

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: P636043

Luminaire Tested: GWS-SA3F-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636043
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-SA3F-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16338.9 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

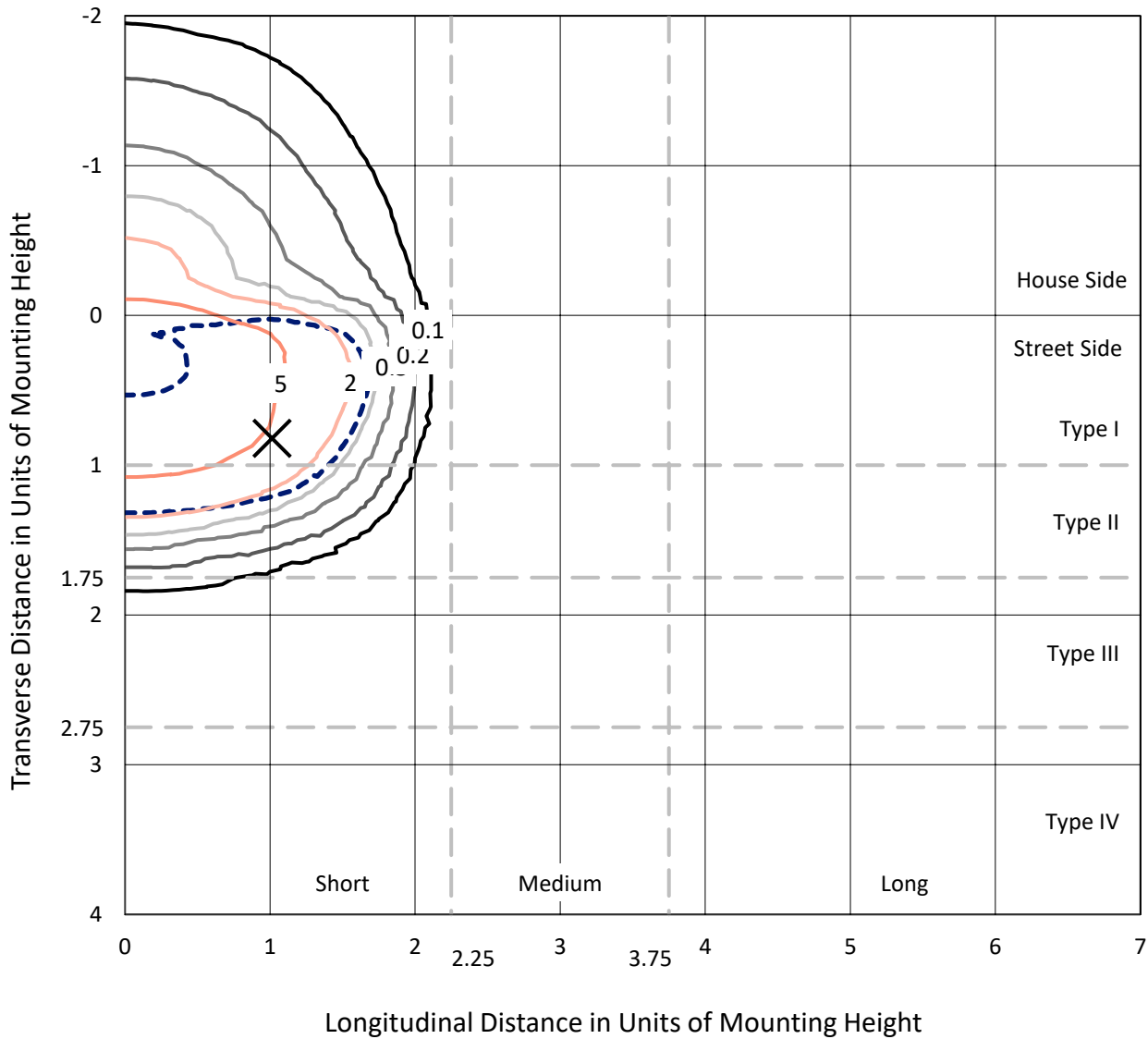
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

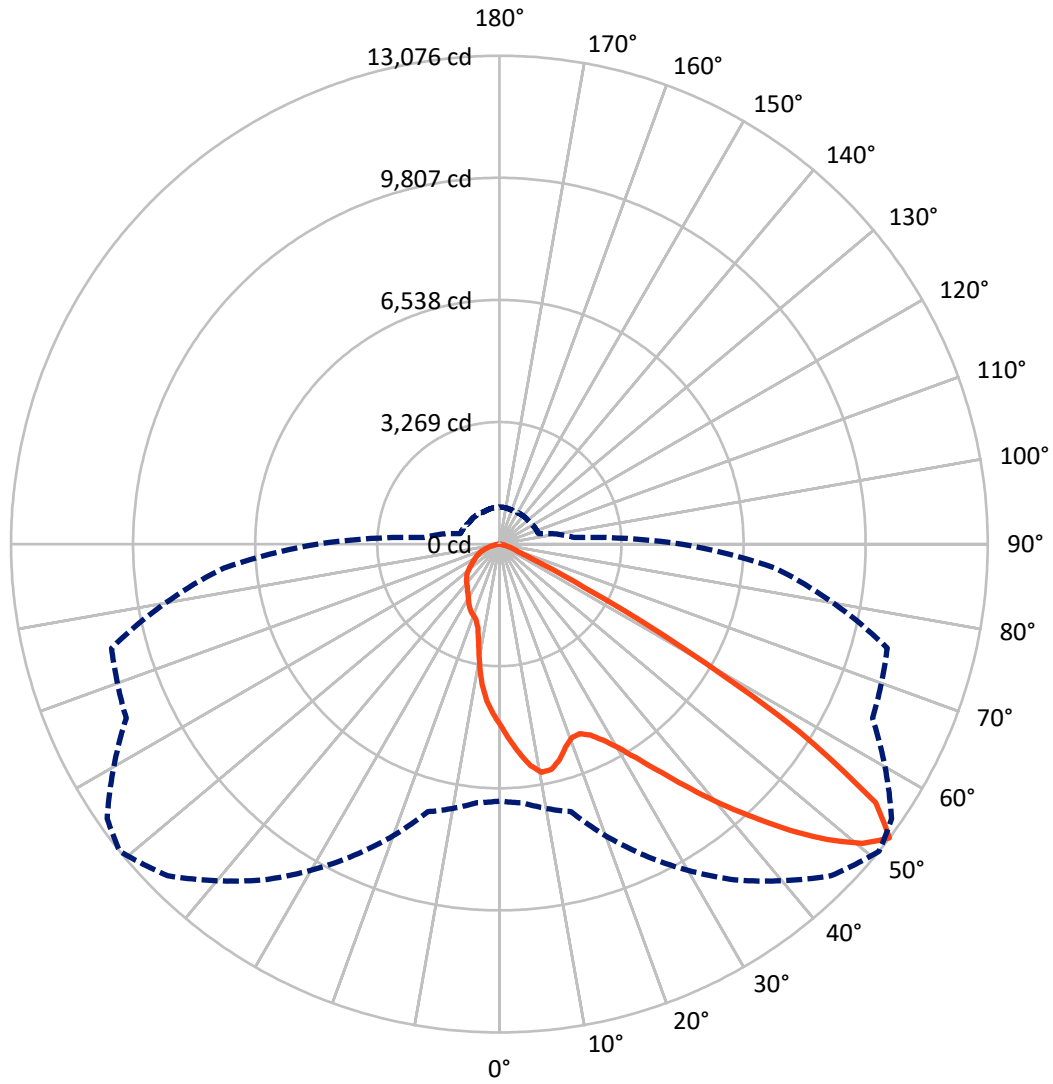
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3183.5	0.0	3183.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13155.4	0.0	13155.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	16338.9	0.0	16338.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	2.8
10°-20°	1179.6	7.2
20°-30°	1917.9	11.7
30°-40°	3039.4	18.6
40°-50°	4584.1	28.1
50°-60°	3965.6	24.3
60°-70°	899.0	5.5
70°-80°	265.1	1.6
80°-90°	34.1	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°	16338.9	100.0
0°-180°	16338.9	100.0

Coefficient of Utilization



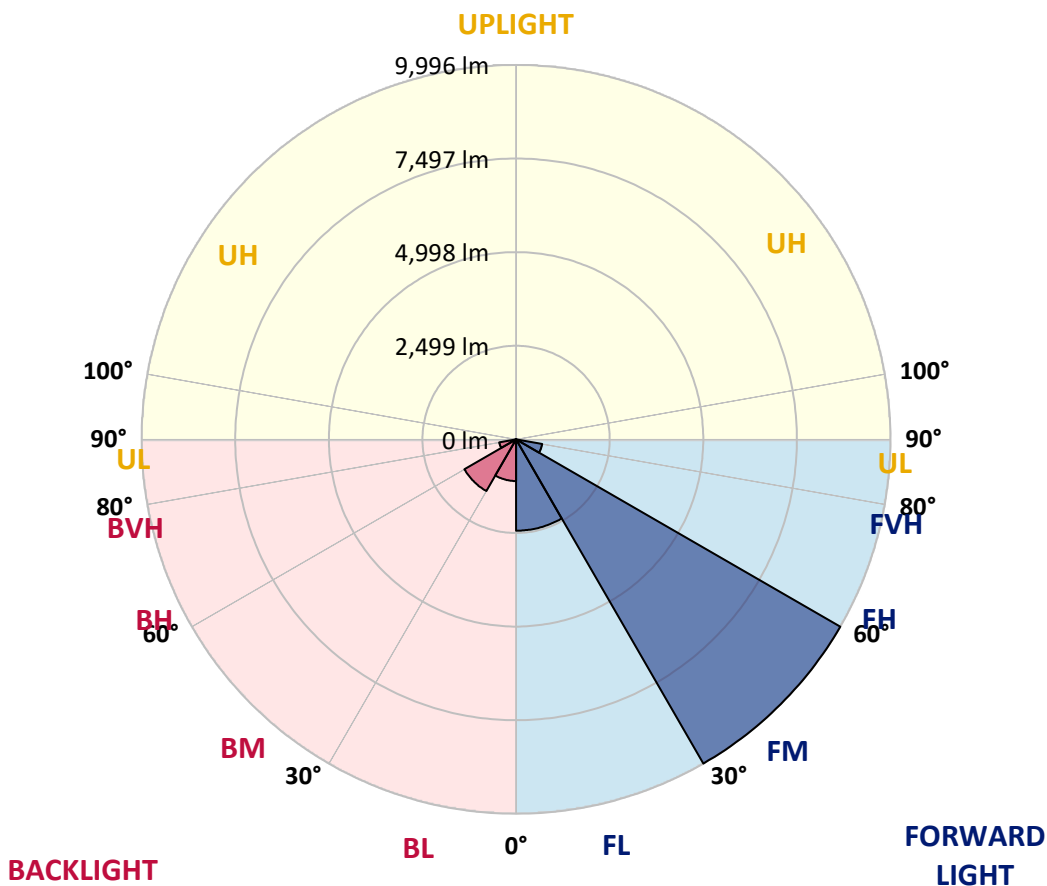
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2438.6	14.9			
FM (30°-60°)	9996.4	61.2			
FH (60°-80°)	707.5	4.3			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1112.8	6.8	B3/2500		
BM (30°-60°)	1592.8	9.7	B2/2500		
BH (60°-80°)	456.6	2.8	B1/500		G1/500
BVH (80°-90°)	21.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9
2.5°	5421.4	5452.4	5404.6	5386.5	5356.8	5305.2	5245.8	5229.0	5101.2	5017.3	4923.0
5°	5966.2	5983.0	5944.3	5905.5	5831.9	5740.3	5625.4	5600.8	5368.4	5176.1	4975.9
7.5°	6087.6	6081.1	6114.7	6136.6	6127.6	6091.5	5989.5	5941.7	5664.1	5359.4	5063.7
10°	5607.3	5571.1	5695.1	5842.3	6019.2	6223.2	6211.5	6207.7	5966.2	5606.0	5176.1
12.5°	4970.8	4952.7	5053.4	5238.0	5572.4	6024.3	6193.5	6325.2	6238.6	5841.0	5301.3
15°	4606.7	4600.2	4668.7	4801.6	5067.6	5638.3	5999.8	6260.6	6472.3	6092.8	5434.3
17.5°	4540.8	4544.7	4568.0	4644.1	4835.2	5305.2	5723.5	6087.6	6654.4	6369.0	5600.8
20°	4733.2	4759.0	4719.0	4730.6	4833.9	5185.1	5535.0	5913.3	6770.6	6646.6	5780.3
22.5°	5160.6	5151.5	5063.7	5012.1	5013.4	5258.7	5514.3	5831.9	6846.8	6916.5	5943.0
25°	5644.7	5634.4	5529.8	5414.9	5342.6	5458.8	5662.8	5918.5	6915.2	7163.1	6073.4
27.5°	6216.7	6184.4	6068.2	5921.0	5760.9	5811.3	5949.4	6152.1	7021.1	7405.8	6159.9
30°	6770.6	6808.0	6641.5	6467.2	6298.0	6267.1	6347.1	6530.4	7236.7	7689.9	6263.2
32.5°	7505.2	7492.3	7307.7	7080.5	6839.0	6815.8	6879.0	7046.9	7624.0	8082.4	6420.7
35°	8394.8	8397.4	8135.3	7828.0	7484.6	7422.6	7528.5	7691.1	8201.1	8614.3	6669.9
37.5°	9319.2	9315.4	9086.8	8738.2	8269.6	8181.8	8303.1	8424.5	8922.9	9338.6	7057.2
40°	9967.4	9993.2	9886.0	9702.7	9258.6	9044.2	9151.4	9235.3	9707.9	10190.7	7567.2
42.5°	10335.3	10374.1	10397.3	10507.1	10273.4	10044.8	10006.1	10050.0	10408.9	10982.2	8046.2
45°	10414.1	10465.7	10634.9	11041.6	11132.0	11067.4	10940.9	10835.0	10931.8	11543.8	8359.9
47.5°	10066.8	10157.2	10518.7	11230.1	11758.1	11960.9	11820.1	11658.7	11234.0	11688.4	8327.7
50°	8690.5	8796.3	9611.0	10845.3	11847.2	12585.7	12598.7	12359.8	11197.8	11271.4	7922.3
52.5°	6880.3	6952.6	7418.7	9194.0	10973.2	12559.9	13076.4	12820.7	11023.5	10749.8	7414.8
55°	4112.2	4228.4	4663.5	6065.6	8548.4	11132.0	12232.0	12355.9	10938.3	10312.1	7068.8
57.5°	1387.9	1444.8	1860.5	2679.1	5037.9	8150.8	9450.9	9954.5	9929.9	9643.3	6393.6
60°	661.0	674.0	757.9	1016.1	2016.7	4259.4	5594.4	6175.4	6704.7	6757.7	3977.9
62.5°	503.5	511.3	553.9	609.4	810.8	1794.6	2564.1	3008.3	3213.6	2757.8	1448.6
65°	420.9	427.4	459.6	494.5	551.3	777.2	983.8	1134.9	1022.6	796.6	690.7
67.5°	351.2	356.3	380.9	418.3	457.1	520.3	546.1	561.6	588.7	661.0	635.2
70°	275.0	280.2	306.0	338.3	375.7	391.2	415.7	431.2	485.5	578.4	575.8
72.5°	211.7	218.2	232.4	253.1	284.0	299.5	326.7	344.7	375.7	450.6	481.6
75°	154.9	158.8	171.7	178.2	182.0	178.2	205.3	225.9	267.3	295.7	303.4
77.5°	63.3	71.0	68.4	68.4	81.3	98.1	112.3	125.2	153.6	170.4	171.7
80°	25.8	28.4	33.6	37.4	45.2	58.1	67.1	72.3	85.2	95.5	103.3
82.5°	15.5	16.8	19.4	20.7	25.8	33.6	38.7	42.6	52.9	63.3	67.1
85°	7.7	7.7	9.0	10.3	12.9	15.5	18.1	20.7	27.1	33.6	37.4
87.5°	1.3	1.3	1.3	2.6	3.9	5.2	6.5	7.7	9.0	10.3	12.9
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°	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9	4864.9
2.5°	4867.5	4797.8	4716.4	4651.9	4577.0	4521.5	4442.7	4393.7	4347.2	4308.4	4280.0
5°	4872.7	4755.2	4586.0	4436.3	4281.3	4134.1	3983.1	3860.4	3750.7	3659.0	3651.3
7.5°	4902.3	4733.2	4468.5	4206.4	3904.3	3612.5	3320.7	3083.2	2902.4	2808.2	2788.8
10°	4952.7	4730.6	4348.5	3930.1	3415.0	2945.0	2599.0	2418.3	2313.7	2276.2	2263.3
12.5°	5005.6	4724.2	4194.8	3540.2	2825.0	2413.1	2223.3	2201.3	2220.7	2223.3	2222.0
15°	5070.2	4720.3	4001.2	3083.2	2393.7	2166.5	2179.4	2225.9	2271.1	2281.4	2281.4
17.5°	5149.0	4711.3	3737.8	2636.4	2123.9	2118.7	2187.1	2249.1	2291.7	2299.5	2299.5
20°	5231.6	4688.0	3413.7	2272.4	2014.1	2089.0	2162.6	2210.4	2240.1	2250.4	2251.7
22.5°	5288.4	4626.1	3040.6	2002.5	1945.7	2032.2	2085.1	2134.2	2134.2	2108.4	2100.6
25°	5300.0	4493.1	2636.4	1817.9	1864.4	1944.4	1998.6	1970.2	1917.3	1896.6	1895.4
27.5°	5257.4	4299.4	2237.5	1686.2	1766.2	1846.3	1837.3	1795.9	1772.7	1752.0	1759.8
30°	5205.8	4067.0	1891.5	1577.7	1652.6	1731.4	1700.4	1686.2	1669.4	1646.2	1651.3
32.5°	5170.9	3807.5	1625.5	1493.8	1576.4	1589.4	1611.3	1610.0	1594.5	1550.6	1548.0
35°	5181.2	3545.4	1447.3	1425.4	1513.2	1508.0	1549.3	1541.6	1434.4	1373.7	1369.9
37.5°	5263.9	3293.6	1342.8	1371.2	1412.5	1444.8	1480.9	1387.9	1350.5	1311.8	1314.4
40°	5421.4	3059.9	1285.9	1341.5	1351.8	1399.6	1315.6	1314.4	1297.6	1262.7	1261.4
42.5°	5599.5	2862.4	1247.2	1327.3	1313.1	1322.1	1233.0	1243.3	1242.0	1220.1	1213.6
45°	5708.0	2680.3	1216.2	1274.3	1278.2	1187.8	1160.7	1172.3	1178.8	1167.2	1165.9
47.5°	5595.7	2471.2	1183.9	1193.0	1226.6	1127.1	1093.6	1094.9	1106.5	1107.8	1102.6
50°	5280.6	2237.5	1145.2	1123.3	1101.3	1063.9	1032.9	1026.4	1038.1	1049.7	1053.5
52.5°	4873.9	2014.1	1080.7	1047.1	995.4	995.4	981.2	960.6	976.1	991.6	996.7
55°	4575.7	1848.9	989.0	951.5	894.7	914.1	911.5	893.4	914.1	925.7	929.6
57.5°	3965.0	1486.1	870.2	858.6	810.8	834.1	839.2	816.0	805.7	808.2	812.1
60°	2353.7	959.3	785.0	783.7	741.1	768.2	783.7	760.5	729.5	733.4	738.5
62.5°	1056.1	733.4	677.8	672.7	671.4	706.2	723.0	701.1	657.2	661.0	666.2
65°	664.9	633.9	588.7	588.7	609.4	639.1	652.0	633.9	583.6	577.1	582.3
67.5°	617.2	590.0	543.6	534.5	544.8	569.4	570.7	535.8	506.1	501.0	501.0
70°	553.9	533.2	488.0	470.0	466.1	464.8	460.9	451.9	432.5	427.4	429.9
72.5°	458.3	444.1	415.7	396.4	386.0	384.8	369.3	361.5	344.7	342.1	340.9
75°	303.4	307.3	307.3	304.7	295.7	291.8	275.0	267.3	247.9	240.1	238.9
77.5°	179.5	183.3	188.5	189.8	188.5	188.5	173.0	164.0	144.6	134.3	131.7
80°	109.7	112.3	114.9	118.8	113.6	109.7	95.5	86.5	77.5	71.0	69.7
82.5°	71.0	73.6	74.9	77.5	74.9	69.7	58.1	52.9	46.5	41.3	40.0
85°	40.0	41.3	43.9	43.9	40.0	36.2	29.7	25.8	21.9	19.4	19.4
87.5°	14.2	14.2	14.2	15.5	12.9	11.6	7.7	5.2	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)