

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: P642480

Luminaire Tested: GWS-SA6D-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642480
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-SA6D-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26869.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

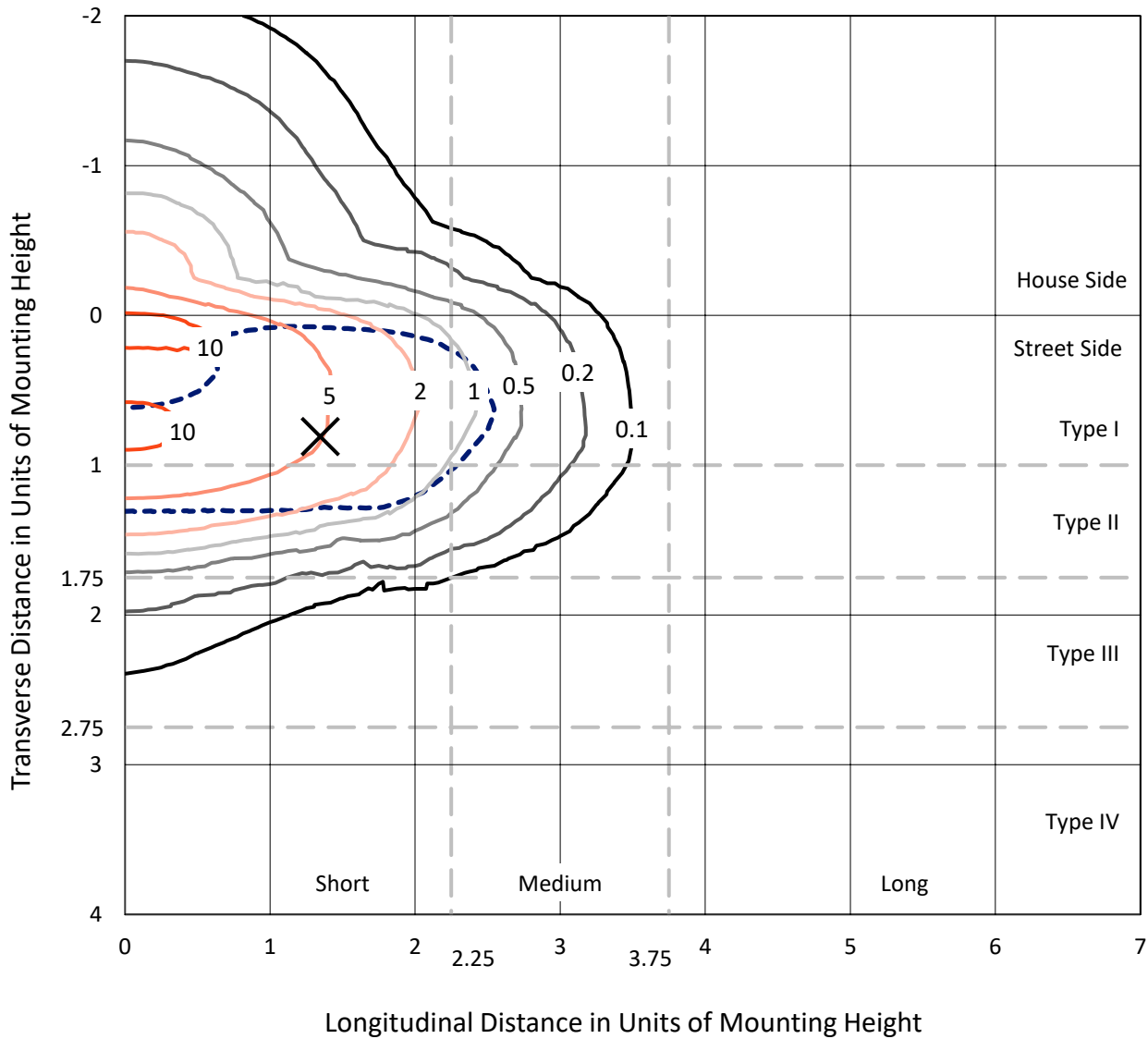
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

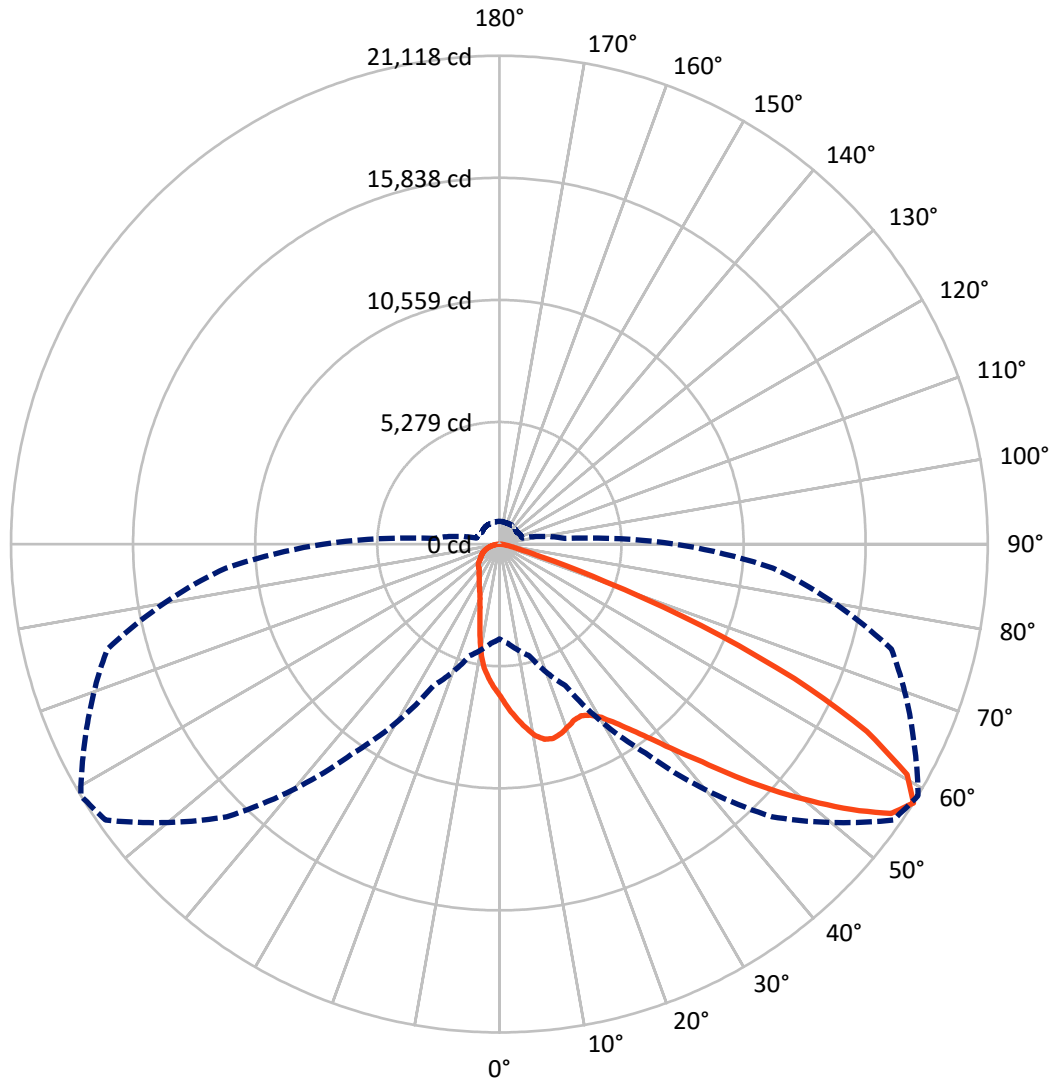
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	4170.0	0.0	4170.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	22699.4	0.0	22699.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	26869.4	0.0	26869.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.4	2.3
10°-20°	1551.9	5.8
20°-30°	2515.7	9.4
30°-40°	4046.8	15.1
40°-50°	6284.3	23.4
50°-60°	6769.1	25.2
60°-70°	3928.5	14.6
70°-80°	1025.6	3.8
80°-90°	135.1	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°	26869.4	100.0
0°-180°	26869.4	100.0

Coefficient of Utilization



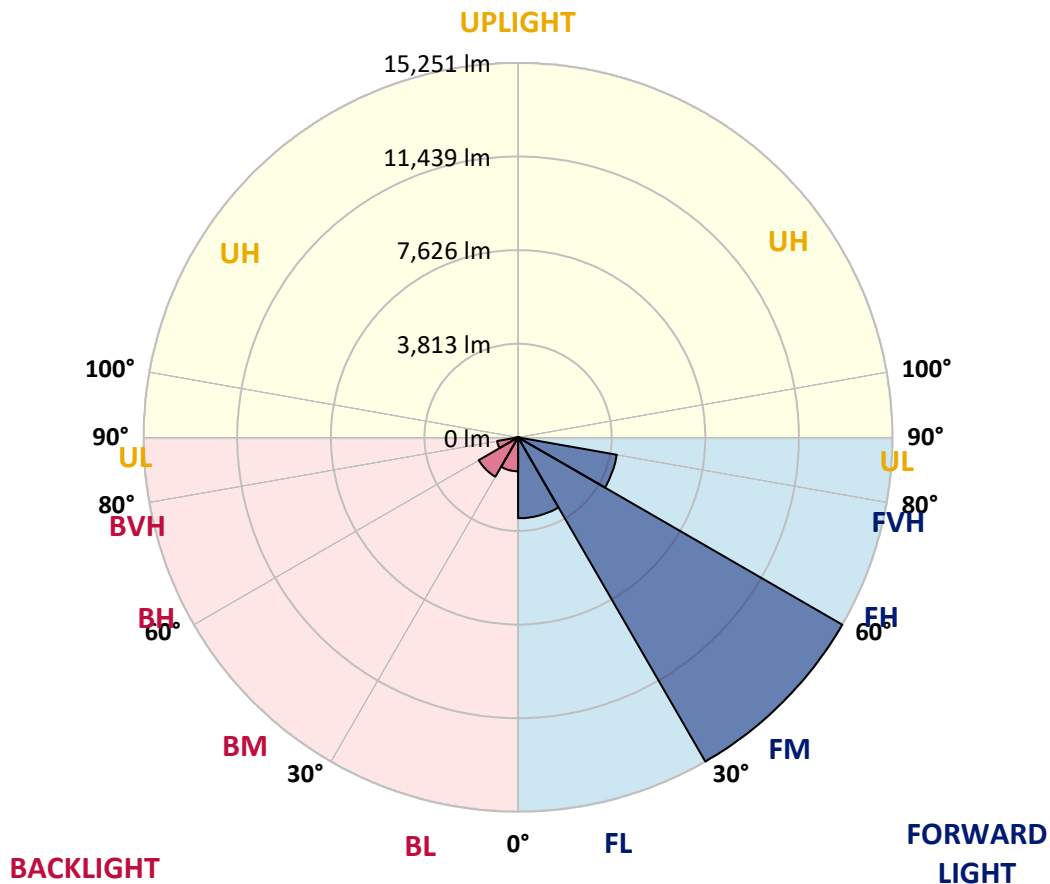
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3296.6	12.3			
FM (30°-60°)	15251.4	56.8			
FH (60°-80°)	4086.7	15.2			G2/5000
FVH (80°-90°)	64.7	0.2			G1/100
BL (0°-30°)	1383.4	5.1	B3/2500		
BM (30°-60°)	1848.8	6.9	B2/2500		
BH (60°-80°)	867.3	3.2	B2/1000		G2/1000
BVH (80°-90°)	70.4	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°	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9
2.5°	7481.2	7418.7	7462.2	7384.7	7352.5	7267.4	7157.7	7083.9	6970.4	6822.9	6694.3
5°	8224.5	8181.0	8190.5	8107.3	8033.5	7891.6	7666.5	7541.7	7348.7	7051.8	6775.6
7.5°	8201.8	8252.9	8281.3	8353.2	8374.0	8360.7	8158.3	7984.3	7772.5	7326.0	6909.9
10°	7352.5	7449.0	7536.0	7781.9	8080.8	8459.1	8506.4	8402.3	8188.6	7676.0	7070.7
12.5°	6427.6	6501.3	6578.9	6874.0	7331.7	8088.3	8601.0	8665.3	8580.2	8022.1	7252.3
15°	5973.6	6007.6	6081.4	6276.2	6641.3	7481.2	8436.4	8718.2	8871.5	8389.1	7456.6
17.5°	5954.7	5969.8	6005.7	6109.8	6363.2	7012.0	8139.4	8612.3	9100.3	8776.9	7694.9
20°	6346.2	6306.5	6283.8	6281.9	6406.7	6855.0	7851.9	8442.1	9208.2	9174.1	7950.3
22.5°	6889.1	6902.3	6853.2	6732.1	6717.0	6966.6	7708.1	8269.9	9240.3	9525.9	8186.7
25°	7659.0	7725.2	7579.5	7348.7	7235.3	7290.1	7797.0	8217.0	9236.5	9819.1	8334.3
27.5°	8557.5	8608.5	8461.0	8158.3	7923.8	7791.4	8061.9	8374.0	9268.7	10072.6	8423.2
30°	9580.8	9597.8	9395.4	9077.6	8735.3	8451.5	8502.6	8697.4	9433.3	10405.5	8527.2
32.5°	10831.1	10903.0	10596.6	10093.4	9614.8	9251.7	9094.7	9219.5	9788.9	10799.0	8688.0
35°	12418.1	12442.7	12053.1	11332.4	10655.2	10152.0	9822.9	9889.1	10329.9	11349.4	8930.1
37.5°	13914.4	13939.0	13524.7	12855.1	11886.6	11198.1	10721.4	10691.1	11022.2	12126.8	9325.4
40°	14863.9	14933.9	14748.6	14328.6	13403.7	12474.9	11828.0	11723.9	11930.1	13078.3	9875.9
42.5°	15374.7	15404.9	15401.2	15456.0	14905.6	13982.5	13076.4	12868.3	13006.4	14105.4	10432.0
45°	15378.5	15454.1	15656.5	16184.3	16208.9	15633.8	14654.0	14328.6	14201.9	15140.1	11012.7
47.5°	14689.9	14771.3	15327.4	16365.9	17131.9	17262.5	16543.7	15891.1	15357.6	16031.0	11489.4
50°	12605.4	12809.7	13869.0	15705.7	17313.5	18567.6	18346.3	17461.1	16384.8	16719.6	11788.3
52.5°	10795.2	10787.6	11440.2	13840.6	16555.0	19142.7	20090.4	19076.5	17400.5	17156.5	11863.9
55°	7904.9	7948.4	8616.1	10585.2	14531.0	18586.6	21049.4	20563.2	18565.7	17389.2	11833.7
57.5°	4099.0	4314.7	4999.4	6754.8	11041.1	16672.3	20794.0	21117.5	19749.9	17553.8	11873.4
60°	2071.3	2029.7	2275.6	3225.1	6397.3	13021.6	19220.2	20251.1	19963.6	17682.4	11898.0
62.5°	1382.7	1371.4	1303.3	1494.3	2614.1	7711.9	16384.8	17829.9	18478.7	17379.7	11584.0
65°	1197.4	1174.7	1049.8	1042.3	1269.2	3198.6	12009.6	14016.5	15272.5	16034.8	10833.0
67.5°	1078.2	1044.1	917.4	855.0	911.7	1405.4	6768.0	9401.1	11277.5	13560.7	9187.3
70°	962.8	945.8	819.0	728.3	722.6	856.9	2493.1	4851.9	6900.4	9251.7	6717.0
72.5°	862.6	832.3	724.5	637.5	594.0	607.2	1082.0	1868.9	3571.3	5771.2	4017.7
75°	747.2	724.5	629.9	542.9	489.9	444.5	660.2	864.4	1628.6	2742.8	1897.2
77.5°	576.9	561.8	497.5	431.3	401.0	331.0	401.0	544.8	752.8	1155.7	987.4
80°	334.8	344.3	370.7	336.7	295.1	236.4	261.0	314.0	452.1	626.1	559.9
82.5°	168.3	179.7	240.2	194.8	175.9	138.1	155.1	185.4	236.4	346.2	219.4
85°	13.2	13.2	43.5	49.2	60.5	49.2	62.4	75.7	107.8	138.1	73.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	9.5	17.0	32.2	20.8
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°	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9	6595.9
2.5°	6607.2	6510.8	6395.4	6300.8	6155.2	6077.6	5979.2	5858.2	5809.0	5786.3	5773.1
5°	6620.5	6450.2	6204.3	5977.4	5725.8	5527.2	5305.9	5075.1	4942.7	4910.5	4887.8
7.5°	6669.7	6431.3	6039.8	5665.2	5198.0	4764.9	4343.0	3925.0	3711.3	3629.9	3622.4
10°	6737.8	6423.8	5873.3	5251.0	4462.2	3777.5	3283.8	2956.5	2818.4	2773.0	2757.9
12.5°	6822.9	6418.1	5653.9	4676.0	3612.9	2966.0	2684.1	2631.2	2650.1	2646.3	2646.3
15°	6930.7	6425.7	5389.1	4025.3	2922.5	2574.4	2580.1	2642.5	2701.2	2710.6	2710.6
17.5°	7048.0	6418.1	5005.1	3372.7	2508.2	2481.7	2568.8	2655.8	2708.7	2716.3	2716.3
20°	7174.7	6382.2	4520.8	2757.9	2326.6	2423.1	2517.7	2585.8	2617.9	2625.5	2625.5
22.5°	7250.4	6280.0	3995.0	2334.2	2211.2	2330.4	2392.8	2462.8	2466.6	2406.1	2404.2
25°	7239.0	6089.0	3395.4	2061.8	2088.3	2192.3	2271.8	2222.6	2162.1	2128.0	2122.3
27.5°	7167.2	5801.4	2784.4	1855.6	1942.6	2059.9	2035.3	1993.7	1978.6	1940.7	1937.0
30°	7076.4	5447.7	2235.8	1694.8	1791.3	1899.1	1861.3	1857.5	1842.4	1800.8	1800.8
32.5°	6989.3	5082.6	1821.6	1575.7	1694.8	1702.4	1755.4	1759.2	1751.6	1679.7	1672.1
35°	6964.8	4717.6	1541.6	1481.1	1600.3	1596.5	1672.1	1670.3	1539.7	1439.5	1437.6
37.5°	7038.5	4346.8	1375.2	1403.5	1469.7	1518.9	1579.5	1469.7	1426.2	1365.7	1361.9
40°	7195.5	4004.5	1290.0	1358.1	1386.5	1458.4	1363.8	1371.4	1360.0	1314.6	1309.0
42.5°	7403.6	3713.1	1242.8	1343.0	1339.2	1358.1	1254.1	1284.4	1301.4	1267.4	1261.7
45°	7604.1	3459.7	1218.2	1286.3	1305.2	1195.5	1174.7	1203.0	1229.5	1216.3	1210.6
47.5°	7751.6	3240.3	1204.9	1208.7	1261.7	1140.6	1106.6	1119.8	1152.0	1157.6	1155.7
50°	7797.0	3053.0	1189.8	1144.4	1133.0	1085.8	1059.3	1055.5	1093.3	1119.8	1123.6
52.5°	7710.0	2886.5	1150.1	1087.7	1032.8	1040.4	1030.9	1012.0	1049.8	1085.8	1089.5
55°	7581.4	2792.0	1087.7	1032.8	968.5	998.7	1002.5	985.5	1010.1	1034.7	1034.7
57.5°	7590.9	2846.8	1027.1	981.7	911.7	951.5	972.3	964.7	964.7	983.6	985.5
60°	7653.3	2926.3	987.4	917.4	855.0	896.6	943.9	936.3	919.3	943.9	943.9
62.5°	7473.6	2820.3	960.9	855.0	794.5	843.6	900.4	896.6	877.7	917.4	921.2
65°	6943.9	2536.6	930.7	777.4	733.9	790.7	839.9	853.1	836.1	889.0	898.5
67.5°	5820.4	2133.7	872.0	703.7	673.4	726.4	773.7	792.6	779.3	841.7	849.3
70°	4339.3	1727.0	779.3	622.3	599.6	646.9	690.4	698.0	699.9	773.7	781.2
72.5°	2767.4	1343.0	656.4	531.5	514.5	550.4	582.6	612.9	626.1	696.1	694.2
75°	1543.5	998.7	527.7	450.2	419.9	448.3	486.1	522.1	559.9	662.0	673.4
77.5°	889.0	701.8	418.0	361.3	325.3	355.6	387.8	438.8	552.3	641.2	629.9
80°	501.3	455.9	315.9	264.8	242.1	264.8	289.4	385.9	435.1	472.9	478.6
82.5°	234.6	255.4	215.6	162.7	162.7	177.8	200.5	298.9	329.1	268.6	234.6
85°	85.1	115.4	105.9	83.2	73.8	71.9	124.8	170.2	105.9	94.6	81.3
87.5°	22.7	32.2	30.3	20.8	11.3	9.5	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)