

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: P635770

Luminaire Tested: GWS-SA3E-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635770
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-SA3E-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22394.3 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 159.2
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

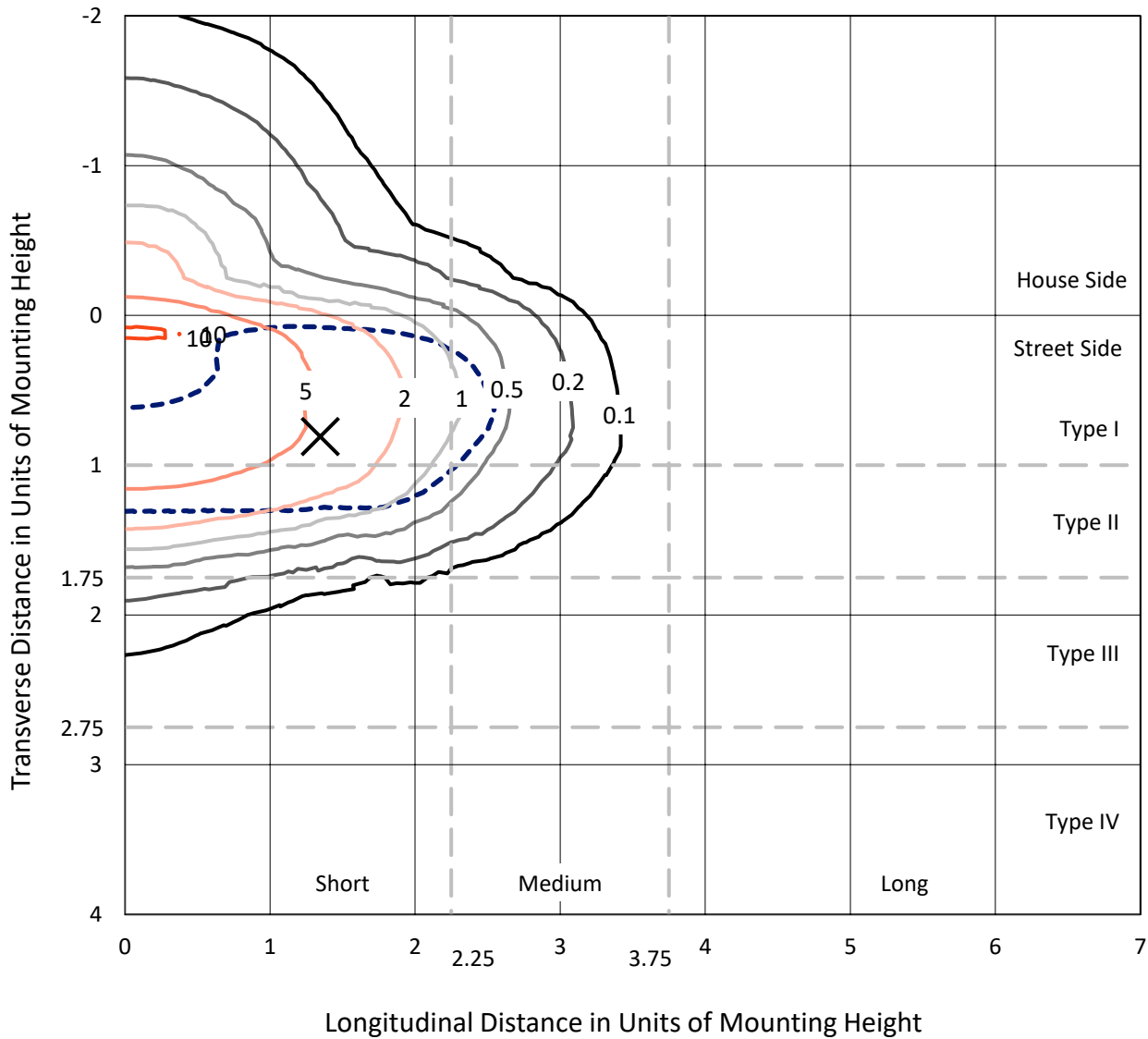


REPORT NUMBER: P635770

CATALOG NUMBER: GWS-SA3E-740-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

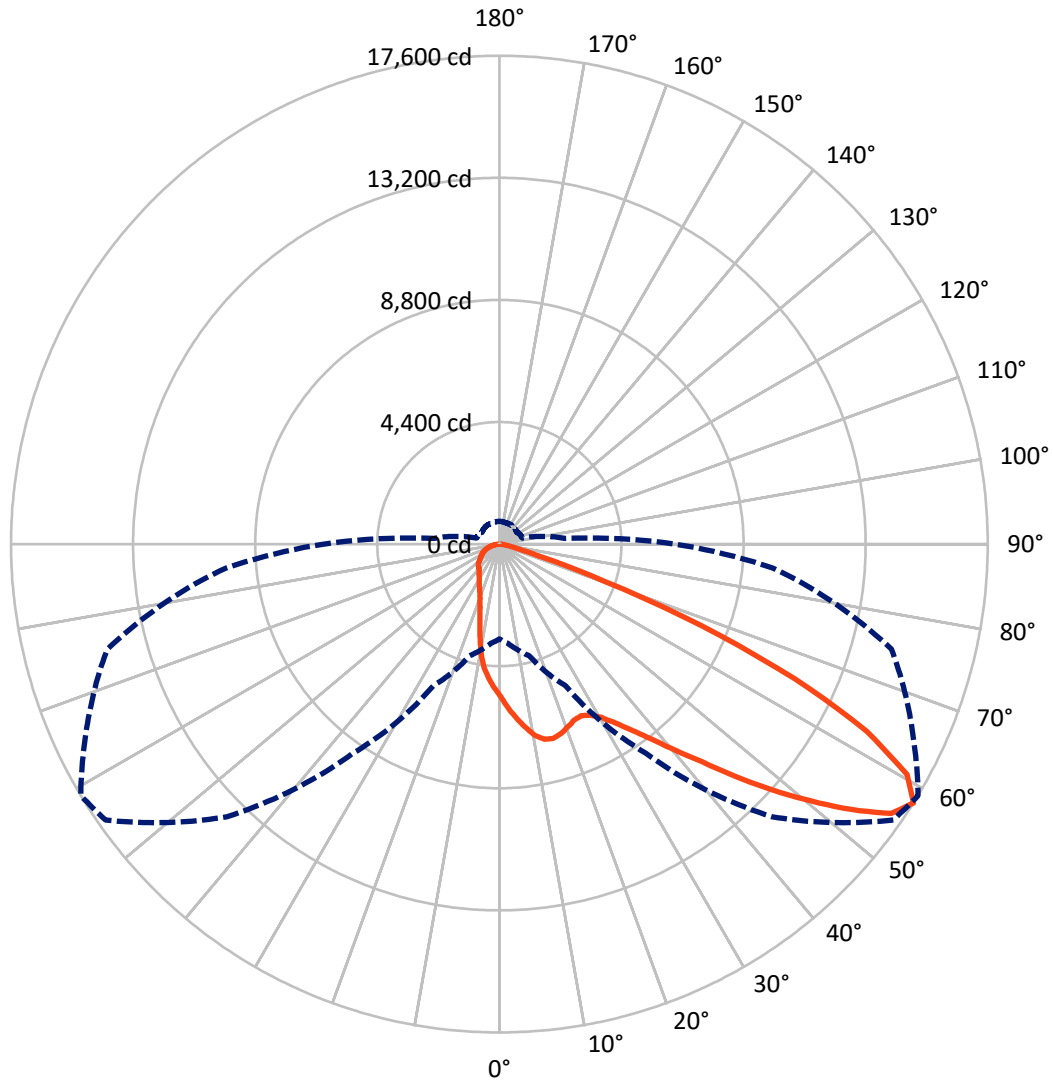
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P635770
CATALOG NUMBER: GWS-SA3E-740-U-AFL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P635770

CATALOG NUMBER: GWS-SA3E-740-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3475.5	0.0	3475.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	18918.8	0.0	18918.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	22394.3	0.0	22394.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.4	2.3
10°-20°	1293.5	5.8
20°-30°	2096.7	9.4
30°-40°	3372.8	15.1
40°-50°	5237.7	23.4
50°-60°	5641.7	25.2
60°-70°	3274.2	14.6
70°-80°	854.8	3.8
80°-90°	112.6	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°	22394.3	100.0
0°-180°	22394.3	100.0

Coefficient of Utilization



REPORT NUMBER: P635770

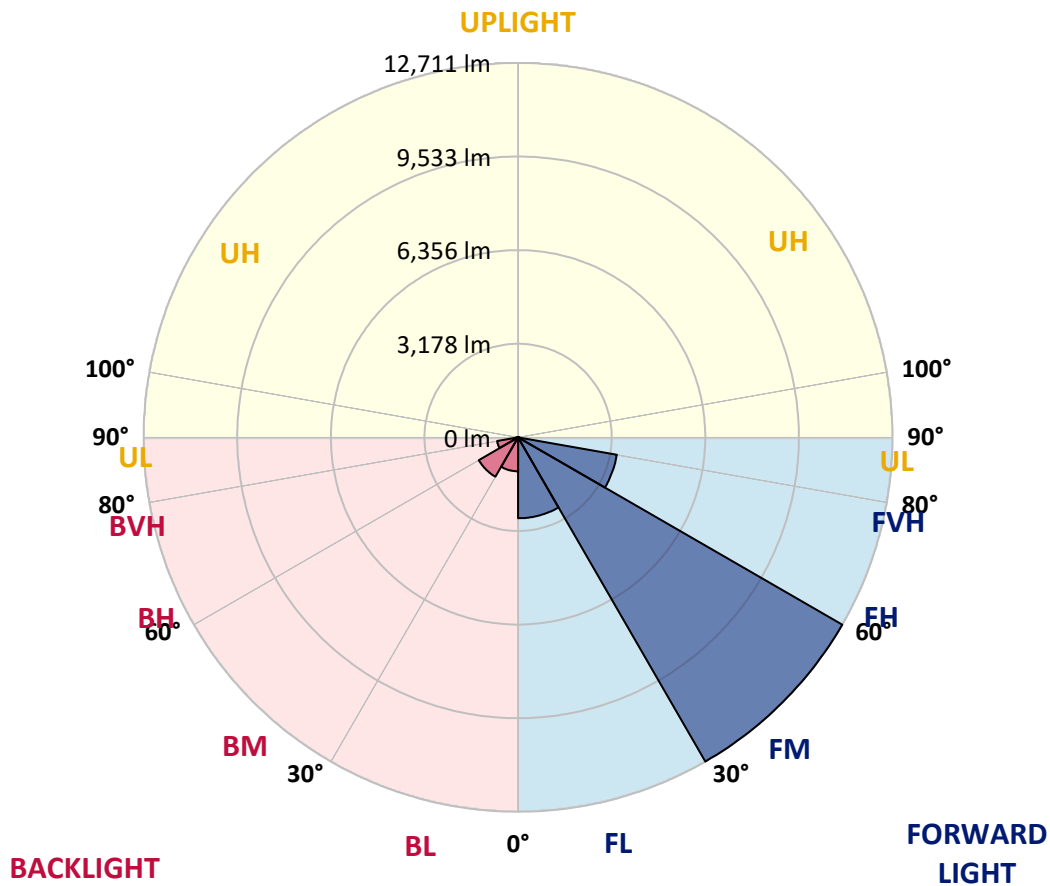
CATALOG NUMBER: GWS-SA3E-740-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2747.6	12.3			
FM (30°-60°)	12711.3	56.8			
FH (60°-80°)	3406.1	15.2			G2/5000
FVH (80°-90°)	53.9	0.2			G1/100
BL (0°-30°)	1153.0	5.1	B3/2500		
BM (30°-60°)	1540.9	6.9	B2/2500		
BH (60°-80°)	722.9	3.2	B2/1000		G2/1000
BVH (80°-90°)	58.7	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: P635770
 CATALOG NUMBER: GWS-SA3E-740-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4
2.5°	6235.2	6183.1	6219.4	6154.8	6128.0	6057.0	5965.6	5904.1	5809.5	5686.5	5579.3
5°	6854.7	6818.5	6826.4	6757.0	6695.5	6577.3	6389.7	6285.6	6124.8	5877.3	5647.1
7.5°	6835.8	6878.4	6902.0	6961.9	6979.3	6968.3	6799.6	6654.5	6478.0	6105.9	5759.1
10°	6128.0	6208.4	6280.9	6485.8	6734.9	7050.2	7089.6	7002.9	6824.8	6397.6	5893.1
12.5°	5357.0	5418.5	5483.2	5729.1	6110.6	6741.2	7168.5	7222.1	7151.1	6686.1	6044.4
15°	4978.7	5007.1	5068.5	5230.9	5535.2	6235.2	7031.3	7266.2	7393.9	6991.9	6214.7
17.5°	4962.9	4975.5	5005.5	5092.2	5303.4	5844.2	6783.8	7177.9	7584.7	7315.1	6413.3
20°	5289.3	5256.1	5237.2	5235.6	5339.7	5713.3	6544.2	7036.0	7674.5	7646.2	6626.1
22.5°	5741.7	5752.8	5711.8	5610.9	5598.3	5806.4	6424.4	6892.6	7701.3	7939.4	6823.2
25°	6383.4	6438.5	6317.1	6124.8	6030.2	6075.9	6498.4	6848.4	7698.2	8183.8	6946.2
27.5°	7132.2	7174.8	7051.8	6799.6	6604.1	6493.7	6719.2	6979.3	7725.0	8395.0	7020.3
30°	7985.1	7999.3	7830.6	7565.8	7280.4	7043.9	7086.5	7248.9	7862.1	8672.5	7107.0
32.5°	9027.2	9087.1	8831.7	8412.4	8013.5	7710.8	7579.9	7684.0	8158.5	9000.4	7241.0
35°	10349.9	10370.4	10045.6	9445.0	8880.6	8461.2	8186.9	8242.1	8609.4	9459.2	7442.8
37.5°	11596.9	11617.4	11272.2	10714.1	9906.9	9333.0	8935.8	8910.5	9186.4	10107.1	7772.3
40°	12388.4	12446.7	12292.2	11942.2	11171.3	10397.2	9858.0	9771.3	9943.2	10900.1	8231.1
42.5°	12814.0	12839.2	12836.1	12881.8	12423.0	11653.7	10898.5	10725.1	10840.2	11756.2	8694.6
45°	12817.2	12880.2	13048.9	13488.8	13509.3	13030.0	12213.4	11942.2	11836.6	12618.5	9178.5
47.5°	12243.3	12311.1	12774.6	13640.1	14278.6	14387.4	13788.3	13244.4	12799.8	13361.1	9575.8
50°	10506.0	10676.2	11559.1	13089.9	14430.0	15475.2	15290.7	14552.9	13655.9	13934.9	9824.9
52.5°	8997.2	8990.9	9534.8	11535.5	13797.8	15954.5	16744.3	15899.3	14502.5	14299.1	9888.0
55°	6588.3	6624.6	7181.1	8822.3	12110.9	15491.0	17543.6	17138.4	15473.6	14493.0	9862.8
57.5°	3416.3	3596.1	4166.8	5629.8	9202.2	13895.5	17330.8	17600.4	16460.5	14630.2	9895.9
60°	1726.3	1691.6	1896.6	2688.0	5331.8	10852.8	16019.1	16878.3	16638.7	14737.4	9916.4
62.5°	1152.4	1143.0	1086.2	1245.5	2178.8	6427.5	13655.9	14860.4	15401.1	14485.1	9654.7
65°	997.9	979.0	875.0	868.7	1057.9	2665.9	10009.4	11682.1	12728.9	13364.2	9028.8
67.5°	898.6	870.2	764.6	712.6	759.9	1171.4	5640.8	7835.3	9399.3	11302.1	7657.2
70°	802.5	788.3	682.6	607.0	602.2	714.2	2077.9	4043.8	5751.2	7710.8	5598.3
72.5°	718.9	693.7	603.8	531.3	495.0	506.1	901.8	1557.6	2976.5	4810.0	3348.5
75°	622.7	603.8	525.0	452.5	408.3	370.5	550.2	720.5	1357.4	2286.0	1581.3
77.5°	480.8	468.2	414.6	359.4	334.2	275.9	334.2	454.0	627.5	963.3	822.9
80°	279.0	286.9	309.0	280.6	245.9	197.1	217.6	261.7	376.8	521.8	466.7
82.5°	140.3	149.8	200.2	162.4	146.6	115.1	129.3	154.5	197.1	288.5	182.9
85°	11.0	11.0	36.3	41.0	50.4	41.0	52.0	63.1	89.9	115.1	61.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	7.9	14.2	26.8	17.3
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: P635770
 CATALOG NUMBER: GWS-SA3E-740-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4	5497.4
2.5°	5506.8	5426.4	5330.2	5251.4	5130.0	5065.4	4983.4	4882.5	4841.5	4822.6	4811.6
5°	5517.8	5376.0	5171.0	4981.8	4772.2	4606.6	4422.2	4229.8	4119.5	4092.7	4073.7
7.5°	5558.8	5360.2	5033.9	4721.7	4332.3	3971.3	3619.7	3271.3	3093.1	3025.4	3019.1
10°	5615.6	5353.9	4895.1	4376.4	3719.0	3148.3	2736.9	2464.1	2349.0	2311.2	2298.6
12.5°	5686.5	5349.2	4712.2	3897.2	3011.2	2472.0	2237.1	2193.0	2208.7	2205.6	2205.6
15°	5776.4	5355.5	4491.5	3354.9	2435.7	2145.7	2150.4	2202.4	2251.3	2259.2	2259.2
17.5°	5874.1	5349.2	4171.5	2810.9	2090.5	2068.4	2140.9	2213.4	2257.6	2263.9	2263.9
20°	5979.8	5319.2	3767.9	2298.6	1939.1	2019.5	2098.4	2155.1	2181.9	2188.2	2188.2
22.5°	6042.8	5234.1	3329.6	1945.4	1843.0	1942.3	1994.3	2052.6	2055.8	2005.3	2003.8
25°	6033.4	5074.8	2829.9	1718.4	1740.5	1827.2	1893.4	1852.4	1802.0	1773.6	1768.9
27.5°	5973.5	4835.2	2320.6	1546.6	1619.1	1716.8	1696.3	1661.7	1649.0	1617.5	1614.4
30°	5897.8	4540.4	1863.5	1412.6	1493.0	1582.8	1551.3	1548.2	1535.5	1500.9	1500.9
32.5°	5825.3	4236.1	1518.2	1313.2	1412.6	1418.9	1463.0	1466.2	1459.9	1400.0	1393.7
35°	5804.8	3931.9	1284.9	1234.4	1333.7	1330.6	1393.7	1392.1	1283.3	1199.7	1198.2
37.5°	5866.3	3622.9	1146.1	1169.8	1225.0	1266.0	1316.4	1225.0	1188.7	1138.3	1135.1
40°	5997.1	3337.5	1075.2	1131.9	1155.6	1215.5	1136.7	1143.0	1133.5	1095.7	1091.0
42.5°	6170.5	3094.7	1035.8	1119.3	1116.2	1131.9	1045.2	1070.5	1084.7	1056.3	1051.5
45°	6337.6	2883.5	1015.3	1072.0	1087.8	996.4	979.0	1002.7	1024.7	1013.7	1009.0
47.5°	6460.6	2700.6	1004.2	1007.4	1051.5	950.6	922.3	933.3	960.1	964.8	963.3
50°	6498.4	2544.5	991.6	953.8	944.3	904.9	882.9	879.7	911.2	933.3	936.5
52.5°	6425.9	2405.8	958.5	906.5	860.8	867.1	859.2	843.4	875.0	904.9	908.1
55°	6318.7	2327.0	906.5	860.8	807.2	832.4	835.6	821.4	841.9	862.4	862.4
57.5°	6326.6	2372.7	856.1	818.2	759.9	793.0	810.3	804.0	804.0	819.8	821.4
60°	6378.6	2438.9	822.9	764.6	712.6	747.3	786.7	780.4	766.2	786.7	786.7
62.5°	6228.9	2350.6	800.9	712.6	662.1	703.1	750.4	747.3	731.5	764.6	767.8
65°	5787.4	2114.1	775.7	648.0	611.7	659.0	700.0	711.0	696.8	741.0	748.9
67.5°	4851.0	1778.3	726.8	586.5	561.2	605.4	644.8	660.6	649.5	701.6	707.9
70°	3616.6	1439.4	649.5	518.7	499.8	539.2	575.4	581.7	583.3	644.8	651.1
72.5°	2306.5	1119.3	547.1	443.0	428.8	458.8	485.6	510.8	521.8	580.2	578.6
75°	1286.4	832.4	439.9	375.2	350.0	373.6	405.2	435.1	466.7	551.8	561.2
77.5°	741.0	584.9	348.4	301.1	271.2	296.4	323.2	365.8	460.3	534.4	525.0
80°	417.8	379.9	263.3	220.7	201.8	220.7	241.2	321.6	362.6	394.1	398.9
82.5°	195.5	212.8	179.7	135.6	135.6	148.2	167.1	249.1	274.3	223.9	195.5
85°	70.9	96.2	88.3	69.4	61.5	59.9	104.1	141.9	88.3	78.8	67.8
87.5°	18.9	26.8	25.2	17.3	9.5	7.9	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)