

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: P638520

Luminaire Tested: GWS-SA4F-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638520
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-SA4F-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25521.4 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

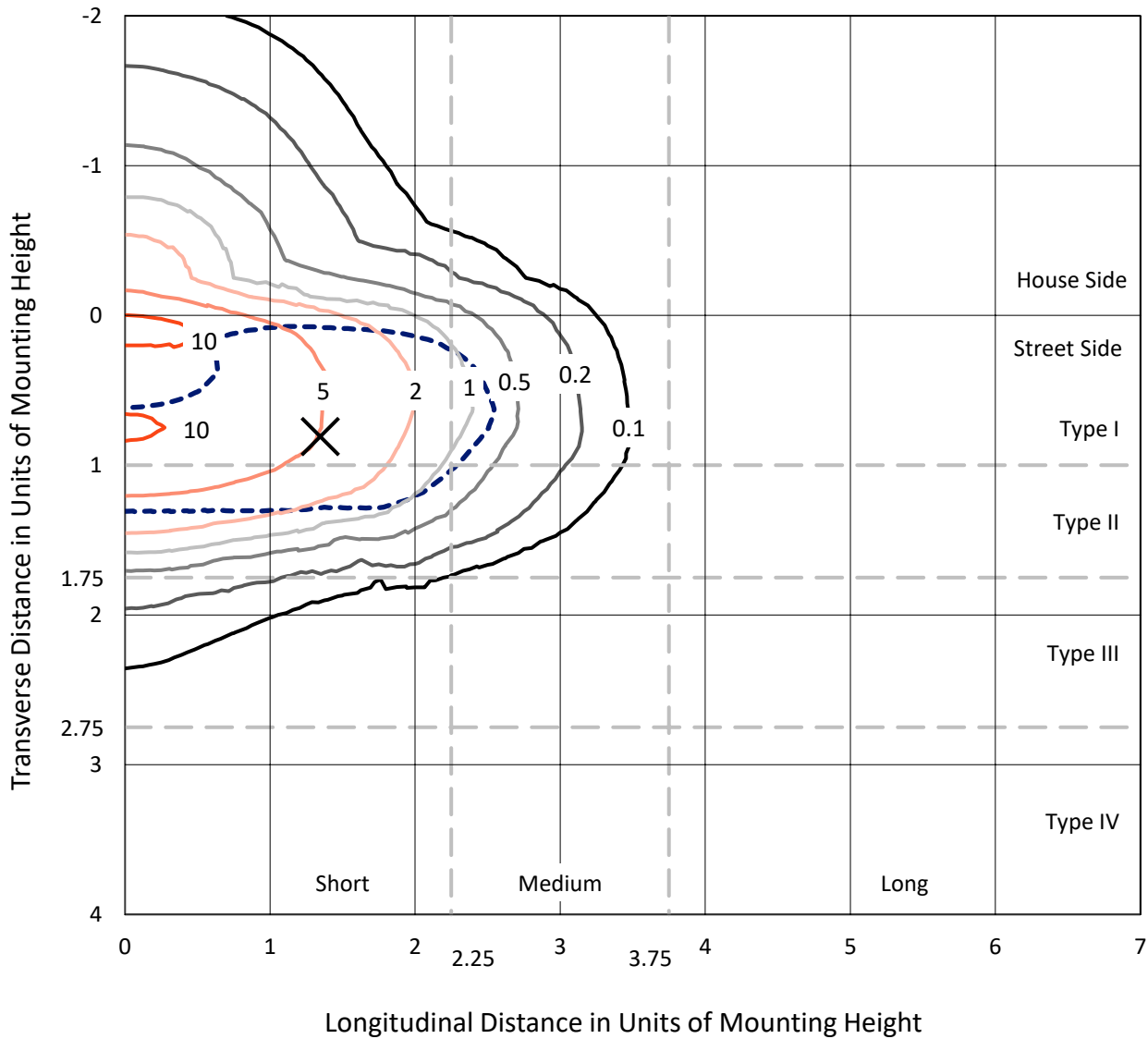
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

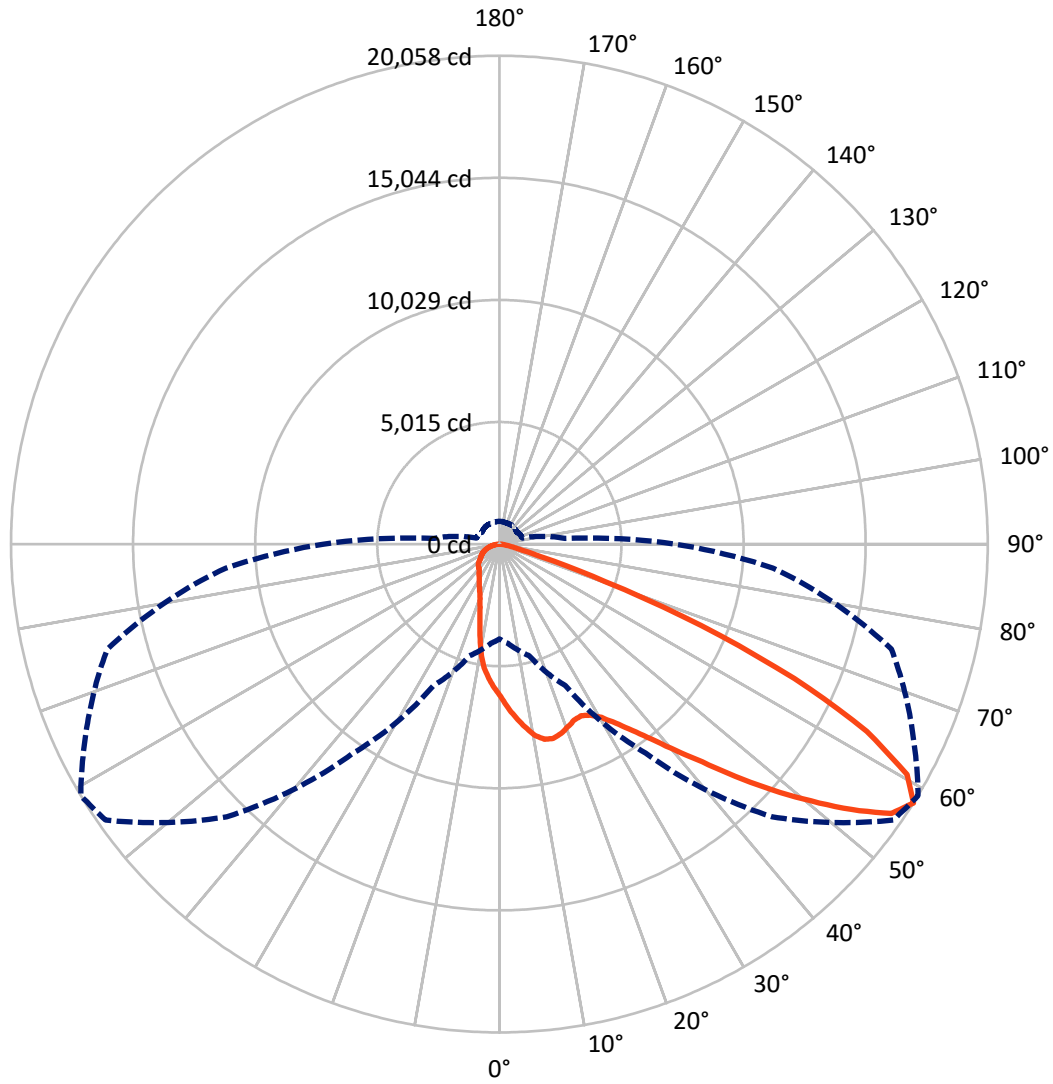
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	3960.8	0.0	3960.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	21560.6	0.0	21560.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	25521.4	0.0	25521.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.7	2.3
10°-20°	1474.1	5.8
20°-30°	2389.5	9.4
30°-40°	3843.8	15.1
40°-50°	5969.0	23.4
50°-60°	6429.5	25.2
60°-70°	3731.4	14.6
70°-80°	974.1	3.8
80°-90°	128.3	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°	25521.4	100.0
0°-180°	25521.4	100.0

Coefficient of Utilization



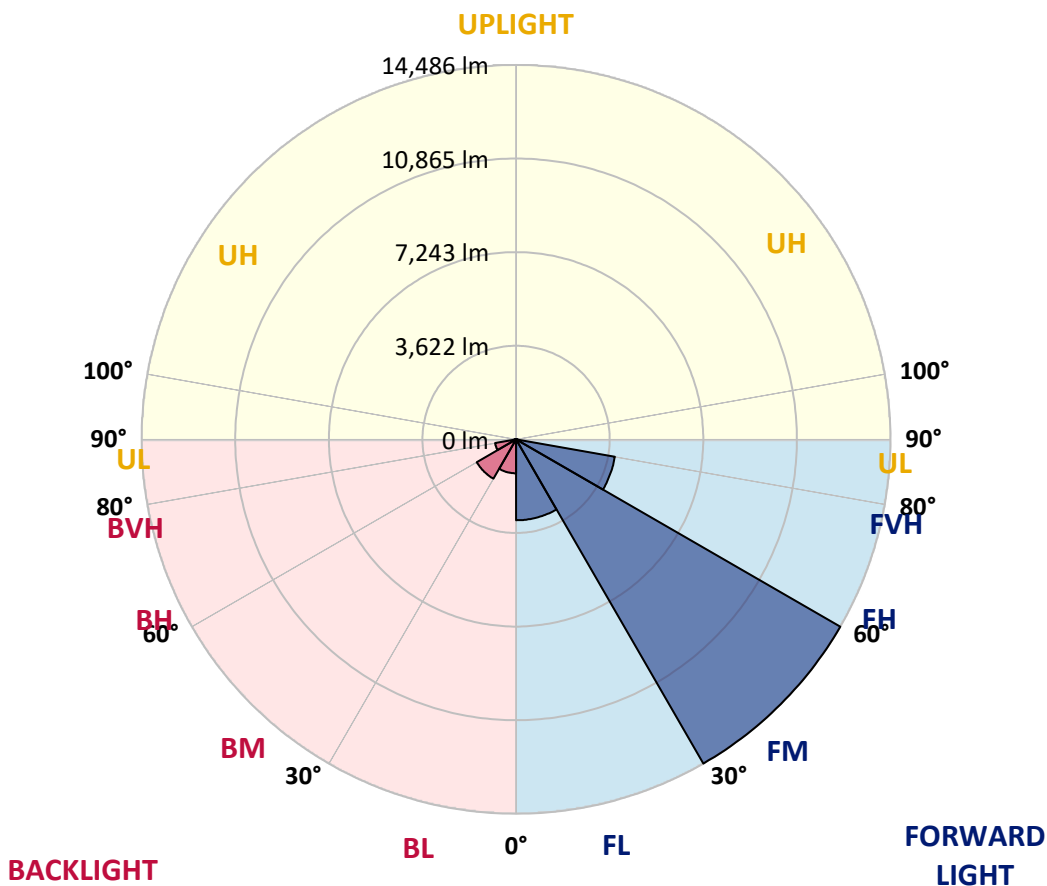
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3131.2	12.3			
FM (30°-60°)	14486.2	56.8			
FH (60°-80°)	3881.7	15.2			G2/5000
FVH (80°-90°)	61.4	0.2			G1/100
BL (0°-30°)	1314.0	5.1	B3/2500		
BM (30°-60°)	1756.1	6.9	B2/2500		
BH (60°-80°)	823.8	3.2	B2/1000		G2/1000
BVH (80°-90°)	66.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		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°	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0
2.5°	7105.8	7046.5	7087.9	7014.2	6983.7	6902.8	6798.6	6728.5	6620.7	6480.6	6358.4
5°	7811.9	7770.6	7779.6	7700.5	7630.5	7495.7	7281.9	7163.3	6980.1	6698.0	6435.7
7.5°	7790.4	7838.9	7865.8	7934.1	7953.9	7941.3	7749.0	7583.8	7382.5	6958.5	6563.2
10°	6983.7	7075.3	7157.9	7391.5	7675.4	8034.7	8079.6	7980.8	7777.8	7290.9	6716.0
12.5°	6105.1	6175.2	6248.8	6529.1	6963.9	7682.6	8169.5	8230.6	8149.7	7619.7	6888.4
15°	5673.9	5706.2	5776.3	5961.4	6308.1	7105.8	8013.2	8280.9	8426.4	7968.2	7082.5
17.5°	5655.9	5670.3	5704.4	5803.2	6044.0	6660.3	7731.1	8180.2	8643.8	8336.6	7308.9
20°	6027.8	5990.1	5968.5	5966.7	6085.3	6511.1	7458.0	8018.5	8746.2	8713.9	7551.4
22.5°	6543.5	6556.1	6509.3	6394.4	6380.0	6617.1	7321.4	7855.0	8776.7	9048.0	7776.0
25°	7274.7	7337.6	7199.3	6980.1	6872.3	6924.4	7405.9	7804.7	8773.1	9326.5	7916.1
27.5°	8128.1	8176.7	8036.5	7749.0	7526.3	7400.5	7657.4	7953.9	8803.7	9567.3	8000.6
30°	9100.1	9116.3	8924.1	8622.2	8297.0	8027.5	8076.0	8261.1	8960.0	9883.5	8099.4
32.5°	10287.7	10356.0	10065.0	9587.0	9132.5	8787.5	8638.4	8757.0	9297.8	10257.2	8252.1
35°	11795.1	11818.5	11448.4	10763.9	10120.7	9642.7	9330.1	9393.0	9811.6	10780.0	8482.1
37.5°	13216.3	13239.7	12846.2	12210.2	11290.3	10636.3	10183.5	10154.8	10469.2	11518.5	8857.6
40°	14118.2	14184.7	14008.6	13609.8	12731.2	11849.0	11234.6	11135.8	11331.6	12422.2	9380.4
42.5°	14603.3	14632.1	14628.5	14680.6	14157.8	13281.0	12420.4	12222.8	12353.9	13397.8	9908.6
45°	14606.9	14678.8	14871.0	15372.3	15395.7	14849.5	13918.8	13609.8	13489.4	14380.6	10460.2
47.5°	13953.0	14030.2	14558.4	15544.8	16272.5	16396.4	15713.7	15093.8	14587.2	15226.8	10913.0
50°	11973.0	12167.1	13173.2	14917.8	16444.9	17636.1	17425.9	16585.1	15562.8	15880.8	11196.9
52.5°	10253.6	10246.4	10866.3	13146.2	15724.5	18182.3	19082.4	18119.4	16527.6	16295.8	11268.7
55°	7508.3	7549.6	8183.8	10054.2	13802.0	17654.1	19993.4	19531.6	17634.3	16516.8	11240.0
57.5°	3893.4	4098.2	4748.6	6415.9	10487.2	15835.9	19750.8	20058.0	18759.0	16673.1	11277.7
60°	1967.4	1927.8	2161.4	3063.3	6076.3	12368.3	18256.0	19235.2	18962.1	16795.3	11301.1
62.5°	1313.4	1302.6	1237.9	1419.4	2483.0	7325.0	15562.8	16935.4	17551.7	16507.8	11002.8
65°	1137.3	1115.7	997.2	990.0	1205.6	3038.2	11407.1	13313.3	14506.3	15230.4	10289.5
67.5°	1024.1	991.8	871.4	812.1	866.0	1334.9	6428.5	8929.5	10711.8	12880.3	8726.4
70°	914.5	898.3	778.0	691.7	686.3	813.9	2368.0	4608.5	6554.3	8787.5	6380.0
72.5°	819.3	790.5	688.1	605.5	564.2	576.7	1027.7	1775.1	3392.1	5481.6	3816.1
75°	709.7	688.1	598.3	515.6	465.3	422.2	627.0	821.1	1546.9	2605.2	1802.1
77.5°	548.0	533.6	472.5	409.6	380.9	314.4	380.9	517.4	715.1	1097.8	937.9
80°	318.0	327.0	352.1	319.8	280.3	224.6	247.9	298.2	429.4	594.7	531.8
82.5°	159.9	170.7	228.2	185.1	167.1	131.2	147.3	176.1	224.6	328.8	208.4
85°	12.6	12.6	41.3	46.7	57.5	46.7	59.3	71.9	102.4	131.2	70.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	9.0	16.2	30.5	19.8
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°	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0	6265.0
2.5°	6275.8	6184.1	6074.5	5984.7	5846.4	5772.7	5679.3	5564.3	5517.6	5496.0	5483.4
5°	6288.4	6126.6	5893.1	5677.5	5438.5	5249.9	5039.7	4820.5	4694.7	4664.2	4642.6
7.5°	6335.1	6108.7	5736.8	5381.0	4937.3	4525.8	4125.2	3728.1	3525.1	3447.8	3440.6
10°	6399.7	6101.5	5578.7	4987.6	4238.3	3588.0	3119.0	2808.2	2677.0	2633.9	2619.5
12.5°	6480.6	6096.1	5370.3	4441.4	3431.6	2817.2	2549.5	2499.2	2517.1	2513.5	2513.5
15°	6583.0	6103.3	5118.7	3823.3	2775.9	2445.3	2450.7	2510.0	2565.6	2574.6	2574.6
17.5°	6694.4	6096.1	4754.0	3203.5	2382.4	2357.2	2439.9	2522.5	2572.8	2580.0	2580.0
20°	6814.8	6062.0	4294.0	2619.5	2209.9	2301.5	2391.4	2456.0	2486.6	2493.8	2493.8
22.5°	6886.6	5964.9	3794.6	2217.1	2100.3	2213.5	2272.8	2339.3	2342.9	2285.4	2283.6
25°	6875.9	5783.5	3225.0	1958.4	1983.5	2082.3	2157.8	2111.1	2053.6	2021.3	2015.9
27.5°	6807.6	5510.4	2644.7	1762.5	1845.2	1956.6	1933.2	1893.7	1879.3	1843.4	1839.8
30°	6721.3	5174.4	2123.7	1609.8	1701.4	1803.9	1767.9	1764.3	1750.0	1710.4	1710.4
32.5°	6638.7	4827.7	1730.2	1496.6	1609.8	1617.0	1667.3	1670.9	1663.7	1595.4	1588.3
35°	6615.3	4480.9	1464.3	1406.8	1520.0	1516.4	1588.3	1586.5	1462.5	1367.3	1365.5
37.5°	6685.4	4128.8	1306.2	1333.1	1396.0	1442.7	1500.2	1396.0	1354.7	1297.2	1293.6
40°	6834.5	3803.6	1225.3	1290.0	1317.0	1385.2	1295.4	1302.6	1291.8	1248.7	1243.3
42.5°	7032.2	3526.9	1180.4	1275.6	1272.0	1290.0	1191.2	1219.9	1236.1	1203.8	1198.4
45°	7222.6	3286.1	1157.1	1221.7	1239.7	1135.5	1115.7	1142.7	1167.8	1155.3	1149.9
47.5°	7362.8	3077.7	1144.5	1148.1	1198.4	1083.4	1051.1	1063.6	1094.2	1099.6	1097.8
50°	7405.9	2899.8	1130.1	1087.0	1076.2	1031.3	1006.1	1002.5	1038.5	1063.6	1067.2
52.5°	7323.2	2741.7	1092.4	1033.1	981.0	988.2	979.2	961.2	997.2	1031.3	1034.9
55°	7201.1	2651.9	1033.1	981.0	919.9	948.6	952.2	936.1	959.4	982.8	982.8
57.5°	7210.0	2704.0	975.6	932.5	866.0	903.7	923.5	916.3	916.3	934.3	936.1
60°	7269.3	2779.5	937.9	871.4	812.1	851.6	896.5	889.4	873.2	896.5	896.5
62.5°	7098.6	2678.8	912.7	812.1	754.6	801.3	855.2	851.6	833.7	871.4	875.0
65°	6595.6	2409.3	884.0	738.4	697.1	751.0	797.7	810.3	794.1	844.4	853.4
67.5°	5528.4	2026.6	828.3	668.4	639.6	689.9	734.8	752.8	740.2	799.5	806.7
70°	4121.6	1640.4	740.2	591.1	569.5	614.5	655.8	663.0	664.8	734.8	742.0
72.5°	2628.5	1275.6	623.4	504.9	488.7	522.8	553.4	582.1	594.7	661.2	659.4
75°	1466.1	948.6	501.3	427.6	398.9	425.8	461.7	495.9	531.8	628.8	639.6
77.5°	844.4	666.6	397.1	343.2	309.0	337.8	368.3	416.8	524.6	609.1	598.3
80°	476.1	433.0	300.0	251.5	230.0	251.5	274.9	366.5	413.2	449.2	454.6
82.5°	222.8	242.6	204.8	154.5	154.5	168.9	190.4	283.9	312.6	255.1	222.8
85°	80.9	109.6	100.6	79.1	70.1	68.3	118.6	161.7	100.6	89.8	77.3
87.5°	21.6	30.5	28.7	19.8	10.8	9.0	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)