

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: P636265

Luminaire Tested: GWS-SA3F-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636265
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-SA3F-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: 24898.4 lumens
Efficiency: N/A
Efficacy: 135.9 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

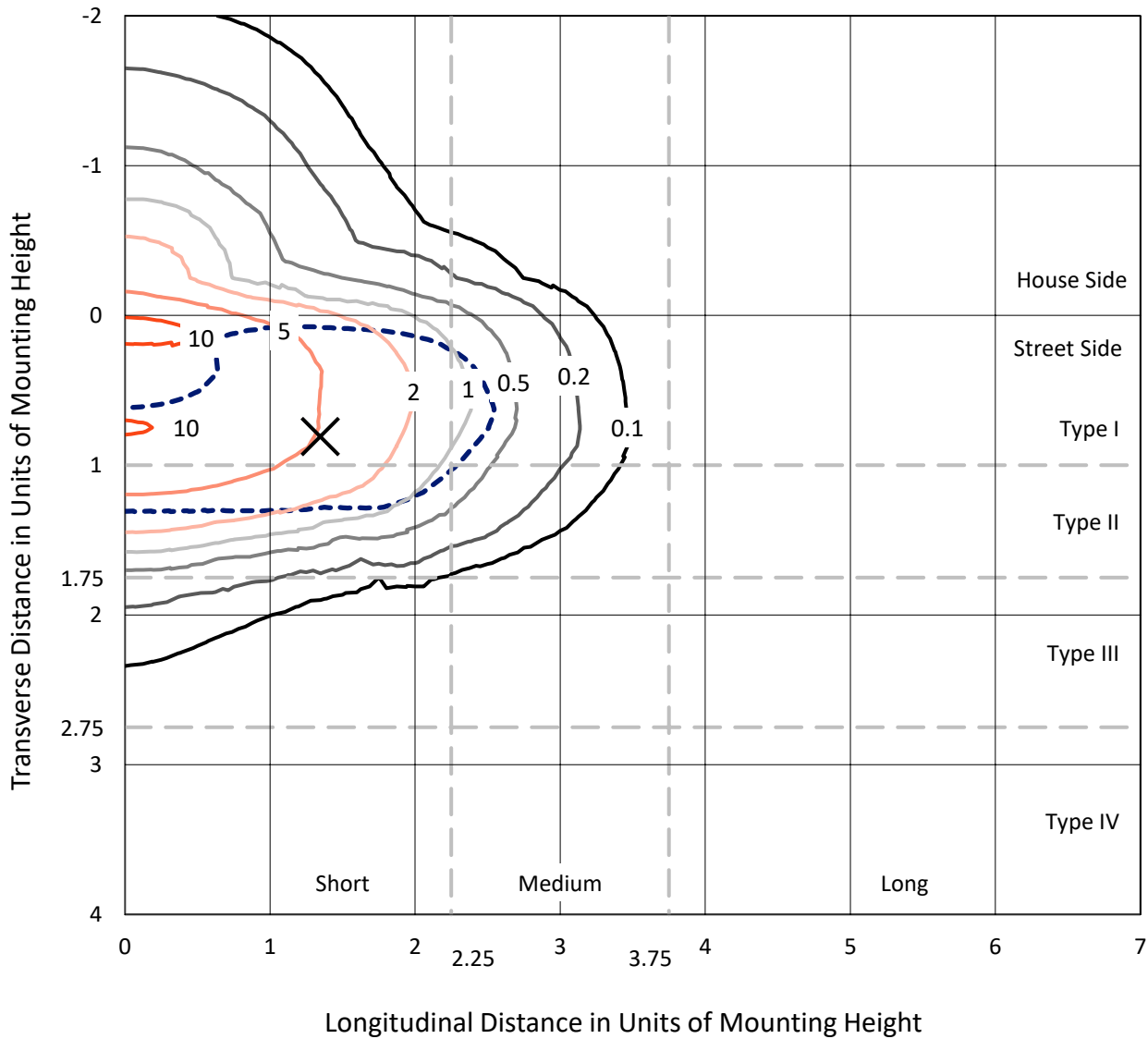
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

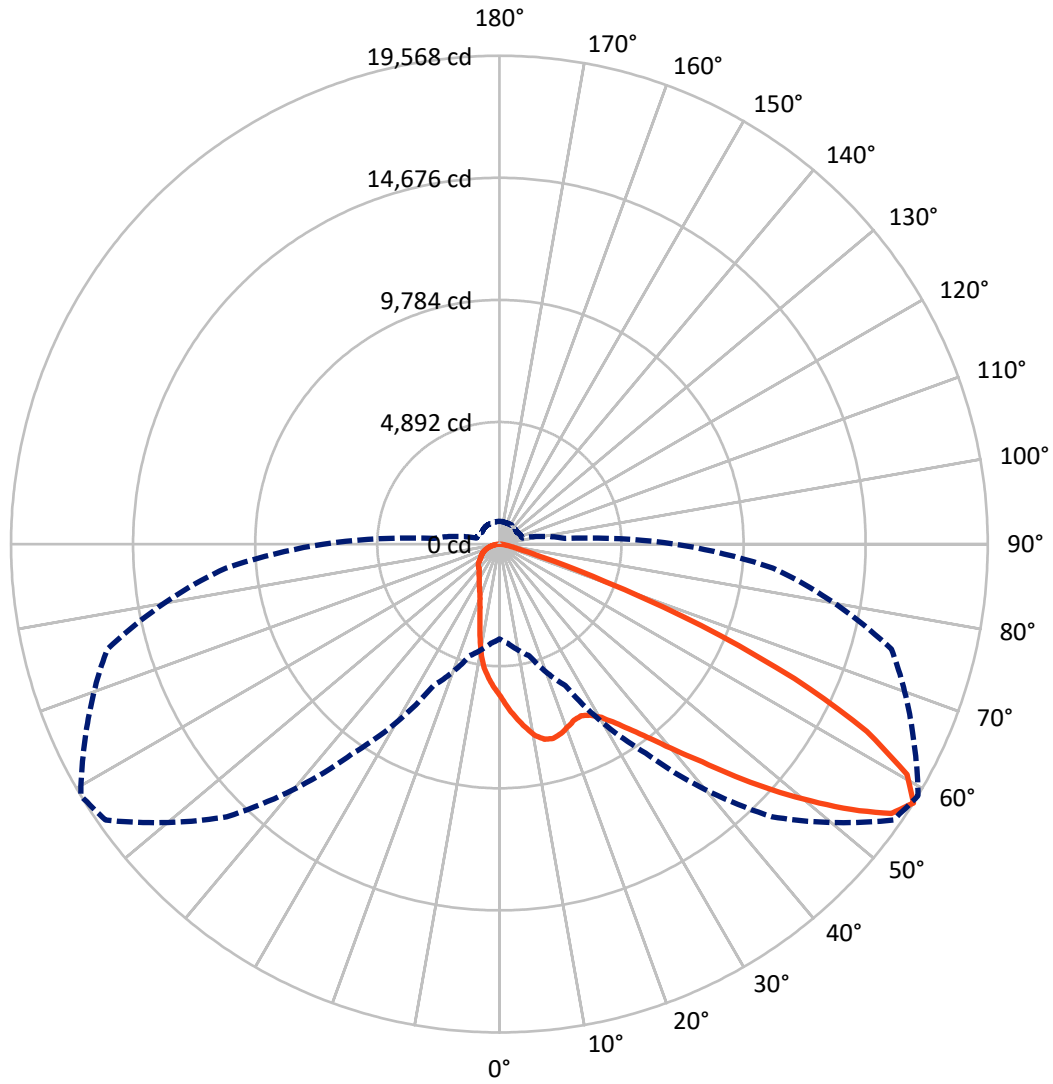
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3864.1	0.0	3864.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	21034.3	0.0	21034.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	24898.4	0.0	24898.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.5	2.3
10°-20°	1438.1	5.8
20°-30°	2331.1	9.4
30°-40°	3750.0	15.1
40°-50°	5823.3	23.4
50°-60°	6272.5	25.2
60°-70°	3640.3	14.6
70°-80°	950.3	3.8
80°-90°	125.2	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°	24898.4	100.0
0°-180°	24898.4	100.0

Coefficient of Utilization



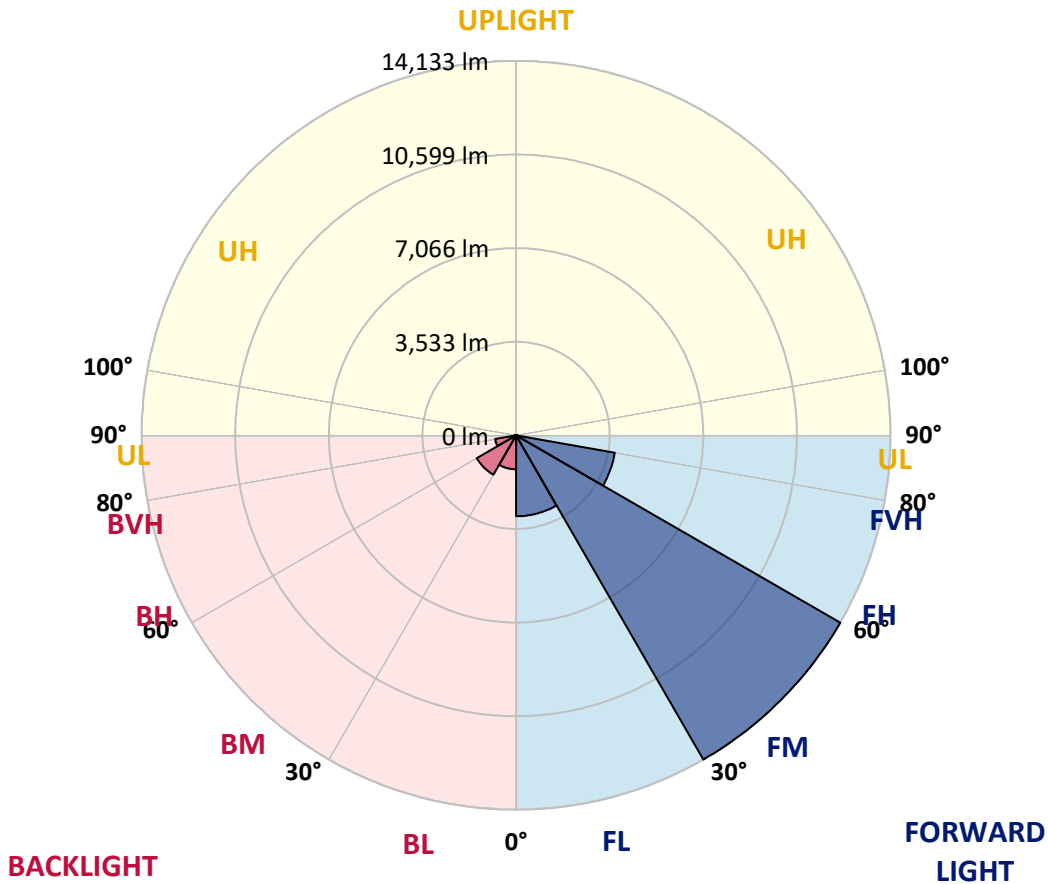
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3054.8	12.3			
FM (30°-60°)	14132.6	56.8			
FH (60°-80°)	3786.9	15.2			G2/5000
FVH (80°-90°)	59.9	0.2			G1/100
BL (0°-30°)	1282.0	5.1	B3/2500		
BM (30°-60°)	1713.2	6.9	B2/2500		
BH (60°-80°)	803.7	3.2	B2/1000		G2/1000
BVH (80°-90°)	65.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1
2.5°	6932.4	6874.5	6914.8	6843.0	6813.2	6734.3	6632.6	6564.3	6459.1	6322.4	6203.2
5°	7621.2	7580.9	7589.7	7512.6	7444.2	7312.7	7104.2	6988.5	6809.7	6534.5	6278.6
7.5°	7600.2	7647.5	7673.8	7740.4	7759.7	7747.4	7559.9	7398.6	7202.3	6788.6	6403.0
10°	6813.2	6902.6	6983.2	7211.1	7488.0	7838.6	7882.4	7786.0	7587.9	7112.9	6552.0
12.5°	5956.1	6024.4	6096.3	6369.7	6793.9	7495.0	7970.0	8029.6	7950.8	7433.7	6720.3
15°	5535.4	5566.9	5635.3	5815.8	6154.1	6932.4	7817.5	8078.7	8220.7	7773.7	6909.6
17.5°	5517.9	5531.9	5565.2	5661.6	5896.5	6497.7	7542.4	7980.6	8432.8	8133.1	7130.4
20°	5880.7	5843.9	5822.8	5821.1	5936.8	6352.2	7275.9	7822.8	8532.7	8501.1	7367.1
22.5°	6383.7	6396.0	6350.4	6238.3	6224.2	6455.6	7142.7	7663.3	8562.5	8827.2	7586.2
25°	7097.1	7158.5	7023.5	6809.7	6704.5	6755.3	7225.1	7614.2	8559.0	9098.9	7722.9
27.5°	7929.7	7977.1	7840.3	7559.9	7342.5	7219.8	7470.5	7759.7	8588.8	9333.7	7805.3
30°	8878.0	8893.8	8706.2	8411.8	8094.5	7831.6	7878.9	8059.4	8741.3	9642.2	7901.7
32.5°	10036.6	10103.2	9819.3	9353.0	8909.5	8573.0	8427.5	8543.2	9070.8	10006.8	8050.7
35°	11507.2	11530.0	11168.9	10501.1	9873.6	9407.3	9102.4	9163.7	9572.1	10516.9	8275.0
37.5°	12893.7	12916.5	12532.6	11912.1	11014.7	10376.7	9934.9	9906.9	10213.6	11237.3	8641.4
40°	13773.6	13838.5	13666.7	13277.6	12420.4	11559.8	10960.3	10863.9	11055.0	12118.9	9151.4
42.5°	14246.9	14274.9	14271.4	14322.2	13812.2	12956.8	12117.2	11924.4	12052.3	13070.7	9666.8
45°	14250.4	14320.5	14508.0	14997.1	15019.9	14487.0	13579.0	13277.6	13160.1	14029.5	10204.9
47.5°	13612.3	13687.7	14203.0	15165.3	15875.2	15996.2	15330.1	14725.4	14231.1	14855.1	10646.6
50°	11680.7	11870.1	12851.6	14553.6	16043.5	17205.6	17000.5	16180.2	15182.9	15493.1	10923.5
52.5°	10003.3	9996.3	10601.0	12825.3	15340.6	17738.5	18616.6	17677.1	16124.1	15898.0	10993.6
55°	7325.0	7365.3	7984.1	9808.7	13465.1	17223.1	19505.3	19054.8	17203.9	16113.6	10965.6
57.5°	3798.3	3998.2	4632.7	6259.3	10231.2	15449.3	19268.7	19568.4	18301.1	16266.1	11002.4
60°	1919.3	1880.8	2108.6	2988.5	5928.0	12066.4	17810.3	18765.6	18499.2	16385.3	11025.2
62.5°	1281.3	1270.8	1207.7	1384.7	2422.4	7146.2	15182.9	16522.0	17123.2	16104.8	10734.2
65°	1109.5	1088.5	972.8	965.8	1176.1	2964.0	11128.6	12988.3	14152.2	14858.6	10038.4
67.5°	999.1	967.6	850.1	792.3	844.9	1302.3	6271.6	8711.5	10450.3	12565.9	8513.4
70°	892.2	876.4	759.0	674.8	669.6	794.0	2310.2	4496.0	6394.3	8573.0	6224.2
72.5°	799.3	771.2	671.3	590.7	550.4	562.7	1002.6	1731.8	3309.3	5347.8	3723.0
75°	692.4	671.3	583.7	503.1	454.0	411.9	611.7	801.0	1509.2	2541.6	1758.1
77.5°	534.6	520.6	461.0	399.6	371.6	306.7	371.6	504.8	697.6	1071.0	915.0
80°	310.2	319.0	343.6	312.0	273.4	219.1	241.9	291.0	418.9	580.2	518.8
82.5°	156.0	166.5	222.6	180.5	163.0	128.0	143.7	171.8	219.1	320.8	203.3
85°	12.3	12.3	40.3	45.6	56.1	45.6	57.8	70.1	99.9	128.0	68.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.8	15.8	29.8	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1	6112.1
2.5°	6122.6	6033.2	5926.3	5838.6	5703.7	5631.8	5540.6	5428.5	5382.9	5361.9	5349.6
5°	6134.8	5977.1	5749.2	5538.9	5305.8	5121.7	4916.6	4702.8	4580.1	4550.3	4529.3
7.5°	6180.4	5959.6	5596.7	5249.7	4816.7	4415.3	4024.5	3637.1	3439.0	3363.6	3356.6
10°	6243.5	5952.6	5442.5	4865.8	4134.9	3500.4	3042.9	2739.6	2611.7	2569.6	2555.6
12.5°	6322.4	5947.3	5239.2	4333.0	3347.9	2748.4	2487.2	2438.2	2455.7	2452.2	2452.2
15°	6422.3	5954.3	4993.8	3730.0	2708.1	2385.6	2390.8	2448.7	2503.0	2511.8	2511.8
17.5°	6531.0	5947.3	4637.9	3125.3	2324.2	2299.7	2380.3	2460.9	2510.0	2517.0	2517.0
20°	6648.4	5914.0	4189.2	2555.6	2156.0	2245.4	2333.0	2396.1	2425.9	2432.9	2432.9
22.5°	6718.5	5819.3	3701.9	2163.0	2049.0	2159.5	2217.3	2282.2	2285.7	2229.6	2227.8
25°	6708.0	5642.3	3146.3	1910.6	1935.1	2031.5	2105.1	2059.6	2003.5	1971.9	1966.7
27.5°	6641.4	5375.9	2580.1	1719.5	1800.1	1908.8	1886.0	1847.5	1833.4	1798.4	1794.9
30°	6557.3	5048.1	2071.8	1570.5	1659.9	1759.8	1724.8	1721.3	1707.2	1668.7	1668.7
32.5°	6476.6	4709.8	1688.0	1460.1	1570.5	1577.5	1626.6	1630.1	1623.1	1556.5	1549.5
35°	6453.9	4371.5	1428.5	1372.5	1482.9	1479.4	1549.5	1547.7	1426.8	1333.9	1332.1
37.5°	6522.2	4028.0	1274.3	1300.6	1361.9	1407.5	1463.6	1361.9	1321.6	1265.5	1262.0
40°	6667.7	3710.7	1195.4	1258.5	1284.8	1351.4	1263.8	1270.8	1260.3	1218.2	1212.9
42.5°	6860.5	3440.8	1151.6	1244.5	1241.0	1258.5	1162.1	1190.2	1205.9	1174.4	1169.1
45°	7046.3	3205.9	1128.8	1191.9	1209.4	1107.8	1088.5	1114.8	1139.3	1127.1	1121.8
47.5°	7183.0	3002.6	1116.5	1120.0	1169.1	1056.9	1025.4	1037.7	1067.5	1072.7	1071.0
50°	7225.1	2829.0	1102.5	1060.5	1049.9	1006.1	981.6	978.1	1013.1	1037.7	1041.2
52.5°	7144.5	2674.8	1065.7	1007.9	957.0	964.0	955.3	937.8	972.8	1006.1	1009.6
55°	7025.3	2587.2	1007.9	957.0	897.4	925.5	929.0	913.2	936.0	958.8	958.8
57.5°	7034.0	2638.0	951.8	909.7	844.9	881.7	900.9	893.9	893.9	911.5	913.2
60°	7091.9	2711.6	915.0	850.1	792.3	830.8	874.7	867.6	851.9	874.7	874.7
62.5°	6925.4	2613.4	890.4	792.3	736.2	781.8	834.3	830.8	813.3	850.1	853.6
65°	6434.6	2350.5	862.4	720.4	680.1	732.7	778.2	790.5	774.7	823.8	832.6
67.5°	5393.4	1977.2	808.0	652.0	624.0	673.1	716.9	734.4	722.2	780.0	787.0
70°	4021.0	1600.3	722.2	576.7	555.6	599.5	639.8	646.8	648.5	716.9	723.9
72.5°	2564.4	1244.5	608.2	492.5	476.8	510.1	539.9	567.9	580.2	645.0	643.3
75°	1430.3	925.5	489.0	417.2	389.1	415.4	450.5	483.8	518.8	613.5	624.0
77.5°	823.8	650.3	387.4	334.8	301.5	329.5	359.3	406.7	511.8	594.2	583.7
80°	464.5	422.4	292.7	245.4	224.4	245.4	268.2	357.6	403.1	438.2	443.5
82.5°	217.3	236.6	199.8	150.7	150.7	164.8	185.8	276.9	305.0	248.9	217.3
85°	78.9	106.9	98.2	77.1	68.4	66.6	115.7	157.8	98.2	87.6	75.4
87.5°	21.0	29.8	28.0	19.3	10.5	8.8	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)