

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: P637860

Luminaire Tested: GWS-SA4D-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25159.3 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 162.1
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

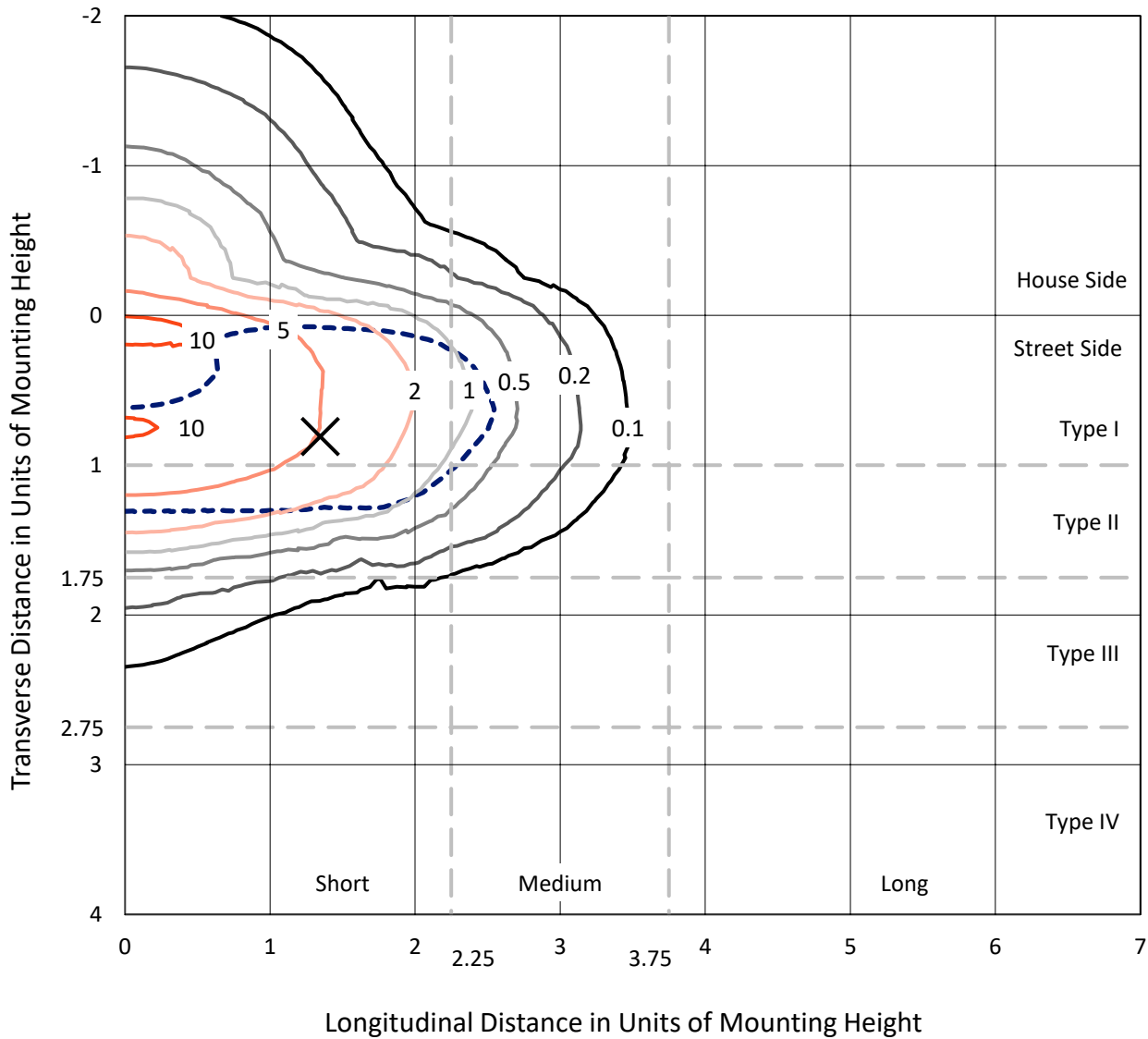


REPORT NUMBER: P637860

CATALOG NUMBER: GWS-SA4D-760-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

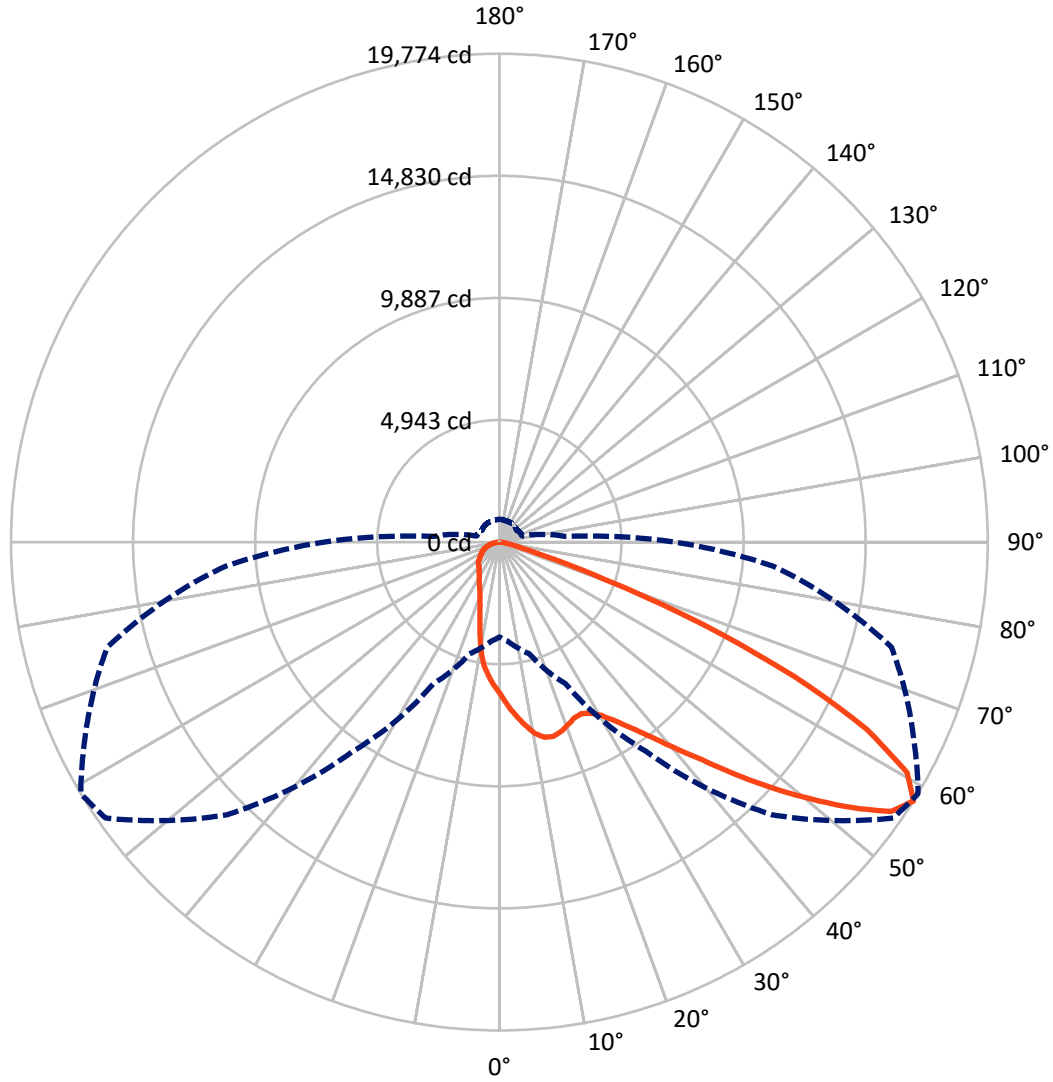
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

REPORT NUMBER: P637860
CATALOG NUMBER: GWS-SA4D-760-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637860

CATALOG NUMBER: GWS-SA4D-760-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3904.6	0.0	3904.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	21254.7	0.0	21254.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	25159.3	0.0	25159.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.5	2.3
10°-20°	1453.2	5.8
20°-30°	2355.6	9.4
30°-40°	3789.3	15.1
40°-50°	5884.4	23.4
50°-60°	6338.2	25.2
60°-70°	3678.5	14.6
70°-80°	960.3	3.8
80°-90°	126.5	0.5
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°	25159.3	100.0
0°-180°	25159.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637860

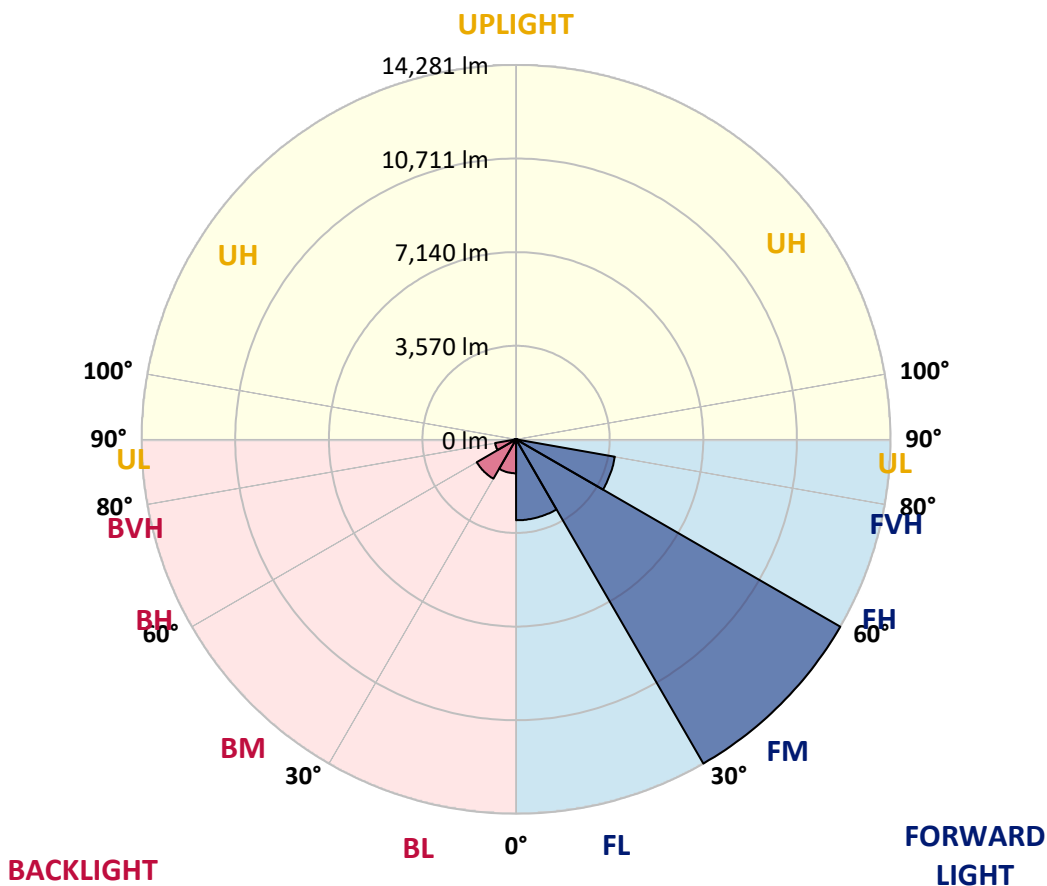
CATALOG NUMBER: GWS-SA4D-760-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.8	12.3			
FM (30°-60°)	14280.7	56.8			
FH (60°-80°)	3826.6	15.2			G2/5000
FVH (80°-90°)	60.6	0.2			G1/100
BL (0°-30°)	1295.4	5.1	B3/2500		
BM (30°-60°)	1731.1	6.9	B2/2500		
BH (60°-80°)	812.1	3.2	B2/1000		G2/1000
BVH (80°-90°)	65.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P637860

CATALOG NUMBER: GWS-SA4D-760-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1
2.5°	7005.0	6946.6	6987.3	6914.7	6884.6	6804.9	6702.1	6633.1	6526.8	6388.6	6268.2
5°	7701.1	7660.4	7669.2	7591.3	7522.2	7389.4	7178.6	7061.7	6881.0	6603.0	6344.4
7.5°	7679.8	7727.7	7754.2	7821.5	7841.0	7828.6	7639.1	7476.2	7277.8	6859.8	6470.1
10°	6884.6	6974.9	7056.4	7286.6	7566.5	7920.7	7965.0	7867.6	7667.4	7187.4	6620.7
12.5°	6018.5	6087.5	6160.2	6436.5	6865.1	7573.6	8053.6	8113.8	8034.1	7511.6	6790.7
15°	5593.4	5625.3	5694.3	5876.8	6218.6	7005.0	7899.5	8163.4	8306.8	7855.2	6982.0
17.5°	5575.7	5589.8	5623.5	5720.9	5958.2	6565.8	7621.4	8064.2	8521.1	8218.3	7205.2
20°	5942.3	5905.1	5883.9	5882.1	5999.0	6418.8	7352.2	7904.8	8622.1	8590.2	7444.3
22.5°	6450.6	6463.0	6417.0	6303.6	6289.5	6523.3	7217.6	7743.6	8652.2	8919.7	7665.7
25°	7171.5	7233.5	7097.1	6881.0	6774.8	6826.1	7300.8	7694.0	8648.7	9194.2	7803.8
27.5°	8012.8	8060.6	7922.5	7639.1	7419.5	7295.5	7548.8	7841.0	8678.8	9431.5	7887.1
30°	8971.0	8987.0	8797.5	8499.9	8179.3	7913.6	7961.5	8143.9	8832.9	9743.3	7984.5
32.5°	10141.8	10209.1	9922.2	9451.0	9002.9	8662.8	8515.8	8632.7	9165.9	10111.7	8135.0
35°	11627.8	11650.8	11286.0	10611.1	9977.1	9505.9	9197.7	9259.7	9672.4	10627.1	8361.7
37.5°	13028.8	13051.8	12663.9	12036.9	11130.1	10485.4	10039.0	10010.7	10320.7	11355.0	8731.9
40°	13917.9	13983.5	13809.9	13416.7	12550.6	11680.9	11075.2	10977.8	11170.8	12245.9	9247.3
42.5°	14396.2	14424.5	14420.9	14472.3	13956.9	13092.6	12244.2	12049.3	12178.6	13207.7	9768.1
45°	14399.7	14470.5	14660.1	15154.2	15177.2	14638.8	13721.3	13416.7	13298.0	14176.5	10311.8
47.5°	13755.0	13831.1	14351.9	15324.3	16041.6	16163.8	15490.7	14879.7	14380.2	15010.8	10758.1
50°	11803.1	11994.4	12986.3	14706.1	16211.6	17385.9	17178.7	16349.8	15342.0	15655.5	11038.0
52.5°	10108.1	10101.0	10712.1	12959.7	15501.4	17924.3	18811.7	17862.4	16293.1	16064.6	11108.8
55°	7401.8	7442.5	8067.7	9911.5	13606.2	17403.6	19709.7	19254.5	17384.1	16282.5	11080.5
57.5°	3838.1	4040.1	4681.2	6324.9	10338.4	15611.2	19470.6	19773.5	18492.9	16436.6	11117.7
60°	1939.4	1900.5	2130.7	3019.9	5990.1	12192.8	17997.0	18962.3	18693.0	16557.0	11140.7
62.5°	1294.7	1284.1	1220.3	1399.2	2447.8	7221.1	15342.0	16695.1	17302.7	16273.6	10846.7
65°	1121.2	1099.9	983.0	975.9	1188.5	2995.1	11245.2	13124.4	14300.5	15014.3	10143.5
67.5°	1009.6	977.7	859.0	800.6	853.7	1316.0	6337.3	8802.8	10559.8	12697.6	8602.6
70°	901.5	885.6	766.9	681.9	676.6	802.3	2334.4	4543.1	6461.3	8662.8	6289.5
72.5°	807.7	779.3	678.4	596.9	556.2	568.5	1013.1	1749.9	3344.0	5403.9	3762.0
75°	699.6	678.4	589.8	508.3	458.7	416.2	618.1	809.4	1525.0	2568.2	1776.5
77.5°	540.2	526.0	465.8	403.8	375.5	310.0	375.5	510.1	704.9	1082.2	924.6
80°	313.5	322.4	347.2	315.3	276.3	221.4	244.4	294.0	423.3	586.3	524.3
82.5°	157.6	168.3	224.9	182.4	164.7	129.3	145.2	173.6	221.4	324.1	205.5
85°	12.4	12.4	40.7	46.1	56.7	46.1	58.4	70.8	101.0	129.3	69.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.9	15.9	30.1	19.5
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: P637860
 CATALOG NUMBER: GWS-SA4D-760-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1	6176.1
2.5°	6186.7	6096.4	5988.4	5899.8	5763.4	5690.8	5598.7	5485.3	5439.3	5418.0	5405.6
5°	6199.1	6039.7	5809.5	5596.9	5361.4	5175.4	4968.2	4752.1	4628.1	4598.0	4576.7
7.5°	6245.2	6022.0	5655.4	5304.7	4867.2	4461.6	4066.6	3675.2	3475.1	3398.9	3391.8
10°	6308.9	6014.9	5499.5	4916.8	4178.2	3537.0	3074.8	2768.4	2639.1	2596.6	2582.4
12.5°	6388.6	6009.6	5294.1	4378.4	3383.0	2777.2	2513.3	2463.7	2481.4	2477.9	2477.9
15°	6489.6	6016.7	5046.1	3769.1	2736.5	2410.6	2415.9	2474.3	2529.2	2538.1	2538.1
17.5°	6599.4	6009.6	4686.5	3158.0	2348.6	2323.8	2405.3	2486.7	2536.3	2543.4	2543.4
20°	6718.1	5976.0	4233.1	2582.4	2178.6	2268.9	2357.4	2421.2	2451.3	2458.4	2458.4
22.5°	6788.9	5880.3	3740.7	2185.6	2070.5	2182.1	2240.5	2306.1	2309.6	2252.9	2251.2
25°	6778.3	5701.4	3179.3	1930.6	1955.4	2052.8	2127.2	2081.1	2024.5	1992.6	1987.3
27.5°	6711.0	5432.2	2607.2	1737.5	1819.0	1928.8	1905.8	1866.8	1852.7	1817.2	1813.7
30°	6626.0	5101.0	2093.5	1587.0	1677.3	1778.3	1742.8	1739.3	1725.1	1686.2	1686.2
32.5°	6544.5	4759.2	1705.6	1475.4	1587.0	1594.1	1643.7	1647.2	1640.1	1572.8	1565.7
35°	6521.5	4417.3	1443.5	1386.8	1498.4	1494.9	1565.7	1564.0	1441.7	1347.9	1346.1
37.5°	6590.6	4070.2	1287.6	1314.2	1376.2	1422.3	1478.9	1376.2	1335.5	1278.8	1275.2
40°	6737.6	3749.6	1207.9	1271.7	1298.3	1365.6	1277.0	1284.1	1273.5	1231.0	1225.7
42.5°	6932.4	3476.8	1163.7	1257.5	1254.0	1271.7	1174.3	1202.6	1218.6	1186.7	1181.4
45°	7120.1	3239.5	1140.6	1204.4	1222.1	1119.4	1099.9	1126.5	1151.3	1138.9	1133.6
47.5°	7258.3	3034.0	1128.2	1131.8	1181.4	1068.0	1036.1	1048.5	1078.6	1084.0	1082.2
50°	7300.8	2858.7	1114.1	1071.6	1060.9	1016.7	991.9	988.3	1023.7	1048.5	1052.1
52.5°	7219.3	2702.8	1076.9	1018.4	967.1	974.1	965.3	947.6	983.0	1016.7	1020.2
55°	7098.9	2614.3	1018.4	967.1	906.8	935.2	938.7	922.8	945.8	968.8	968.8
57.5°	7107.7	2665.6	961.8	919.2	853.7	890.9	910.4	903.3	903.3	921.0	922.8
60°	7166.2	2740.0	924.6	859.0	800.6	839.5	883.8	876.7	860.8	883.8	883.8
62.5°	6997.9	2640.8	899.8	800.6	743.9	789.9	843.1	839.5	821.8	859.0	862.6
65°	6502.0	2375.2	871.4	728.0	687.2	740.4	786.4	798.8	782.9	832.5	841.3
67.5°	5449.9	1997.9	816.5	658.9	630.5	680.1	724.4	742.1	729.7	788.2	795.3
70°	4063.1	1617.1	729.7	582.7	561.5	605.7	646.5	653.6	655.3	724.4	731.5
72.5°	2591.2	1257.5	614.6	497.7	481.8	515.4	545.5	573.9	586.3	651.8	650.0
75°	1445.3	935.2	494.2	421.5	393.2	419.8	455.2	488.8	524.3	619.9	630.5
77.5°	832.5	657.1	391.4	338.3	304.6	333.0	363.1	410.9	517.2	600.4	589.8
80°	469.4	426.9	295.8	248.0	226.7	248.0	271.0	361.3	407.4	442.8	448.1
82.5°	219.6	239.1	201.9	152.3	152.3	166.5	187.7	279.8	308.2	251.5	219.6
85°	79.7	108.0	99.2	77.9	69.1	67.3	116.9	159.4	99.2	88.6	76.2
87.5°	21.3	30.1	28.3	19.5	10.6	8.9	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)