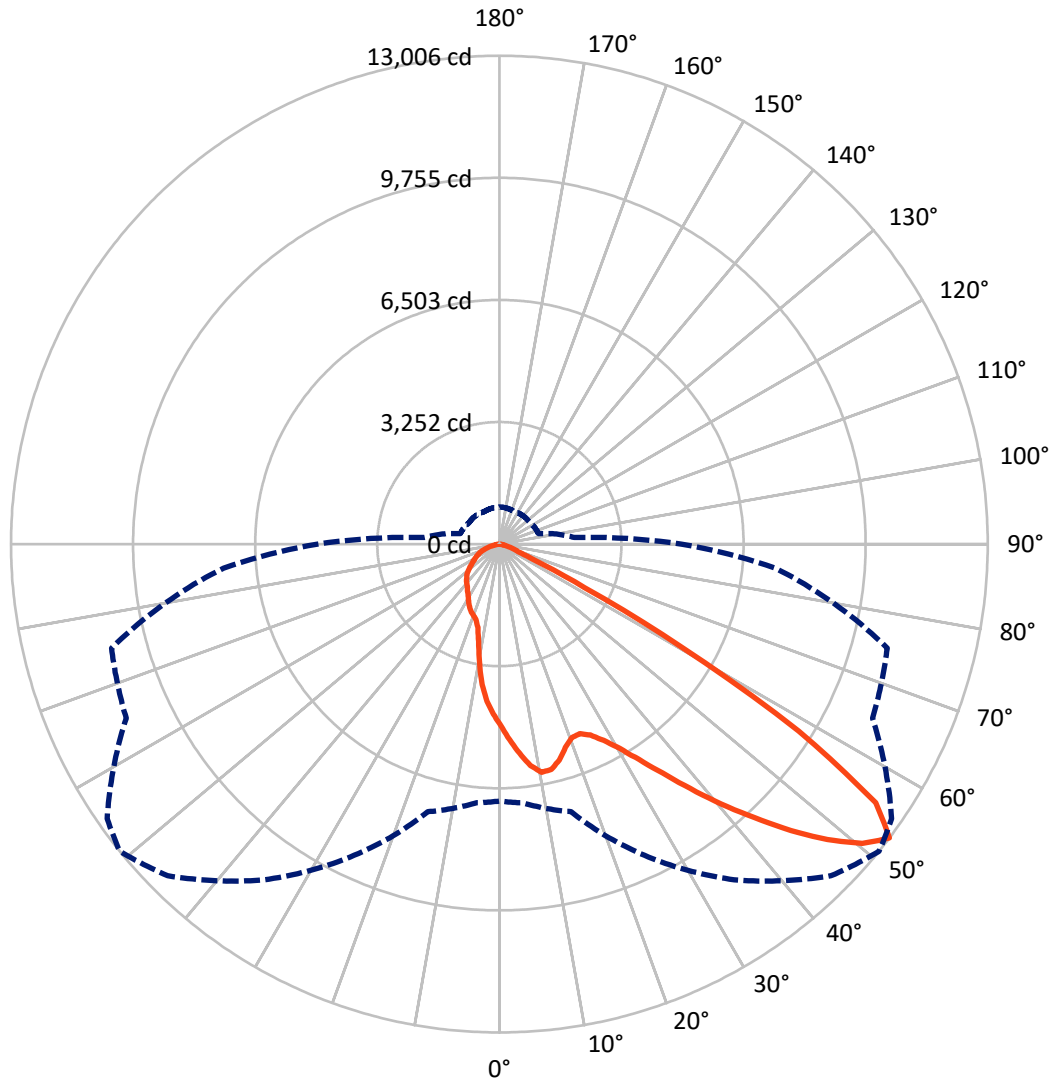
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P639343
CATALOG NUMBER: GWS-SA5B-760-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639343

CATALOG NUMBER: GWS-SA5B-760-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3166.5	0.0	3166.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13084.9	0.0	13084.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	16251.4	0.0	16251.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	2.8
10°-20°	1173.3	7.2
20°-30°	1907.6	11.7
30°-40°	3023.2	18.6
40°-50°	4559.6	28.1
50°-60°	3944.4	24.3
60°-70°	894.2	5.5
70°-80°	263.7	1.6
80°-90°	34.0	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°	16251.4	100.0
0°-180°	16251.4	100.0

Coefficient of Utilization



REPORT NUMBER: P639343

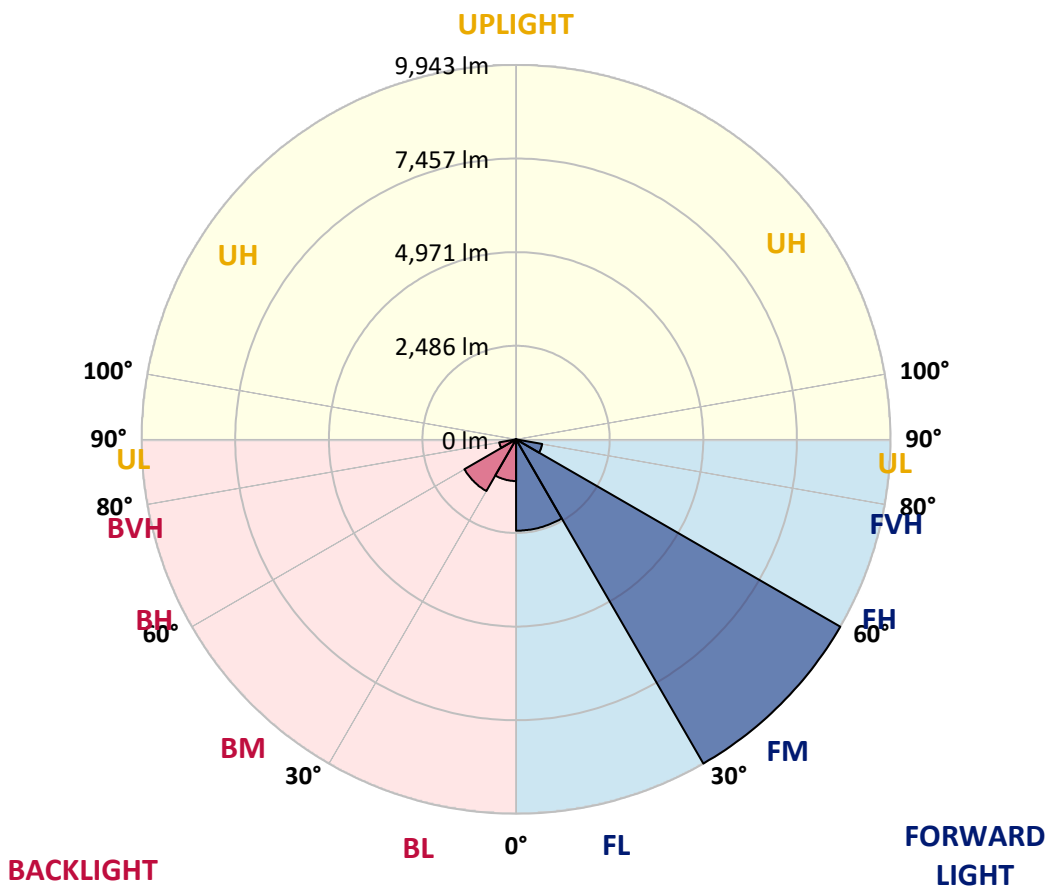
CATALOG NUMBER: GWS-SA5B-760-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.6	14.9			
FM (30°-60°)	9942.8	61.2			
FH (60°-80°)	703.7	4.3			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1106.9	6.8	B3/2500		
BM (30°-60°)	1584.3	9.7	B2/2500		
BH (60°-80°)	454.2	2.8	B1/500		G1/500
BVH (80°-90°)	21.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P639343

CATALOG NUMBER: GWS-SA5B-760-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9
2.5°	5392.3	5423.2	5375.6	5357.7	5328.1	5276.8	5217.7	5201.0	5073.9	4990.4	4896.6
5°	5934.3	5951.0	5912.4	5873.9	5800.7	5709.5	5595.2	5570.8	5339.7	5148.3	4949.3
7.5°	6055.0	6048.6	6082.0	6103.8	6094.8	6058.8	5957.4	5909.9	5633.8	5330.7	5036.6
10°	5577.3	5541.3	5664.6	5811.0	5986.9	6189.8	6178.3	6174.4	5934.3	5576.0	5148.3
12.5°	4944.2	4926.2	5026.3	5210.0	5542.6	5992.1	6160.3	6291.3	6205.2	5809.7	5272.9
15°	4582.0	4575.6	4643.7	4775.9	5040.5	5608.1	5967.7	6227.1	6437.7	6060.1	5405.2
17.5°	4516.5	4520.4	4543.5	4619.3	4809.3	5276.8	5692.8	6055.0	6618.7	6334.9	5570.8
20°	4707.9	4733.5	4693.7	4705.3	4808.0	5157.3	5505.4	5881.6	6734.3	6611.0	5749.3
22.5°	5132.9	5123.9	5036.6	4985.3	4986.5	5230.5	5484.8	5800.7	6810.1	6879.4	5911.2
25°	5614.5	5604.2	5500.2	5385.9	5314.0	5429.6	5632.5	5886.8	6878.2	7124.7	6040.9
27.5°	6183.4	6151.3	6035.7	5889.3	5730.1	5780.2	5917.6	6119.2	6983.5	7366.2	6126.9
30°	6734.3	6771.6	6605.9	6432.5	6264.3	6233.5	6313.1	6495.5	7197.9	7648.7	6229.6
32.5°	7465.0	7452.2	7268.6	7042.5	6802.4	6779.3	6842.2	7009.1	7583.2	8039.1	6386.3
35°	8349.8	8352.4	8091.7	7786.1	7444.5	7382.8	7488.2	7650.0	8157.2	8568.2	6634.2
37.5°	9269.3	9265.5	9038.2	8691.4	8225.3	8138.0	8258.7	8379.4	8875.1	9288.6	7019.4
40°	9914.0	9939.7	9833.1	9650.7	9209.0	8995.8	9102.4	9185.9	9655.9	10136.2	7526.7
42.5°	10280.0	10318.5	10341.6	10450.8	10218.4	9991.0	9952.5	9996.2	10353.2	10923.4	8003.1
45°	10358.3	10409.7	10577.9	10982.4	11072.3	11008.1	10882.3	10777.0	10873.3	11482.0	8315.2
47.5°	10012.9	10102.8	10462.3	11169.9	11695.2	11896.8	11756.8	11596.3	11173.8	11625.8	8283.1
50°	8643.9	8749.2	9559.6	10787.3	11783.8	12518.3	12531.2	12293.6	11137.8	11211.0	7879.8
52.5°	6843.5	6915.4	7379.0	9144.8	10914.4	12492.7	13006.3	12752.1	10964.5	10692.2	7375.1
55°	4090.2	4205.7	4638.5	6033.2	8502.7	11072.3	12166.5	12289.8	10879.7	10256.9	7031.0
57.5°	1380.5	1437.0	1850.5	2664.7	5010.9	8107.1	9400.3	9901.2	9876.8	9591.7	6359.3
60°	657.5	670.4	753.8	1010.7	2005.9	4236.6	5564.4	6142.3	6668.8	6721.5	3956.6
62.5°	500.8	508.5	550.9	606.1	806.5	1785.0	2550.4	2992.2	3196.4	2743.0	1440.9
65°	418.6	425.1	457.2	491.8	548.4	773.1	978.6	1128.8	1017.1	792.3	687.0
67.5°	349.3	354.4	378.8	416.1	454.6	517.5	543.2	558.6	585.6	657.5	631.8
70°	273.5	278.7	304.4	336.5	373.7	389.1	413.5	428.9	482.9	575.3	572.8
72.5°	210.6	217.0	231.2	251.7	282.5	297.9	324.9	342.9	373.7	448.2	479.0
75°	154.1	158.0	170.8	177.2	181.1	177.2	204.2	224.7	265.8	294.1	301.8
77.5°	62.9	70.6	68.1	68.1	80.9	97.6	111.7	124.6	152.8	169.5	170.8
80°	25.7	28.3	33.4	37.2	44.9	57.8	66.8	71.9	84.8	95.0	102.7
82.5°	15.4	16.7	19.3	20.5	25.7	33.4	38.5	42.4	52.7	62.9	66.8
85°	7.7	7.7	9.0	10.3	12.8	15.4	18.0	20.5	27.0	33.4	37.2
87.5°	1.3	1.3	1.3	2.6	3.9	5.1	6.4	7.7	9.0	10.3	12.8
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: P639343

CATALOG NUMBER: GWS-SA5B-760-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9	4838.9
2.5°	4841.4	4772.1	4691.2	4627.0	4552.5	4497.3	4418.9	4370.1	4323.9	4285.4	4257.1
5°	4846.6	4729.7	4561.5	4412.5	4258.4	4112.0	3961.7	3839.7	3730.6	3639.4	3631.7
7.5°	4876.1	4707.9	4444.6	4183.9	3883.4	3593.2	3303.0	3066.7	2886.9	2793.1	2773.9
10°	4926.2	4705.3	4325.2	3909.1	3396.7	2929.3	2585.1	2405.3	2301.3	2264.0	2251.2
12.5°	4978.8	4698.9	4172.4	3521.3	2809.8	2400.2	2211.4	2189.6	2208.8	2211.4	2210.1
15°	5043.0	4695.0	3979.7	3066.7	2380.9	2154.9	2167.7	2214.0	2258.9	2269.2	2269.2
17.5°	5121.4	4686.0	3717.7	2622.3	2112.5	2107.4	2175.4	2237.1	2279.4	2287.2	2287.2
20°	5203.6	4662.9	3395.4	2260.2	2003.3	2077.8	2151.0	2198.5	2228.1	2238.4	2239.6
22.5°	5260.1	4601.3	3024.3	1991.8	1935.3	2021.3	2074.0	2122.8	2122.8	2097.1	2089.4
25°	5271.6	4469.0	2622.3	1808.1	1854.4	1934.0	1987.9	1959.7	1907.0	1886.5	1885.2
27.5°	5229.2	4276.4	2225.5	1677.2	1756.8	1836.4	1827.4	1786.3	1763.2	1742.7	1750.4
30°	5177.9	4045.2	1881.3	1569.3	1643.8	1722.1	1691.3	1677.2	1660.5	1637.4	1642.5
32.5°	5143.2	3787.1	1616.8	1485.8	1568.0	1580.8	1602.7	1601.4	1586.0	1542.3	1539.8
35°	5153.5	3526.4	1439.6	1417.8	1505.1	1499.9	1541.0	1533.3	1426.7	1366.4	1362.5
37.5°	5235.7	3276.0	1335.6	1363.8	1404.9	1437.0	1473.0	1380.5	1343.3	1304.7	1307.3
40°	5392.3	3043.5	1279.1	1334.3	1344.6	1392.1	1308.6	1307.3	1290.6	1255.9	1254.7
42.5°	5569.6	2847.1	1240.5	1320.2	1306.0	1315.0	1226.4	1236.7	1235.4	1213.6	1207.1
45°	5677.4	2666.0	1209.7	1267.5	1271.4	1181.5	1154.5	1166.1	1172.5	1160.9	1159.6
47.5°	5565.7	2458.0	1177.6	1186.6	1220.0	1121.1	1087.7	1089.0	1100.6	1101.8	1096.7
50°	5252.4	2225.5	1139.1	1117.3	1095.4	1058.2	1027.4	1020.9	1032.5	1044.1	1047.9
52.5°	4847.8	2003.3	1074.9	1041.5	990.1	990.1	976.0	955.4	970.9	986.3	991.4
55°	4551.2	1839.0	983.7	946.5	889.9	909.2	906.6	888.7	909.2	920.8	924.6
57.5°	3943.8	1478.1	865.5	854.0	806.5	829.6	834.7	811.6	801.3	803.9	807.8
60°	2341.1	954.2	780.8	779.5	737.1	764.1	779.5	756.4	725.6	729.4	734.6
62.5°	1050.5	729.4	674.2	669.1	667.8	702.5	719.2	697.3	653.7	657.5	662.6
65°	661.4	630.5	585.6	585.6	606.1	635.7	648.5	630.5	580.5	574.0	579.2
67.5°	613.8	586.9	540.6	531.7	541.9	566.3	567.6	532.9	503.4	498.3	498.3
70°	550.9	530.4	485.4	467.4	463.6	462.3	458.5	449.5	430.2	425.1	427.6
72.5°	455.9	441.8	413.5	394.2	384.0	382.7	367.3	359.6	342.9	340.3	339.0
75°	301.8	305.6	305.6	303.1	294.1	290.2	273.5	265.8	246.6	238.9	237.6
77.5°	178.5	182.4	187.5	188.8	187.5	187.5	172.1	163.1	143.8	133.6	131.0
80°	109.2	111.7	114.3	118.1	113.0	109.2	95.0	86.0	77.1	70.6	69.3
82.5°	70.6	73.2	74.5	77.1	74.5	69.3	57.8	52.7	46.2	41.1	39.8
85°	39.8	41.1	43.7	43.7	39.8	36.0	29.5	25.7	21.8	19.3	19.3
87.5°	14.1	14.1	14.1	15.4	12.8	11.6	7.7	5.1	3.9	3.9	3.9
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)